

PART 1 MICROSCOPES FOR EDUCATION

PART 2 MICROSCOPES FOR LIFE SCIENCE

PART 3 MICROSCOPES FOR INDUSTRY



contents

euromex **MICROSCOPE COLLECTION** 2020

PART 1			
	LIFE SCIENCE biological microscopes	4	
PART 2	LIFE SCIENCE fluorescence microscopes	5	
PA	LIFE SCIENCE stereo microscopes	6	
	LIFE SCIENCE	7	
	digital solutions		
	digital solutions INDUSTRY stereo microscopes	8	
PART 3	digital solutions INDUSTRY stereo microscopes INDUSTRY materials science microscopes	8	
PART 3	INDUSTRY stereo microscopes	8	
OTHER PART 3	INDUSTRY stereo microscopes INDUSTRY materials science microscopes INDUSTRY	8 9	



about

euromex

LIFE SCIENCE | BIOLOGICAL MICROSCOPES iScope • bScope • Delphi-X Observer • Oxion BioBlue.Lab • Oxion Inverso • Delphi-X Inverso

LIFE SCIENCE | FLUORESCENCE MICROSCOPES iScope • bScope • Delphi-X Observer • Oxion • Oxion Inverso Delphi-X Inverso • LED light sources (fluorescence) • Fluorescence filter sets

LIFE SCIENCE | STEREO MICROSCOPES NexiusZoom (EVO) • StereoBlue • DZ series Z series • P series

LIFE SCIENCE | DIGITAL SOLUTIONS Digital microscope • MacroZoom • WiFi camera • USB cameras HD cameras • Cooled cameras • Tablet camera • Software • Adapters

ACCESSORIES | FOR MICROSCOPY Illumination solutions • Preparation accessories • Dissection kits Microscope prepared slides • Disposables • Stains

Magnifiers & measuring microscopes • Refractometers Polarimeters • Spectroscopes • Pathology Scanner

OTHER OPTICAL PRODUCTS

Euromex Microscopen bv is a leading manufacturer of microscopes and other optical instruments. Founded in 1966. Euromex has become a world-class supplier of biological, stereo and metallurgical microscopes

The corporate office is based in Arnhem, The Netherlands. A facility with a 2,000 m² conditioned logistics warehouse, an opto-mechanical workshop, an R&D department and a high-level quality control department

Around the world, Euromex operates in more than 120 countries through distributors, resellers and agents. A wide variety of customers such as schools and educational institutes, clinical and research laboratories and a broad range of industrial customers are using Euromex microscopes

Euromex Microscopen by is a subsidiary of Euromex Optics Group bv, a group holding company with active subsidiaries in the field of optical instruments and high level optical and opto-mechanical components

The broad product offering of Euromex can be found in this grand catalog and online at www.euromex.com

Physix Photonics by is also a subsidiary of the Euromex Optics Group. Physix manufactures optical components and optical assemblies for OEM customers. The offering varies from plan optics, curved optics, specials optics to optical coatings. Detailed information about Physix Photonics can be found on www.physix.com

choose the right microscope

We have made a guide to help you find the right microscope for your specific application. A list of recommended models for most common applications in education, life science and industry can simplify your selection

At the end of the catalog you'll also find an index page, listing the products featuring in this catalog alphabetically

SEE PAGE 398

SEE PAGE 406

6

life science

biological microscopes



biological microscopes



Euromex offers a wide range of life science microscopes that are used by researchers and biologists worldwide

On the next pages you will find details about our different models and we will get you introduced to new technologies in microscopy such as the iCare sensor, CSS system and new LED technology, which brings Euromex users to the next level of microscopy

ISCOPE • PAGE 108

BSCOPE • PAGE 118

DELPHI-X OBSERVER • PAGE 126

OXION • PAGE 136

BIOBLUE.LAB • PAGE 142

OXION INVERSO • PAGE 146

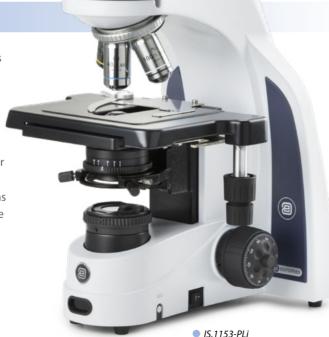
DELPHI-X INVERSO • PAGE 152



iScope®

The iScope® is available in various configurations suitable for Life and Biomedical Sciences, high schools, universities but also for routine medical applications

Besides the brightfield contrast method, configurations for phase contrast, cardioid mirror darkfield, basic polarization and several epiillumination sources for fluorescence applications can be used. iScope® models with multiheads are also available for teaching purposes





















IS.1152-PLi 407 (h) x 210 (w) x 255 mm (d) | 9.0 kg

HIGHLIGHTS

- EWF 10x/22 mm and EWF 10x/20 mm eyepieces
- Binocular and trinocular models
- Smart Light Control (SLC) system available
- Multihead and face-to-face dual head systems
- Optional tilting head
- Quintuple reversed nosepiece
- E-plan, plan and plan phase objectives
- E-plan, plan and plan phase IOS objectives
- 156 x 138 mm stage
- 187/230 x 140 mm rackless stage
- Cardioid mirror darkfield condenser with 5 W NeoLED™ illumination
- 3 W NeoLED™ Köhler illumination
- iCare sensor for energy saving
- CSS Cable Storage System
- 10 Years warranty

SPECIFICATIONS

EYEPIECES

 Extended plan wide field EWF 10x/20 mm eyepieces with 20 mm field of view and adjustable diopter on the left eyepiece for non-infinity corrected systems (Ø 23.2 mm tube)

iScope® tilting head

Extended plan wide field EWF 10x/22 mm eyepieces with 22 mm field of view and adjustable diopter on both eyepieces for infinity corrected IOS plan and plan phase systems and adjustable diopter on the left tube for EPLi systems (Ø 30 mm tube)

HEAD

Binocular and trinocular Siedentopf type heads with 30° inclined tubes. Interpupillary distance from 48 to 76 mm. The trinocular head of the plan infinity corrected models (IS.1153-PLi) has an optical path selector (100:0 / 50:50) and \pm 5 diopter adjustments on both Ø 30 mm tubes. The trinocular head of the E-plan infinity corrected models (IS.1153-EPLi) has a fixed built-in beam splitter (50:50) and \pm 5 diopter adjustment on the Ø 30 mm left tube. The trinocular head of the E-plan finite models (IS.1153-EPL) has a fixed built-in 50:50 beam splitter and one \pm 5 diopter adjustment on the Ø 23.2 mm left tube. A unique rotating

system allows the ergonomic positioning of both tubes in a high (431 mm) and in a low position (397 mm). The trinocular head comes with a Ø 23.2 mm photo port

ERGONOMIC TILTING HEAD

Optional ergonomic 5° to 35° tilting head supplied with EWF 10x/22 mm eyepieces, interpupillary distance 48-75 mm and optional photo attachment with standard Ø 23.2 mm tube (only infinity corrected models)

To order an iScope® with tilting head use reference IS.1158-xxx To order an iScope® with tilting head and photo tube attachment use reference IS.1159-xxx

FACE-TO-FACE DUAL HEAD SYSTEM

The iScope® models now can also be equipped with a faceto-face trinocular head for two users allowing simultaneous observation. Supplied with 30° inclined tubes and plan or E-plan 4x, 10x, S40, S100x oil immersion infinity corrected IOS objectives. The central attachment is equipped with a joystick to move a green and red laser pointer across the entire field of views of the two heads. The trinocular head is supplied with extended wide field EWF 10x/22 mm eyepieces and the

second binocular head is supplied with extended wide field EWF 10x/20 mm evepieces. (Order reference: IS.1154-PLi)

MULTIHEAD SYSTEM

The iScope® can be extended with a unique multihead system for in total two, three or five heads, allowing simultaneous observation of specimens

The central attachment is equipped with a joystick to move a green and red laser pointer across the entire field of view of all heads. Configurations with one, two or four additional viewing binocular heads, 30° inclined tubes and plan 4x, 10x, S40x, S100x oil immersion infinity corrected IOS objectives. All heads are equipped with extended wide field plan EWF 10x/22 mm eyepieces

(references: IS.1156-PLi-x, x = total number of heads)

OBJECTIVES

E-plan EPL	4x/0.10	10x/0.25	20x/0.40*	S40x/0.65		S100x/1.25 oil
E-plan EPLi IOS	4x/0.10	10x/0.25		S40x/0.65		S100x/1.25 oil
Plan PLi IOS	4x/0.10	10x/0.25	20x/0.40*	S40x/0.65	S60x/0.85*	S100x/1.25 oil
Plan phase PLPH		10x/0.25	20x/0.40	S40x/0.65		S100x/1.25 oil
Plan phase PLPHi IOS		10x/0.25	20x/0.40	S40x/0.65		S100x/1.25 oil

All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

NOSEPIECE

Revolving quintuple reversed nosepiece for max. 5 objectives

STAGE

The iScope® can be equipped with three types of stages:

- 156 x 138 mm stage equipped with integrated 79 x 52 mm X-Y mechanical stage
- 187/230 x 140 mm rackless stage equipped with double slide holder and integrated 79 x 52 mm X-Y mechanical stage. The iScope® rackless stage has no protruding parts, enables more smooth movements and is safer
- 220 x 157 mm ceramic stage with integrated 75 x 50 mm X-Y mechanical stage. The ceramic coating protects the stage effectively against marks and scratches. The surface also ensures stray light not to be reflected from the stage into the objective

The iScope® can be supplied with a heating stage which can be set up to 50° Celsius by a PID temperature controller. Only available with newly purchased microscopes. Higher temperatures can be achieved on special request

CONDENSER FOR BRIGHTFIELD

The standard height adjustable Abbe N.A. 1.25 condenser for brightfield accepts sliders with phase annuli suitable for plan phase 10x/20x or S40x/S100x oil immersion IOS objectives for economical phase contrast. With magnification indication. A slider with a simple dark stop for darkfield up to 400x magnification is also available

CONDENSER FOR ZERNIKE PHASE CONTRAST

An optional height adjustable Zernike NA. 1.25 phase contrast disc condenser with plan phase 10/20/S40x and S100x oil immersion objectives and darkfield stop position for darkfield contrast up to 400x magnification. Supplied with alignment telescope and green filter

CONDENSER FOR DARKFIELD

A state-of-the-art condenser equipped with reflective cardioid mirrors, a high powered 5 W LED and a S100x objective with built-in iris diaphragm enable a real 1000x magnification darkfield solution. By using IS.9150 and 86.521 an existing brightfield microscope can be upgraded to darkfield

FOCUSING

Coaxial coarse and fine adjustments, 200 graduations, 1 µm per graduation, 200 µm per rotation, total travel range is approximately 24 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control

ILLUMINATION

3 W adjustable Köhler NeoLED™ diascopic illumination with internal 100-240 V power supply. The innovative NeoLED™ design offers larger apertures, allowing the optical system of the iScope® microscope to produce images at higher resolutions, very close to the theoretical diffraction limit of the optics. Other benefits of the NeoLED™ is the low energy consumption, no heating and a long operating life span. The Köhler illumination on models with IOS plan and plan phase infinity corrected system provides high contrast and a maximum achievable resolving power of the optics. Also available for other models as option

SMART LIGHT CONTROL SYSTEM

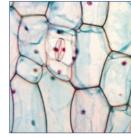
- · The Smart Light Control (SLC) automatically memorises the last used illumination intensity brightness for each individual objective. Simply rotate the nosepiece to the next objective and the SLC will instantly adjust the illumination intensity to your desired level
- Light intensity can be locked to stop intensity changing by simply pressing the control button twice
- · The LCD screen at the front of the microscope informs the user of the magnification and light intensity settings of the microscope, as well as the sleep and locking modes when activated
- Push the button once to enter/leave sleep mode and push the button twice to enter/leave lock mode

ICARE SENSOR

The unique iCare Sensor is developed to avoid unnecessary loss of energy. The illumination of the microscope automatically switches off shortly after microscopists step away from their position







NeoLED™

CSS - CABLE STORAGE SYSTEM

iScope® allows users to easily insert the power cable into the back of the instrument, which enables easy storage. The integrated carrying grip at the back of the microscope ensures safe transportation of the microscope

PACKAGE CONTENT

Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil for models with S100x objective. Phase contrast models are supplied with green filter and alignment telescope. All packed in polystyrene boxes



Check out the product video on YouTube and learn more about this microscope. YouTube channel:







MODELS	Binocular	Trinocular	Phase contrast	EWF 10x20 mm	E-plan objectives	Plan phase objectives	Mechanical stage	iCare Sensor
IS.1152-EPL	•			•	•		•	•
IS.1153-EPL		•		•	•		•	•
IS.1152-PLPH	•		•	•		•	•	•
IS.1153-PLPH		•	•	•		•	•	•

ISCOPE® FOR LIFE SCIENCE (INFINITY MODELS)

MODELS	Bino	Trino	Phase contrast	EWF 10x22 mm	E-plan IOS objectives	Plan IOS objectives	Plan phase IOS objectives	Mechanical rackless stage	iCare Sensor	Köhler LED
IS.1152-EPLi				•	•			•	•	
IS.1153-EPLi				•	•			•		
IS.1152-PLi				• *		•		•	•	•
IS.1153-PLi				•*		•		•		•
IS.1152-PLPHi				• *			•	•		•
IS.1153-PLPHi				• *			•	•	•	•

^{*} Two tubes with diopter adjustments

ISCOPE® FOR LIFE SCIENCE (FACE-TO-FACE DUAL HEAD SYSTEM)

MODELS	Total users	Binocular EWF 10x/20 mm	Trinocular EWF 10x/20 mm	E-plan IOS 4x/10x/ 40x/100x objectives	Plan IOS 4x/10x/ 40x/100x objectives	Mechanical rackless stage	iCare sensor	Köhler LED
IS.1154-PLi	2	2x			•	•	•	•
IS.1154-EPLi	2	2x		•		•	•	
IS.1154-PLi/T	2	1x	1x		•	•	•	•
IS.1154-EPLi/T	2	1x	1x	•		•	•	

ISCOPE® FOR LIFE SCIENCE (INFINITY - MULTIHEAD SYSTEMS)

MODELS	Total users	Binocular	Trinocular	EWF 10x22 mm	Plan IOS objectives	Mechanical rackless stage	iCare sensor	Köhler LED
IS.1156-PLi2	2	1x	•	•	•	•	•	•
IS.1156-PLi3	3	2x	•	•	•	•	•	•
IS.1156-PLi5	5	4x	•	•	•	•		•
IS.1156-PLi9	9	8	•	•	•	•	•	•



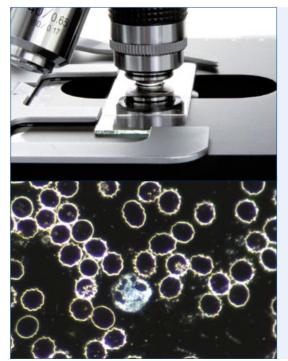
ISCOPE® FOR LIFE SCIENCE (INFINITY - ERGONOMIC TILTING HEAD)

MODELS	Bino	Photo port	Phase contrast	EWF 10x22 mm	E-plan IOS objective	Plan IOS objectives	Plan phase IOS objectives	Mechanical rackless stage	iCare Sensor	Köhler LED
IS.1158-EPLi	•			•	•			•	•	
IS.1159-EPLi		•						•		
IS.1158-PLi	•			•		•		•	•	
IS.1159-PLi		•				•		•		
IS.1158-PLPHi	•			•			•	•	•	
IS.1159-PLPHi		•		•			•	•	•	

ISCOPE® FOR LIFE SCIENCE (DARKFIELD CONTRAST APPLICATION)

MODELS	Trinocular	Darkfield	EWF 10x20 mm	EWF 10x22 mm	E-plan objective	Plan IOS objectives	Mechanical rackless stage	iCare sensor	Köhler LED
IS.1153-PLi/DF	•	•		•		•	•	•	•
IS.1153-PLi/DFi	•					•	•		•
IS.1153-EPL/DF	•	•	•					•	

Models for darkfield observation IS.1152-PLi/DF and IS.1153-PLi/DF are supplied with a state-of-the-art condenser equipped with reflective cardioid mirrors and a high powered 5 W LED. Together with a \$100x objective with built-in iris diaphragm real 1000x magnification darkfield solution can be achieved. All other specifications are identical to models IS.1152-PLi and IS.1153-PLi



DARKFIELD

Darkfield contrast is used in particular for unstained samples. The produced image has the appearance of a dark, almost black background with highlighted bright objects on it, producing very recognizable, often even called spectacular images. These objects, because they are unstained, are hard to see with brightfield contrast. The applications are mostly biological samples, smears from tissue culture or water-borne, single-celled organisms

In the past darkfield microscopy was limited due to low light levels. Euromex has overcome this issue by developing very strong illumination methods, without causing damage to the samples. A 5 W build in high power LED is used to power the especially designed cardioidshaped lens condenser system. Combined with a special 100x objective with built-in iris diaphragm for extra contrast this system is unique in its class

ACCESSORIES AND SPARE PARTS

EYEPIECES (23.2 MM)

IS.6010	EWF 10x/20 mm eyepiece (Ø 23.2 mm tube)	IS.7700	Plan PLPH S100x/1.25 phase contrast objective.
IS.6010-P	EWF 10x/20 mm eyepiece with pointer		WD 0.13 mm
	(Ø 23.2 mm tube)		
IS.6010-C	EWF 10x/20 mm eyepiece with crosshairs	IS.8804	E-plan EPLi 4x/0.10 IOS infinity corrected
	(Ø 23.2 mm tube)		objective. WD 15.4 mm
IS.6010-CM	EWF 10x/20 mm eyepiece with 10/100	IS.8810	E-plan EPLi 10x/0.25 IOS infinity corrected
	micrometer and cross (Ø 23.2 mm tube)		objective. WD 5.8 mm
IS.6015	WF 15x/16 mm eyepiece (Ø 23.2 mm tube)	IS.8840	E-plan EPLi S40x/0.65 IOS infinity corrected
IS.6020	WF 20x/12 mm eyepiece (Ø 23.2 mm tube)		objective. WD 0.43 mm
IS.6099	Pair of eyecups, Ø 23.2 mm tube	IS.8800	E-plan EPLi S100x/1.25 IOS infinity corrected
			objective . WD 0.13 mm
EYEPIEC	ES (30 MM)		
IS.6210	EWF 10x/22 mm eyepiece (Ø 30mm tube)	IS.7202	Plan PLi 2x/0.05 IOS infinity corrected objective,
IS.6210-C	EWF 10x/22 mm eyepiece with crosshairs		WD 18.3 mm. Best to be used together with
	(Ø 30 mm tube)		swing-out condenser
IS.6210-P	EWF 10x/22 mm eyepiece with pointer	IS.7204	Plan PLi 4x/0.10 IOS infinity corrected objective.
	(Ø 30 mm tube)		WD 15.4 mm
IS.6210-CM	EWF 10x/22 mm eyepiece with 10/100	IS.7210	Plan PLi 10x/0.25 IOS infinity corrected
	micrometer and crosshairs (Ø 30 mm tube)		objective. WD 10 mm
IS.6212	WF 12.5x/17 mm eyepiece (Ø 30 mm tube)	IS.7220	Plan PLi 20x/0.40 IOS infinity corrected
IS.6212-W	WF 12.5x/17 mm eyepiece with Walton Beckett		objective. WD 5.1 mm
	reticle (Ø 30 mm tube)	IS.7240	Plan PLi S40x/0.65 IOS infinity corrected
IS.6215	WF 15x/16 mm eyepiece (Ø 30 mm tube)		objective. WD 0.54 mm
IS.6220	WF 20x/12 mm eyepiece (Ø 30 mm tube)	IS.7260	Plan PLi S60x/0.85 IOS infinity corrected
IS.6299	Pair of eyecups infinity models (Ø 30 mm tube)		objective. WD 0.14 mm
		IS.7200	Plan PLi S100x/1.25 IOS infinity corrected
OBJECTI	VES		objective. WD 0.13 mm
IS.7104	E-plan EPL 4x/0.10 objective. WD 15.2 mm	IS.7200-I	Plan Super Contrast PLi S100x/1.25 IOS infinity
IS.7110	E-plan EPL 10x/0.25 objective. WD 5.5 mm		corrected objective with built-in iris diaphragm.
IS.7120	E-plan EPL 20x/0.40 objective. WD 3.5 mm		WD 0.13 mm
IS.7140	E-plan EPL S40x/0.65 objective. WD 0.45 mm		
IS.7160	E-plan EPL S60x/0.85 objective. WD 0.19 mm	IS.7404	Plan Fluarex PLFi 4x/0.13 IOS infinity corrected
IS.7100	E-plan EPL S100x/1.25 objective. WD 0.13 mm		objective. 0.17 mm cover glass correction.
			WD 16.3 mm
IS.7710	Plan PLPH 10x/0.25 phase contrast objective.	IS.7410	Plan Fluarex PLFi 10x/0.30 IOS infinity corrected
	WD 12.2 mm		objective. 0.17 mm cover glass correction.
IS.7720	Plan PLPH 20x/0.40 phase contrast objective.		WD 12.4 mm
	WD 5 mm	IS.7420	Plan Fluarex PLFi 20x/0.50 IOS infinity corrected
IS.7740	Plan PLPH S40x/0.65 phase contrast objective.		objective. 0.17 mm cover glass correction.
	WD 0.37 mm		WD 1.5 mm

Plan Fluarex PLFi S40x/0.75 IOS infinity corrected	IS.9161	Phase contrast slider set with 20x and S100x
objective. 0.17 mm cover glass correction.		PLPH objectives and annuli for 20x/S100x
WD 0.35 mm		PLPH objectives
Plan Fluarex PLFi S100x/1,30 IOS infinity corrected	IS.9162	Phase contrast slider set with 10x and S40x PLPHi
objective. 0.17 mm cover glass correction.		IOS infinity corrected objectives and annuli for
WD 0.13 mm		10x/S40x PLPHi IOS infinity corrected objectives.
		Also suitable for optional 20x PLPHi infinity
Plan PLPHi 10x/0.25 phase contrast IOS infinity		corrected objective
corrected objective. WD 10.2 mm	IS.9163	Phase contrast slider set with 20x and S100x
Plan PLPHi 20x/0.40 phase contrast IOS infinity		PLPHi IOS infinity corrected objectives and
corrected objective. WD 5.1 mm		annuli for 20x/S100x PLPHi IOS infinity
Plan PLPHi S40x/0.65 phase contrast IOS infinity		corrected objectives
corrected objective. WD 0.5 mm		
Plan PLPHi S100x/1.25 phase contrast IOS infinity	MISCEL	LANEOUS
corrected objective. WD 0.13 mm	IS.9170	Slider with darkfield stop
	objective. 0.17 mm cover glass correction. WD 0.35 mm Plan Fluarex PLFi S100x/1,30 IOS infinity corrected objective. 0.17 mm cover glass correction. WD 0.13 mm Plan PLPHi 10x/0.25 phase contrast IOS infinity corrected objective. WD 10.2 mm Plan PLPHi 20x/0.40 phase contrast IOS infinity corrected objective. WD 5.1 mm Plan PLPHi S40x/0.65 phase contrast IOS infinity corrected objective. WD 0.5 mm Plan PLPHi S100x/1.25 phase contrast IOS infinity	objective. 0.17 mm cover glass correction. WD 0.35 mm Plan Fluarex PLFi S100x/1,30 IOS infinity corrected objective. 0.17 mm cover glass correction. WD 0.13 mm Plan PLPHi 10x/0.25 phase contrast IOS infinity corrected objective. WD 10.2 mm Plan PLPHi 20x/0.40 phase contrast IOS infinity corrected objective. WD 5.1 mm Plan PLPHi S40x/0.65 phase contrast IOS infinity corrected objective. WD 0.5 mm Plan PLPHi S100x/1.25 phase contrast IOS infinity MISCEL

CONDENSERS

IS.9102	Standard Abbe condenser 1.25 NA with slot for
	darkfield and phase contrast sliders
IS.9105	Swing-out 0.9/1.25 N.A. condenser
IS.9150	Cardiod darkfield condenser with integrated 5 W LED
	light source and external 100-240 V mains adapter. To
	be used with IS.7200-I

PHASE CONTRAST ATTACHMENTS

IS.9124 Zernike phase contrast set including rotating

	disc with PLPH 10/20/40/100, brightfield and
	darkfield position
IS.9127	Zernike phase contrast set including rotating
	disc with PLPH 10/20/40/100, brightfield and
	darkfield position
IS.9148	Alignment telescope for phase contrast,
	Ø 30 mm tube
IS.9149	Alignment telescope for phase contrast,
	Ø 23.2mm tube
IS.9160	Phase contrast slider set with 10x and S40x PLPH
	objectives and annuli for 10/S40x PLPH objectives.
	Also suitable for optional 20x PLPH objective

IS.9194	Slider with phase contrast annuli for S40x phase
	contrast objective
IS.9503	Large ceramic stage. Only with new microscope
	add /C suffix after iScope® model part number
IS.9880	Köhler attachment
IS.4300	Aluminum transport case for iScope®
AE.3684	Glass fuses 500 mA 250 V, 10 pieces
AE.5168-I	Heating stage series with controller,
	only with new microscopes
SL.5500	NeoLED™ replacement unit

POLARIZATION ATTACHMENTS

15	.9600	Polarization filter 45 mm for lamphouse
IS	5.9601	Polarization set: simple rotating polarizer
		for lamphouse and fixed polarizer mounted
		under head
IS	5.9626	Polarization filter for mounting under the head

FILTERS

[IS.9700	Blue filter 45 mm for lamphouse
IS.9702	Green filter 45 mm for lamphouse
IS.9704	Yellow filter 45 mm for lamphouse
IS.9706	White opaque filter 45 mm for lamphouse

CAMERA ACCESSORIES

IS.9800 Single photo tube attachment with one 23.2 mm tube for ergonomic tilting head of iScope® infinity systems AE.5130 Universal SLR adapter with built-in 2x lens for standard 23.2 mm tube. Needs T2 adapter AE.5025 T2 adapter for Nikon D SLR digital camera AE.5040 T2 adapter for Canon EOS SLR digital camera

DISPOSABLES

Microscope slides 76 x 26 mm, ground edges, 50 pieces per pack

PB.5157-W Microscope slides 76 x 26 mm, ground edges and frosted side white color, 50 pieces per pack

PB.5157-B Microscope slides 76 x 26 mm, ground edges and frosted side blue color, 50 pieces per pack

PB.5165 Cover glasses 18 x 18 mm, 0.13-0.17 mm, 100 pieces

PB.5168 Cover glasses 22 x 22 mm, 0.13-0.17 mm, 100 pieces

PB.5245 Lens cleaning paper, 100 sheets per pack

PB.5274 Isopropyl alcohol 99%, 200 ml

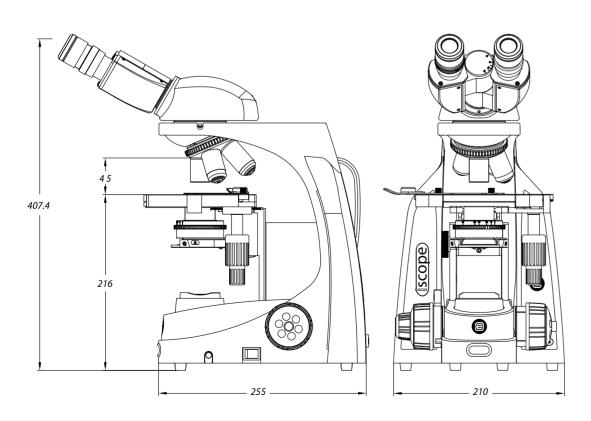
PB.5275 Cleaning kit: lens fluid, lint free lens tissue/paper, brush, air blower, cotton swabs

Immersion oil, 25 ml. Refraction index n = 1.482

PB.5276 Microscope maintenance and servicing kit, 16pcs: cleaning brush, 6 pcs screwdriver set, air blower, 3 pcs Allen key, 1.5, 2, 2.5 mm, lens cleaning fluid 20 ml, cleaning cloth 140 x 140 mm, 100 pcs lens tissue sheets, tube of maintenance grease, 10 ml bottle of oil, packed in a nice toolbox

WD = working distance

PB.5255







versatile and evolutive!

The well-equipped microscopes of the bScope[®] series are intensively used in universities, small and mid-sized laboratories and in veterinary applications

The design of the bScope® is both ergonomic and evolutive. Height adjustable eye tubes and low stage controls minimize fatigue during long working sessions and thus provide more comfort for microscopists. The robust, compact size of the bScope® and the Cable Storage System allow more working space, safer operation and enable easy storage























BINOCULAR: BS.1152-EPL / BS.1152-EPLi / BS.1152-PLi 409 (h) x 195 (w) x 235 mm (d) | 6.5 kg TRINOCULAR: BS.1153-EPL / BS.1153-EPLi / BS.1153-PLi

MONOCULAR: BS.1151-EPL / BS.1151-PL

459 (h) x 195 (w) x 235 mm (d) | 6.6 kg

BS.1153-EPLi



BS.1152-PLi

BS.1151-EPL

SPECIFICATIONS

EYEPIECE(S)

High wide field HWF 10x/20 mm secured eyepiece(s) with 20 mm field of view (Ø 23.2 mm tube). The eyepiece of monocular models is supplied with pointer

HEAD

The bScope® is available with a monocular head (45° inclined Ø 23.2 mm tube) or with binocular or trinocular heads equipped with a Siedentopf type head, 360° rotatable and equipped with 30° inclined Ø 23.2 mm tubes. Binocular and trinocular models have a diopter ± 5 adjustment on the left eyepiece. The interpupillary distance is adjustable between 48 to 76 mm. The models equipped with plan infinity corrected PLi objectives have a unique swiveling system of the eyepiece tubes for ergonomic positioning of the eyepieces in a high and in a low position. The trinocular head comes with a Ø 23.2 mm tube, ensuring maximum flexibility. The prisms inside the heads are designed to minimize the light absorption for perfect digital imaging. A unique rotating system allows the ergonomic positioning of both tubes in a high (431 mm) and in a low position (377 mm). Only for IOS models. Models with an integrated USB-2.0 camera are supplied with a 5.0 MP 1/2.5" CMOS sensor with a resolution of 2592 x 1944 pixels (see chapter 7)

HIGHLIGHTS

- Versatile and evolutive microscopes
- Monocular, binocular and trinocular models
- Digital models available
- HWF 10x/20 mm eyepieces
- Reversed ball-bearing quadruple or quintuple nosepiece with slot for polarization filter
- E-plan, plan, E-plan IOS and plan IOS objectives
- E-plan phase, E-plan phase IOS, plan phase IOS objectives
- Rackless integrated X-Y mechanical stage
- 3 W NeoLED™ adjustable illumination system
- Darkfield cardioid condenser with 5 W NeoLED™
- Integrated carrying grip
- Cable Storage System and anti-theft system
- 10 Years warranty

NOSEPIECE

Revolving and reversed ball-bearing quadruple or quintuple nosepiece

OBJECTIVES

The state-of-the-art production techniques and multi layer coatings used for the manufacturing of the bScope® objectives enable the bScope® to be used for the most demanding applications. World class spherical aberration correction and modern CNC and assembly technology ensure the perfect centering of the objectives

- Brightfield models: E-plan, plan, E-plan IOS infinity corrected, plan IOS infinity corrected 4x/0.10, 10x/0.25, 20x/0.40, S40x/0.65, S60x/0.85 and S100x/1.25 oil immersion objectives
- Phase contrast models: E-plan phase, E-plan phase IOS infinity corrected, plan phase IOS infinity corrected 10x/0.25, 20x/0.40, S40x/0.65 and S100x/1.25 oil immersion objectives

All S40x, S60x and S100x oil immersion objectives are spring loaded. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

FOCUSING

Double coaxial, low-positioned coarse and fine adjustments with 180 graduations. Precision 1.1 μm, 200 μm per rotation, total travel range is approximately 19 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustment is equipped with friction control

STAGE

The bScope® is equipped with a scratch resistant 152/197 x 131 mm stage with integrated 75 x 36 mm X-Y rackless mechanical stage, Vernier scale, soft-close removable specimen holder. The rackless stage has no protruding parts, enables more smooth movements and is safer in use. Lowpositioned X-Y control knobs prevent fatigue during long working sessions. The bScope® can be equipped with a heating stage which can be set up to 50° Celsius by a PID temperature controller. Only available with newly purchased microscopes

CONDENSER FOR BRIGHTFIELD

The standard height adjustable Abbe N.A. 1.25 condenser for brightfield comes with an iris diaphragm and swing-out filter holder

CONDENSER FOR ZERNIKE PHASE CONTRAST

The height adjustable Zernike NA. 1.25 phase contrast disc condenser comes with phase annuli for 10/20/S40x and S100x phase contrast objectives, an iris diaphragm, a swing-out filter holder and also a BF position for brightfield contrast. Phase contrast objectives exist in either EPL-PH, EPL-PHi or PL-PHi phase contrast versions. Supplied with alignment telescope and green filter

CONDENSER FOR SIMPLE PHASE CONTRAST

The height adjustable NA. 1.25 simple phase contrast condenser has a free slot for either a slider for 10/S40x phase contrast objectives or a slider for 20/S100x phase contrast objectives. The condenser has an iris diaphragm and filter holder. The condenser includes a BF position for brightfield contrast with an iris diaphragm and filter holder. Phase contrast objectives exist in either EPL-PH, EPL-PHi or PL-PHi versions. Supplied with alignment telescope and green filter

POLARIZATION

The bScope® has an integrated slot above the nosepiece for an optional polarization filter

NEOLED™ ILLUMINATION

The 3 W adjustable Köhler NeoLED™ diascopic illumination is powered by an internal 100-240 V power supply making it suitable for worldwide use. The innovative NeoLED™ design offers larger apertures, allowing the optical system of the bScope® microscope to produce images at higher resolutions, very close to the theoretical diffraction limit of the optics. Other benefits of the NeoLED™ is the low energy consumption, no heating and a long operating life span



Swing-out Abbe condenser 0.9/1.25 NA



Zernike phase contrast condenser with filter holder



Ergonomic carrying grip for easy transportation

KÖHLER ILLUMINATION

A Köhler illumination system ensures for all infinity corrected IOS models the highest possible contrast and the maximum achievable resolving power. It generates a uniform illumination of the sample and eliminates all interference from dust on lenses and side glare of the light source

The Köhler illumination is optional for non-IOS models

CORDLESS USE

The optional rechargeable batteries turn the bScope® into a cordless system

CSS - CABLE STORAGE SYSTEM

Allows users to easily stow away excess cable length into the back of the instrument during operation and to roll up the power cable for easy storage

CARRYING GRIP

The integrated carrying grip at the back of the microscope ensures safe transportation of the microscope

ANTI-THEFT SLOT

At the back of the microscope a Kensington Security Slot is placed, which can be used to secure the instrument from theft

PACKAGE CONTENT

Smart Styrofoam packaging ensures a low environmental footprint while maintaining maximum safety during transport. Supplied with power cord, dust cover, tools, a spare fuse, white filter, user manual and 5 ml immersion oil

Phase contrast models are supplied with green filter and alignment telescope. An optional aluminum case can be supplied



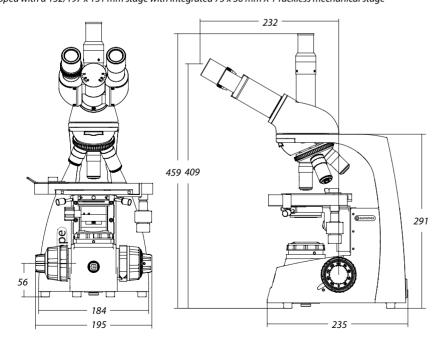
BSCOPE® FOR BRIGHTFIELD AND DARKFIELD *

MODELS	Mono	Bino	Trino	HWF 10x/20 mm eyepieces	 Quadruple nosepiece E-plan 4/10/S40/S100x	Quintuple nosepiece E-plan IOS 4/10/S40/S100x	Quintuple nosepiece plan IOS 4/10/S40/S100x	Köhler NeoLED™	Neo- LED™	2-position swiveling ergo head
BS.1151-EPL	•			•	•				•	
BS.1152-EPL					•					
BS.1153-EPL				•	•					
BS.1152-EPLi						•				•
BS.1153-EPLi				•		•				
BS.1151-PL	•									
BS.1152-PLi		•					•			•
BS.1153-PLi			•	•			•	•		

BSCOPE® FOR PHASE CONTRAST*

MODELS	Bino	Trino	HWF 10x/20 mm eyepieces	Quadruple nosepiece E-plan phase 10/20/ S40/S100x	Quintuple nosepiece E-plan phase IOS 10/20/S40/S100x	Quintuple nosepiece plan phase IOS 10/20/S40/S100x	Köhler NeoLED™	NeoLED™	2-position swiveling ergo head
BS.1152-EPLPH	•		•	•				•	
BS.1153-EPLPH		•	•	•				•	
BS.1152-EPLPHi					•		•		•
BS.1153-EPLPHi			•		•		•		•
BS.1152-PLPHi						•	•		•
BS.1153-PLPHi			•			•	•		•

^{*}All models can be supplied with three rechargeable AA batteries All models are equipped with a 152/197 x 131 mm stage with integrated 75 x 36 mm X-Y rackless mechanical stage



ACCESSORIES AND SPARE PARTS

EYEPIEC	ES		
BS.6010	HWF 10x/20 mm eyepiece, Ø 23.2 mm tube	BS.8204	E-plan EPLi 4x/0.10 IOS infinity corrected
BS.6010-P	HWF 10x/20 mm with pointer, Ø 23.2 mm tube		objective. WD 18.9 mm
BS.6010-C	HWF 10x/20 mm eyepiece with crosshairs,	BS.8210	E-plan EPLi 10x/0.25 IOS infinity corrected
	Ø 23.2 mm tube		objective. WD 5.95 mm
BS.6010-CN	∥ HWF 10x/20 mm eyepiece, Ø 23.2 mm tube	BS.8220	E-plan EPLi 20x/0.40 IOS infinity corrected
	with 10/100 micrometer and crosshairs		objective. WD 2.61 mm
BS.6012	WF 12.5x/14 mm eyepiece, Ø 23.2 mm tube	BS.8240	E-plan EPLi S40x/0.65 IOS infinity corrected
BS.6015	WF 15x/11 mm eyepiece, Ø 23.2 mm tube		objective. WD 0.78 mm
BS.6020	WF 20x/11 mm eyepiece, Ø 23.2 mm tube	BS.8200	E-plan EPLi S100x/1.25 IOS infinity corrected
BS.6099	Pair of eyecups		objective. WD 0.36 mm
OBJECT	IVES	BS.8404	Plan PLi 4x/0.10 IOS infinity corrected objective.
BS.7104	E-plan EPL 4x/0.10 objective. WD 37.0 mm		WD 21.0 mm
BS.7110	E-plan EPL 10x/0.25 objective. WD 6.61 mm	BS.8410	Plan PLi 10x/0.25 IOS infinity corrected objective.
BS.7120	E-plan EPL 20x/0.40 objective. WD 1.85 mm		WD 5.0 mm
BS.7140	E-plan EPL S40x/0.65 objective. WD 0.64 mm	BS.8420	Plan PLi 20x/0.40 IOS infinity corrected objective.
BS.7160	E-plan EPL S60x/0.85 objective. WD 0.20 mm		WD 8.8 mm
BS.7100	E-plan EPL S100x/1.25 objective. WD 0.19 mm	BS.8440	Plan PLi S40x/0.65 IOS infinity corrected
			objective. WD 0.66 mm
BS.7204	Plan PL 4x/0.10 objective. WD 17.9 mm	BS.8400	Plan PLi S100x/1.25 IOS infinity corrected
BS.7210	Plan PL 10x/0.25 objective. WD 8,8 mm		objective. WD 0.36 mm
BS.7220	Plan PL 20x/0.40 objective. WD 8,6 mm		
BS.7240	Plan PL S40x/0.65 objective. WD 0.56 mm	BS.8510	E-plan phase EPLPHi 10x/0.25 IOS infinity
BS.7260	Plan PL S60x/0.85 objective. WD 0.25 mm		corrected objective. WD 5.95 mm
BS.7200	Plan PL S100x/1.25 oil immersion objective.	BS.8520	E-plan phase EPLPHi 20x/0.40 IOS infinity
	WD 0.33 mm		corrected objective. WD 2.61 mm
		BS.8540	E-plan phase EPLPHi S40x/0.65 IOS infinity
BS.7510	E-plan phase EPLPH 10x/0.25 objective.		corrected objective. WD 0.76 mm
	WD 5.95 mm	BS.8500	E-plan phase EPLPHi S IOS infinity corrected
BS.7520	E-plan phase EPLPH 20x/0.40 objective. WD 2.61 mm		objective. WD 0.36 mm
BS.7540	E-plan phase EPLPH S40x/0.65 objective.	BS.8710	Plan phase PLPHi 10x/0.25 IOS infinity corrected
	WD 0.66 mm		objective. WD 5.00 mm
BS.7500	E-plan phase EPLPH S100x/1.25 objective.	BS.8720	Plan phase PLPHi 20x/0.40 IOS infinity corrected
	WD 0.36 mm		objective. WD 8.80 mm
		BS.8740	Plan phase PLPHi S40x/0.65 IOS infinity corrected
			objective. WD 0.66 mm
		BS.8700	Plan phase PLPHi S100x/1.25 IOS infinity
			corrected objective. WD 0.36 mm

WD = working distance

CONDENSERS

BS.9118

BS.9126

BS.9102 Abbe condenser 1,25 NA with slot for darkfield and phase contrast sliders BS.9170 Darkfield stop for BS.9102 condenser BS.9105 Swing-out Abbe condenser 0.9/1.25 NA

PHASE CONTRAST ATTACHMENTS

10/20/S40 and S100x oil phase contrast objectives, Zernike rotating condenser, telescope and green filter BS.9120 Zernike phase contrast kit with E-plan EPLPHi 10/20/S40 and S100x oil phase contrast IOS infinity corrected objectives, Zernike rotating condenser, telescope and green filter BS.9123 Zernike phase contrast kit with plan PLPH 10/20/

Zernike phase contrast kit with E-plan EPLPH

S40 and S100x oil phase contrast objectives, Zernike rotating condenser, telescope and green filter Zernike phase contrast kit with plan PLPHi 10/20/

S40 and S100x oil phase contrast IOS infinity corrected objectives, Zernike rotating condenser, telescope and green filter

BS.9148 Alignment telescope for bScope® IOS version with Ø 30 mm tubes

BS.9149 Alignment telescope for bScope® non IOS version with Ø 23.2 mm tubes

BS.9156 Phase contrast kit with Abbe condenser with slot for slider. E-plan EPLPH 10/S40x phase contrast objectives, slider with 10 and 40x annuli,

telescope and green filter

BS.9157 Phase contrast kit with Abbe condenser with slot for slider. E-plan EPLPH 20/S100x phase contrast

> objectives, slider with 20 and 100x annuli, telescope and green filter

BS.9158 Phase contrast kit with Abbe condenser with slot for slider. E-plan EPLPH i 10/S40x phase contrast

infinity corrected objectives, slider with 10 and

40x annuli, telescope and green filter

BS.9159 Phase contrast kit with Abbe condenser with slot for slider, E-plan EPLPHi 20/S100x phase contrast infinity corrected objectives, slider with 20 and 100x annuli, telescope and green filter

BS.9162 Phase contrast kit with Abbe condenser with slot for slider. Plan PLPH i 10/S40x phase contrast infinity corrected objectives, slider with 10 and 40x annuli, telescope and green filter

BS.9163 Phase contrast kit with Abbe condenser with slot for slider. Plan PLPHi 20/S100x phase contrast infinity corrected objectives, slider with 20 and 100x annuli, telescope and green filter

POLARIZATION ATTACHMENTS

BS.9660 Polarization kit: analyzer under head and polarizer on lamphouse BS.9647 Polarization polarizer Ø 16 mm for slider under bScope® head BS.9651 Polarization attachment for lamphouse of bScope® with 360° scale

MISCELLANEOUS

BS.9880 Köhler attachment BS.9900 Aluminum transport case BS.9993 NeoLED™ replacement unit AE.1370 Set of rechargeable batteries, three pieces

CAMERA ACCESSORIES

AE.5130 Universal Ø 23.2 mm tube adapter with built-in 2x lens for SLR photo camera with APS-C sensor. Needs T2 adapter AE.5025 T2 adapter for Nikon D SLR digital camera AE.5040 T2 adapter for Canon EOS SLR digital camera

DISPOSABLES

PB.5155 Microscope slides 76 x 26 mm, ground edges, 50 pieces per pack

PB.5157-W Microscope slides 76 x 26 mm, ground edges and frosted side white color, 50 pieces per pack

PB.5157-B Microscope slides 76 x 26 mm, ground edges and frosted side blue color, 50 pieces per pack

PB.5165 Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces

PB.5168 Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces

PB.5245 Lens cleaning paper, 100 sheets per pack

PB.5255 Immersion oil (25 ml), n = 1.482PB.5274 Isopropyl alcohol 99% (200 ml)

PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue/paper, brush, air blower, cotton swabs

PB.5276 Microscope maintenance and servicing kit, 16pcs: cleaning brush, 6 pcs screwdriver set, air blower,

> 3 pcs Allen key, 1.5, 2, 2.5 mm, lens cleaning fluid 20 ml, cleaning cloth 140 x 140 mm, 100 pcs lens

tissue sheets, tube of maintenance

grease, 10 ml bottle of oil, packed in a nice toolbox



BS.1153-PLPHi



life science applications. The outstanding optical performance of the Delphi-X Observer™ with 25 mm field of view and high numerical aperture of the plan 60 mm parfocal EIS objectives enable perfect observations, color rendering and high resolving power. This is the perfect microscope for anatomo-pathologists

























454 (h) x 260 (w) x 367 mm (d) | 18 kg 454 (h) x 260 (w) x 480 mm (d) | 18.5 kg

HIGHLIGHTS

- Trinocular model
- Sextuple reversed nosepiece with slot for DIC
- Super wide field SWF 10x/25mm eyepieces, Ø 30 mm tubes
- **Enhanced infinity corrected EIS optical system**
- Ergonomic tilting head
- 60 mm parfocal plan EIS objectives
- 60 mm parfocal plan semi-apochromatic **EIS** objectives
- M25 objective thread mounting
- 3 W NeoLED™ illumination
- 100 W halogen illumination
- Face-to-face dual head system
- Multihead systems
- Brightfield, darkfield, phase contrast
- Differential Interference Contrast (DIC)

SPECIFICATIONS

EYEPIECES

- · Super wide field SWF 10x/25 mm, Ø 30 mm tubes
- Extended wide field EWF 10x/22 mm, Ø 30 mm tubes

STANDARD HEAD

Siedentopf trinocular head with 30° inclined tubes. Interpupillary distance adjustable between 47 and 78 mm. The trinocular standard head has an optical path selector (100:0 / 80:20 / 0:100). Diopter ± 5 adjustments on both eyepieces

ERGONOMIC TILTING HEAD

Optional ergonomic 0° to 35° tilting trinocular head supplied with SWF 10x/25 mm eyepieces, interpupillary distance between 47-78 mm and photo tube, standard with a Ø 23.2 mm tube. The trinocular tilting head has an optical path selector (100:0 / 80:20 / 0:100). Diopter ± 5 adjustments on both eyepieces



FACE-TO-FACE DUAL HEAD SYSTEM

The Delphi-X Observer[™] can be supplied with two binocular heads in a face-to-face configuration, allowing simultaneous observation by two operators. The main binocular head is equipped with super wide field SWF 10x/25 mm eyepieces and the second head with EWF 10x/22 mm eyepieces. A joystick enables the operator to move a green or red laser pointer across the entire field of view of both heads

MULTIHEAD SYSTEM

The Delphi-X-Observer[™] can be extended with a multihead system for two, three, five or ten users. The central attachment is equipped with a joystick to move a green and red laser pointer across the entire field of view of all heads. The multihead systems with two, three or five heads and 30° inclined tubes are supplied with super wide field SWF 10x/25 mm eyepieces. The multihead systems with ten heads and 30° inclined tubes have the trinocular main head equipped with super wide field SWF 10x/25 mm eyepieces and the other nine binocular heads with extended wide field EWF 10x/22 mm eyepieces. The Delphi-X Observer™ multihead system with ten heads is supplied without the iCare sensor





NOSEPIECE

Revolving sextuple reversed nosepiece on ball-bearings with M25 objectives mounting threads

MOTORIZED MODEL

The Delphi-X Observer[™] can be supplied with a motorized revolving sextuple reversed nosepiece together with a flipdown condenser. A precise step-motor allows the user to switch from objective by a simple push on a button. Another button allows quick switching between two preselected objectives. The electronics memorize automatically the light intensity levels for each objective after switching. The electronics also automatically flip out the front lens of the flip-down condenser when the 4x objective is used

ENHANCED INFINITY SYSTEM (EIS)

OBJECTIVES

Plan (PLi)	2x/0.06*	4x/0.10	10x/0.25	20x/0.40	S40x/0.65	\$50x/ 0.95 oil*	S60x/ 0.80*	S100x/1.25 oil	\$100x/ 1.25 oil iris*
Plan phase (PLPHi)			10x/0.25	20x/0.40	S40x/0.65			S100x/1.25 oil	
Plan semi-apo (PLi Apo)		4x/0.13	10x/0.30	20x/0.50	S40x/0.75			S100x/1.30 oil	

Motorized nosepiece

All objectives are 60 mm parfocal and have a M25 mounting thread, all optics are anti-fungus treated and anti-reflection coated for maximum light throughput and all S40x, S50x, S60x and S100x objectives are spring loaded * Optional

The enhanced infinity system (EIS) of the Delphi-X Observer™ consists of super wide field SWF 10x25 mm eyepieces, high numerical aperture, 60 mm parfocal objectives and a 200 mm focal length tube lens. This focal length tube lens reduces the angle of the light rays passing the optics and as a direct result it improves significantly the chromatic aberration corrections and contrast. The objectives with larger diameter enable much higher numerical apertures improving the overall resolving power of the optical system. For all these reasons the Delphi-X Observer™ offers superior optical performance for the most demanding applications

PLAN ACHROMATIC EIS OBJECTIVES (CLINICAL ROUTINE APPLICATIONS)

The Delphi-X Observer[™] comes with plan achromatic 4x/0.10, 10x/0.25, 20x/0.40, \$40x/0.65 and \$100x/1.25 oil immersion infinity corrected EIS objectives

As an option available: 2x/0.06, S50x/0.95 (oil immersion) and S60x/0.80

PLAN SEMI-APOCHROMATIC OBJECTIVES (ANATOMO- AND HISTOPATHOLOGY APPLICATIONS)

The Delphi-X Observer[™] can also be supplied with plan semi-apochromatic Fluarex 4x/0.13, 10x/0.30, 20x/0.50, S40x/0.75 and S100x/1.30 (oil immersion) infinity corrected EIS objectives

PLAN PHASE CONTRAST OBJECTIVES

The Delphi-X Observer™ with phase contrast is supplied with Plan phase EIS 10x/0.25, 20x/0.40, s40x/0.65 and s100x/1.25 (oil immersion) infinity corrected EIS objectives

STAGE

The 190 x 152 mm stage has a 78 x 32 mm integrated righthanded mechanical stage. Comes with scratch-resistant Gorilla glass. Sapphire scratch-resistant glass is available on request. Left-handed mechanical stage is also available on request



Sextuple nosepiece

FOCUSING

Coaxial coarse and fine adjustment, 100 graduations, 1 µm precision, 100 µm per rotation, total travel range is approx. 35 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control. The focusing knobs can be switched from left to right according to the user's preference

CONDENSER FOR BRIGHTFIELD

In height adjustable N.A. 0.90/1.25 Abbe swing-out condenser with numerical aperture identification marks. Models with a motorized nosepiece are supplied with a motorized condenser that automatically flips out the front lens of the condenser when the 4x objective is used

CONDENSER FOR PHASE CONTRAST

In height adjustable N.A. 1.25 Zernike phase contrast condenser with phase annuli for 10/20/40x and S100x-oil objectives. To be used with the phase contrast objectives

DIFFERENTIAL INTERFERENCE CONTRAST (DIC)

The Nomarski differential interference contrast technique helps to enhance contrast of samples and lets samples appear as three-dimensional objects. The equipment consist of a specific rotating DIC condenser, two Nomarski modified Wollaston prisms, a DIC slider for insertion into the slot of the sextuple reversed nosepiece and a polarizer

DIASCOPIC ILLUMINATION

Observer[™] microscope: Diascopic intensity adjustable 3 W NeoLED™ Köhler illumination with internal 100-240 V power supply · Diascopic intensity adjustable 100 W halogen Köhler illumination with internal 100-240 V power supply

The diascopic halogen illumination comes with two push-in/ push-out neutral density filters for smooth attenuation of the light intensity for all kinds of samples. The diascopic NeoLED™ illumination comes with one neutral density filter

Two Köhler illuminations are available for the Delphi-X

LIGHT INTENSITY MEMORY FUNCTION

LIM automatically saves preferred brightness while changing magnifications. It eliminates the need for adjusting lamp brightness when changing magnification. This allows maintaining preferred brightness at each magnification, thus improving user efficiency significantly and reducing eye strain. Standard on all models with a motorized nosepiece, for other models see ordering instructions below For ordering Automatic light intensity memory function Example: DX.1153-PLi = DX.1153-PLi/LIM model but with automatic light control

NEOLED™

The innovative NeoLED™ design is a combination of a custom LED and a specially designed thin lens with a short focal length in order to obtain three main benefits:

- · More oblique light from the LED light source can be captured, which increases the light output significantly
- · Less energy is required to achieve this level of light intensity
- The larger aperture of NeoLED™ allows the optical system



Nosepiece lowering attachment (DX.9887)

to produce images at higher resolutions, very close to the theoretical diffraction limit of the optics

ICARE SENSOR

The unique iCare Sensor is developed to avoid unnecessary loss of energy. The illumination of the microscope automatically switches off shortly after the microscopist steps away from the microscope

CARRYING GRIP

The carrying grip at the back of the microscope ensures safe transportation of the microscope and the integrated tool & holder makes sure the right tool is always available

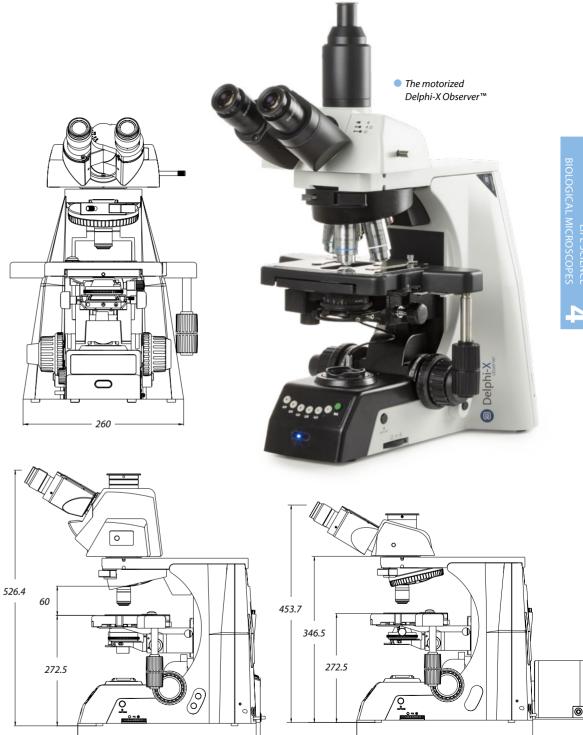
PACKAGE CONTENT

Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil. All packed in a polystyrene box





Eye-level riser (DX.9885)



367

375.7

479.5

STANDARD MODELS

MODELS	Ergonomic tilting head	SWF 10x/25 mm eyepieces	Sextuple nosepiece	Plan 4/10/20/ S40/ S100x oil EIS objectives	Plan semi-apo 4/10/20/S40/S100x oil EIS objectives	Plan phase 10/20/ S40/ S100x oil EIS objectives	3 W NeoLED™ Köhler	100 W 24 V halogen Köhler
DX.1153-PLi		•	•	•			•	
DX.1158-PLi		•	•	•			•	
DX.1153-APLi		•	•				•	
DX.1158-APLi		•	•		•		•	
DX.1153-PLPHi		•				•	•	
DX.1158-PLPHi	•	•	•			•	•	
DX.2153-PLi		•		•				•
DX.2158-PLi	•	•	•	•				•
DX.2153-APLi		•	•		•			•
DX.2158-APLi	•	•	•		•			•
DX.2153-PLPHi		•	•					•
DX.2158-PLPHi	•	•	•			A		•



MOTORIZED MODELS

MODELS	Ergonomic tilting head	SWF 10x/25 mm eyepieces	Sextuple nosepiece	Plan 4/10/20/ S40/ S100x oil EIS objectives	Plan semi-apo 4/10/20/ S40/S100x oil EIS objectives	3 W NeoLED™ Köhler	100 W 24 V halogen Köhler
DX.1173-PLi		•		•		•	
DX.1178-PLi	•	•	•	•		•	
DX.1173-APLi		•	•		•	•	
DX.1178-APLi	•	•	•		•	•	
DX.2173-PLi		•	•	•			•
DX.2178-PLi	•	•		•			•
DX.2173-APLi		•	•		•		•
DX.2178-APLi					•		•

For ordering more motorized models, substitute the third digit "5" of the model reference with the digit "7" Example: DX.1173-PLi = DX.1153-PLi model but with motorized nosepiece, flip-down condenser and automatic light control

FACE-TO-FACE DUAL HEAD SYSTEMS

MODELS	Total users	Trinocular head SWF 10x/25 mm eyepieces	Binocular head SWF 10x/22 mm eyepieces	Sextuple nosepiece	Plan 4/10/20/ S40/ S100x oil EIS objectives	Plan semi-apo Fluarex 4/10/20/ S40/S100x oil EIS objectives	Plan phase 10/20/S40/ S100x oil EIS objectives	3 W NeoLED™ Köhler	100 W 24 V halogen Köhler
DX.1154-PLi	2	1x	1x					•	
DX.1154-APLi	2	1x	1x	•		•		•	
DX.1154-PLPHi	2	1x	1x	•			•	•	
DX.2154-PLi	2	1x	1x	•	•				•
DX.2154-APLi	2	1x	1x			•			•
DX.2154-PLPHi	2	1x	1x	•			•		•

MULTIHEAD SYSTEMS

MODELS	Total users	Trinocular head SWF 10x/25 mm eyepieces	Number of binocular heads	Binocular head SWF 10x/25 mm eyepieces	Sextuple nose- piece	Plan 4/10/20/ S40/ S100x oil EIS objectives	Plan semi- apo Fluarex 4/10/20/S40/ S100x oil EIS objectives	Plan phase 10/20/S40/ S100x oil EIS objectives	3 W NeoLED™ Köhler	100 W 24 V halogen Köhler
DX.1156-PLi/2	2	1x	1	•	•	•			•	
DX.1156-PLi/3	3	1x	2	•	•	•			•	
DX.1156-PLi/5	5	1x	4	•	•	•			•	
DX.1156-APLi/2	2	1x	1	•	•		•		•	
DX.1156-APLi/3	3	1x	2	•	•		•		•	
DX.1156-APLi/5	5	1x	4	•	•				•	
DX.1156-PLPHi/2	2	1x	1	•	•			•	•	
DX.1156-PLPHi/3	3	1x	2	•	•			•	•	
DX.1156-PLPHi/5	5	1x	4	•	•			•	•	
DX.2156-PLi/2	2	1x	1	•	•	•				•
DX.2156-PLi/3	3	1x	2	•	•	•				•
DX.2156-PLi/5	5	1x	4	•	•	•				•
DX.2156-APLi/2	2	1x	1	•	•		•			•
DX.2156-APLi/3	3	1x	2	•	•					•
DX.2156-APLi/5	5	1x	4	•	•		•			•
DX.2156-PLPHi/2	2	1x	1	•	•			•		•
DX.2156-PLPHi/3	3	1x	2	•	•			•		•
DX.2156-PLPHi/5	5	1x	4	•	•			•		•
DX.2156-PLi/10	10	1x	9 (1)		•	•				•
DX.2156-APLi/10	10	1x	9 (1)		•		•			•
DX.2156-PLPHi/10	10	1x	9 (1)		•			•		•
DX.1156-PLi/10	10	1x	9 (1)		•	•			•(2)	
DX.1156-APLi/10	10	1x	9 (1)		•		•		•(2)	
DX.1156-PLPHi/10	10	1x	9 (1)						•(2)	

⁽¹⁾ The model with 9 binocular heads (10 users) is supplied with EWF 10x/22 mm eyepieces

⁽²⁾ Supplied with 10 W NeoLED™ Köhler, without iCare sensor

ACCESSORIES AND SPARE PARTS

EYEPIECES

DX.6010	Super wide field SWF 10x/25 mm eyepiece	DX.7340	Infinity EIS 60 mm plan semi-apochromatic
DX.6010-CM	I Super wide field SWF 10x/25 mm eyepiece		PLi-apo Fluarex S40x/0.75 objective. WD 0.7 mm
	with micrometer and crosshairs	DX.7300	Infinity EIS 60 mm plan semi-apochromatic
DX.6210	Super wide field SWF 10x/22 mm eyepiece		PLi-apo Fluarex S100x/1.30 oil immersion
DX.6210-CN	1 Super wide field SWF 10x/22 mm eyepiece		objective. WD 0.15 mm
	with micrometer and crosshairs	DX.7710	Infinity plan phase PLPHi 10x/0.25 objective
DX.6012	Wide field WF 12.5x/17.5 mm eyepiece	DX.7720	Infinity plan phase PLPHi 20x/0.40 objective
DX.6015	Wide field WF 15x/16 mm eyepiece	DX.7740	Infinity plan phase PLPHi S40x/0.65 objective
DX.6020	Wide field WF 20x/12 mm eyepiece	DX.7700	Infinity plan phase PLPHi S100x/1.25 oil objective
DX.6099-L	Eyecups for eyepiece		

ORIECTIVES

ORJECTI	IVES
DX.7201	Infinity EIS 60 mm Plan PLi 1x/0.04 objective.
	WD 3.2 mm
DX.7202	Infinity EIS 60 mm Plan PLi 2x/0.06 objective.
	WD 7.5 mm
DX.7204	Infinity EIS 60 mm Plan PLi 4x/0.10 objective.
	WD 30 mm
DX.7210	Infinity EIS 60 mm Plan PLi 10x/0.25 objective.
	WD 10.2 mm
DX.7220	Infinity EIS 60 mm Plan PILi 20x/0.40 objective.
	WD 12 mm
DX.7240	Infinity EIS 60 mm Plan PLi S40x/0.65 objective.
	WD 0.7 mm
DX.7250	Infinity EIS 60 mm Plan PLi S50x/0.95 oil
	objective. WD 0.19 mm
DX.7260	Infinity EIS 60 mm Plan PLi S60x/0.80 objectives.
	WD 0.3 mm
DX.7200	Infinity EIS 60 mm Plan PLi S100x/1.25 oil
	immersion objective. WD 0.2 mm
DX.7200-I	Infinity EIS 60 mm Plan PLi S100x/1.25

oil immersion objective with built-in iris

Infinity EIS 60 mm plan semi-apochromatic

Infinity EIS 60 mm plan semi-apochromatic PLi-apo Fluarex 10x/0.30 objective. WD 8.1 mm

Infinity EIS 60 mm plan semi-apochromatic

PLi-apo Fluarex 20x/0.50 objective. WD 2.1 mm

PLi-apo Fluarex 4x/0.13 objective. WD 16.5 mm

diaphragm. WD 0.2 mm

STAGES

DX.9112

DX.9501-L	Stage with Gorilla glass. Left handed
DX.9504-R	Stage with Sapphire glass. Right handed
DX.9504-L	Stage with Sapphire glass. Left handed
DX.9501-LG	Option for left handed stage with Gorilla glass*
DX.9504-RS	Option for right handed stage with
	Sapphire glass*
DX.9504-LS	Option for left handed stage with
	Sapphire glass*
* Only with n	ew Delphi-X Observer™ microscopes

(resp. DX.xx5x-xxx/LG, DX.xx5x-xxx/RS and DX.xx5x-xxx/LS)

DX.9501-R Stage with Gorilla glass. Right handed

PHASE	CONTRAST EQUIPMENT
DX.9126	Phase contrast set with 10/20/S40 and S100x oil
	objectives, supplied with rotating disc phase
	contrast condenser with phase annuli and
	alignment telescope
DX.9140	Rotating disc phase contrast condenser with
	phase annuli without objectives
DX.9148	Alignment telescope for phase contrast,
	Ø 30 mm tube
CONDE	NSERS
DX.9105	Abbe condenser with 0.9/1.25 swing-out front lens
DX.9110	Dry darkfield condenser

Oil immersion darkfield condenser

POLARIZER

DX.9660 Simple polarization kit

(DX.9695)

DX.9662	Special polarization kit for gout		standard 23.2 mm tube. Needs T2 adapter
		AE.5025	T2 adapter for Nikon D SLR digital camera
DIFFERE	NTIAL INTERFERENCE CONTRAST	AE.5040	T2 adapter for Canon EOS SLR digital camera
DX.9690	Rotating DIC and BF disc condenser without DIC		
	prisms for life science Delphi Observer models.	MISCELL	ANEOUS
	Needs one or more DIC-prisms (DX.9660-xx),	DX.9704	Yellow filter for lamphouse, diameter 45 mm

AE.5130

DX.9690-10	DIC prism for rotating disc condenser (DX.9690)
	for life science Delphi Observer models.
	To be used with plan semi-apo 10x objective

		•	•	,	
DX.9690-20	DIC prism for r	otating di	sc conder	nser (DX.9	690
	for life science	Delphi Ob	server m	odels.	

To be used with plan semi-apo 20x objective

slider with prism for nosepiece (DX.9693 and/or DX.9694) and DIC polarizer for transmitted light

DX.9690-40 DIC prism for rotating disc condenser (DX.9690) for life science Delphi Observer models.

To be used with plan semi-apo 40x objective **DX.9690-100** DIC prism for rotating disc condenser (DX.9690)

for life science Delphi Observer models. To be used with plan semi-apo 100x objective

DX.9693 Slider with DIC prism for nosepiece and to be used with plan semi-apo 10x and 20x objectives

of life science Delphi Observer models DX.9694 Slider with DIC prism for nosepiece and to be

> used with plan semi-apo 40x and 100x objectives of life science Delphi Observer models

DX.9695 DIC polarization filter for transmitted light

CAMERA ACCESSORIES

DX.9810	C-mount with 1x magnification
	for C-mount camera
DX.9835	C-mount with high resolution relay 0.35x
	objective for 1/3 inch C-mount camera
DX.9850	C-mount with high resolution relay 0.50x
	objective for 1/2 inch C-mount camera
DX.9863	C-mount with high resolution relay 0.63x

objective for 2/3 inch C-mount camera

DX.9704	Yellow filter for lamphouse, diameter 45 mm
DX.9885	25.4 mm eye-level riser (1 inch)
DX.9887	40 mm nosepiece and stage lowering
	attachment
DX.9960	100 Watt 24 V halogen bulb (revision 1 mode
DX.9961	100 Watt 12 V halogen bulb (revision-2 models
DX.9993	3 Watt LED replacement
AE.5214	500 mA 250 V fuses for LED models, 10 pieces
AE.5216	5 A 250 V fuses for Halogen models, 10 pieces

Universal SLR adapter with built-in 2x lens for

DISPOSABLES

PB.5155	Microscope slides 76 x 26 mm, ground edges,
	50 pieces per pack
PB.5157-W	Microscope slides 76 x 26 mm, ground edges
	and frosted side white color, 50 pieces per pack
PB.5157-B	Microscope slides 76 x 26 mm, ground edges
	and frosted side blue color, 50 pieces per pack
PB.5165	Cover glasses 18 x 18 mm, 0.13-0.17 mm,
	100 pieces
PB.5168	Cover glasses 22 x 22 mm, 0.13-0.17 mm,
	100 pieces
PB.5245	Lens cleaning paper, 100 sheets per pack
PB.5255	Immersion oil, 25 ml. Refraction index $n = 1.482$
PB.5274	Isopropyl alcohol 99%, 200 ml
PB.5275	Cleaning kit: lens fluid, lint free lens tissue/

paper, brush, air blower, cotton swabs

WD = Working distance

DX.7304

DX.7310

DX.7320



are dedicated to professionals in life sciences applications, laboratories of universities or research centers

Thanks to the high resolution optics and state-of-the-art components, these microscopes can be widely used from routine to fundamental research applications















OX.3025 TO OX.3065

HIGHLIGHTS

- HWF 10x/22 mm eyepieces
- Binocular, trinocular and multihead systems
- Optional tilting head
- Reversed nosepiece for a maximum of five objectives
- Semi plan, plan and plan phase contrast IOS objectives
- 150 x 140 mm stage
- Optional ceramic stage
- Abbe condenser and Zernike condenser for phase contrast
- 3 W LED illumination for brightfield and phase contrast
- 5 W LED illumination for darkfield applications
- Ergonomic stand and head
- 10 Years warranty

Ergonomic tilting head

SPECIFICATIONS

EYEPIECES

HWF 10X/22 mm eyepieces with $\pm 5^{\circ}$ diopter adjustments on both eyepieces. The multihead systems OX.56xx are supplied with WF 10x/20 mm eyepieces and a joystick for the positioning of a pointer in the field of view of the eyepieces. All eyepieces can be secured with an Allen screw

HEAD

Binocular and trinocular Siedentopf type heads with 30° inclined tubes. Interpupillary distance from 50 to 75 mm. A unique rotating system allows an ergonomic positioning of both tubes in an upper (431 mm) and in a lower position (397 mm). An ergonomic tilting head is also available (OX.5700-ADD)

MULTIHEAD SYSTEM

The Oxion can be extended with a unique multihead system for in total two, three or five heads that allows simultaneous observation of specimens. The central attachment is equipped with a joystick to move a green and red laser pointer across the entire field of view of all heads. Configurations with one, two or four viewing binocular heads, 30° inclined tubes and plan 4x, 10x, S40, S100x oil immersion

infinity corrected IOS objectives. Each extra viewing binocular head is equipped with high wide field plan HWF 10x/20 mm eyepieces

(reference models OX.5602, OX.5603 and OX.5605)

NOSEPIECE

Reversed nosepiece for a maximum of five objectives on ball-bearings



OBJECTIVES

IOS Infinity corrected system

- Semi plan 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
- Plan 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
- Plan phase contrast 10x/0.25, 20x/0.45, \$40x/0.65 and S100x/1.25 oil immersion IOS objectives
- Plan semi apochromatic Fluarex 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives

All S40x, S60x and S100x oil immersion objectives are spring loaded

All optics have an anti-reflection coating for maximum light throughput and are anti-fungus treated

STAGE

150 x 140 mm stage with integrated 76 x 50 mm X-Y mechanical stage

A ceramic stage is also available on request. (AE.3197-ADD, only with new microscopes)

The Oxion can be supplied with a heating stage which can be set up to 50° Celsius by a PID temperature controller. Only available with new microscopes. Higher temperatures can be achieved on special request

CONDENSER FOR BRIGHTFIELD

Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm. Phase contrast rings mounted in slider can be inserted in the condenser for 10x and S40x or 20x and S100x phase contrast objectives. A darkfield stop in slider for the 10x, 20x and S40x objectives can also be inserted with magnification indication

MODELS	Bino	Trino	Semi plan 4x/ 10x/S40x/S100x IOS objectives	Plan4x/10x/ S40x IOS objectives	Plan S100x objective	Plan semi apo 4x/10x/ S40x objectives	Plan semi apo S100x IOS objectives	Plan phase 10x/ 20x/S40x/ S100x IOS objectives	Plan phase 10x/ S40x/ S100x IOS objectives
OX.3012	•		•						
OX.3015		•	•						
OX.3020	•			•					
OX.3025		•		•					
OX.3030	•			•	•				
OX.3035		•		•	•				
OX.3040								• (1)	
OX.3045								• (1)	L
OX.3042	•							-	• (2)
OX.3047		•							• (2)
OX.3050	•					•			
OX.3055		•				•			
OX.3060	•					•	•		
OX.3065		•				•	•		
OX.3064				•	• (3)				The same of the sa
OX.5602		• (4)		•	•				
OX.5603		• (5)		•					1 (
OX.5605		• (6)		•	•			-	

- ⁽²⁾ Plan phase objectives supplied with AE.3183 condenser with three phase contrast rings and one stop for darkfield
- (3) Supplied with cardioid mirror darkfield oil immersion condenser and S100x objective with built-in iris diaphragm
- ⁽⁴⁾ Multihead system, supplied with a trinocular and one binocular head
- (5) Multihead system, supplied with a trinocular and two binocular heads
- (6) Multihead system, supplied with a trinocular and four binocular heads

CONDENSERS FOR ZERNIKE PHASE CONTRAST

Two optional height adjustable Zernike NA. 1.25 phase contrast disc condensers are available:

- With plan phase 10/20/S40x and S100x oil immersion objectives
- With plan phase 10/S40x/S100x oil immersion objectives and darkfield position for darkfield contrast up to 400x magnification

FOCUSING

Coaxial coarse and fine adjustments, 200 graduations, 1 µm per graduation, 200 µm per rotation, total travel range is approximately 28 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives.

The coarse adjustments are equipped with friction control

CARDIOID MIRROR CONDENSER **FOR DARKFIELD**

The OX.3064 model is supplied with a condenser with cardioid mirrors, a 5 W integrated NeoLED™ illumination and a S100x objective with built-in iris diaphragm for real 1,000x darkfield observations. By using AE.3612-O and 86.521 an existing brightfield microscope can be upgraded to darkfield

ILLUMINATION FOR DARKFIELD

5 W NeoLED™ adjustable illumination (for model OX.3064)



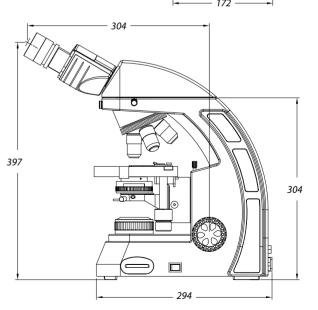
ILLUMINATION FOR BRIGHTFIELD AND PHASE CONTRAST

All models are supplied with a 3 W adjustable NeoLED™ illumination with integrated 100-240 V power supply. Köhler illumination with field diaphragm

PACKAGE CONTENT

Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil for models with an S100x objective. All packed in a polystyrene box. An optional aluminum case can be supplied

76



ACCESSORIES AND SPARE PARTS

EYEPIE	CES		
AE.3210	HWF 10x/22 mm eyepiece	86.521	Plan S100x/1.25 oil immersion infinity corrected
AE.3215	HWF 15x/13 mm eyepiece		IOS objective with built-in iris diaphragm
AE.3223	HWF 10x/22 mm eyepiece	AE.3144	Plan semi apochromatic Fluarex 4x/0.13
	with 10 mm/100 micrometer		infinity corrected IOS objective. WD 18.5 mm
AE.3225	Pair of eyecups	AE.3146	Plan semi apochromatic Fluarex 10x/0.30
			infinity corrected IOS objective. WD 10.6 mm
OBJECT	IVES	AE.3148	Plan semi apochromatic Fluarex 20x/0.50
AE.3160	Semi plan 4x/0.10 infinity corrected IOS		infinity corrected IOS objective. WD 2.33 mm
	objective. WD 15 mm	AE.3152	Plan semi apochromatic Fluarex S40x/0.75
AE.3162	Semi plan 10x/0.25 infinity corrected IOS		infinity corrected IOS objective. WD 0.6 mm
	objective. WD 15 mm	AE.3156	Plan semi apochromatic Fluarex S100x/1.28
AE.3166	Semi plan S40x/0.65 infinity corrected IOS		oil immersion infinity corrected IOS objective.
	objective. WD 0.42 mm		WD 0.21 mm
AE.3168	Semi plan S60x/0.85 infinity corrected IOS		
	objective. WD 0.12 mm	AE.3126	Plan phase 10x/0.25 infinity corrected IOS
AE.3170	Semi plan S100x/1.25 oil immersion infinity		objective. WD 12.1 mm
	corrected IOS objective. WD 0.19 mm	AE.3128	Plan phase 20x/0.45 infinity corrected IOS
			objective. WD 1.5 mm
AE.3102	Plan 2x/0.06 infinity corrected IOS objective	AE.3130	Plan phase S40x/0.65 infinity corrected IOS
	WD 4.1 mm		objective. WD 0.36 mm
AE.3104	Plan 4x/0.10 infinity corrected IOS objective.	AE.3134	Plan phase \$100x/1.25 oil immersion infinity
	WD 11.9 mm		corrected IOS objective. WD 0.18 mm
AE.3106	Plan 10x/0.25 infinity corrected IOS objective.		
	WD 12.1 mm	PHASE	CONTRAST ATTACHMENTS
AE.3108	Plan 20x/0.40 infinity corrected IOS objective.	AE.3180	Telescope for alignment of phase contrast rings
	WD 1.5 mm	AE.3183	Phase contrast Zernike condenser with three

Plan S40x/0.65 infinity corrected IOS objective.

Plan S60x/0.85 infinity corrected IOS objective.

Plan S100x/1.25 oil immersion infinity corrected

NTRAST ATTACHMENTS

AE.3183	Phase contrast Zernike condenser with three
	phase rings and one darkfield stop and
	plan phase PLPH 10x, S40x, S100x oil objectives
AE.3184	Phase contrast Zernike condenser with four
	phase rings and plan phase PLPH 10x, 20x, S40x,
	S100x oil objectives
AE.3186	Slider phase contrast kit with plan phase
	10x/20x/40x/S100x oil objectives
	and two sliders with phase contrast rings for
	PLPH 10x/S40x and 20x/S100x objectives
AE.3187	Slider with phase rings for 10x and S40x plan
	phase contrast objectives
AE.3189	Slider with phase rings for 20x and S100x oil plan
	phase contrast objectives

POLARIZATION ATTACHMENTS

AE.3190	Polarizer/analyzer set	AE.3199	Glass fuses 3.15 A 250 V, 10 pieces
AE.3192	Polarizer slider for nosepiece	OX.3010	Aluminum transport case with flight case locks
AE.3194	Polarizer for lamphouse	OX.3011	Aluminum transport case with classical locks

FILTERS

AE.3196	Frosted filter 45 mm, to be mounted
	on lamphouse
AE.3198	Blue glass filter 45 mm,
	to be mounted on lamphouse
AE.3200	Yellow glass filter 45 mm,
	to be mounted on lamphouse
AE.3202	Green glass filter 45 mm,
	to be mounted on lamphouse

CAMERA ACCESSORIES

AE.5120	Trinocular 23.2 mm tube for Oxion revision 1
	photo port
AE.5120-2	Trinocular 23.2 mm tube for Oxion revision-2
	photo port
AE.5130	Universal SLR camera adapter for 23.2 mm tubes
	with built-in 2x magnification lens.
	Needs T2 adapter and OX.5120
AE.5025	T2 adapter for Nikon D digital SLR cameras
AE.5040	T2 adapter for Canon EOS digital SLR cameras

DISPOSABLES

PB.5165

50 pieces

Cover glasses 18 x 18 mm,

thickness 0.13-0.17 mm, 100 pieces

	PB.5168	Cover glasses 22 x 22 mm,
		thickness 0.13-0.17 mm, 100 pieces
	PB.5245	Lens cleaning paper, 100 sheets per pack
	PB.5255	Immersion oil, n = 1.482 (25 ml)
	PB.5274	Isopropyl alcohol 99% (200 ml)
	PB.5275	Cleaning kit: lens cleaning fluid, lint free lens
		tissue, brush, air blower, cotton swabs
	PB.5276	Microscope maintenance and servicing kit, 16pcs
		cleaning brush, 6 pcs screwdriver set, air blower,
		3 pcs Allen key, 1.5, 2, 2.5 mm, lens cleaning fluid
S		20 ml, cleaning cloth 140 x 140 mm, 100 pcs lens
		tissue sheets, tube of maintenance grease, 10 ml

bottle of oil, packed in a nice toolbox

Microscope slides 76 x 26 mm, ground edges,

WD = working distance

MISCELLANEOUS

AE.3185 Slider with darkfield stop

OX.9810	CS/C mount with 1.0x objective
OX.9833	C-mount adapter with 0.33x objective for Oxion
	microscopes and 1/3" cameras
OX.9850	C-mount adapter with 0.5x objective for Oxion
	and Oxion Inverso microscopes and 1/2" cameras
AE.5168-O	Heating stage and temperature controller up
	to 50°C. Only supplied with newly purchased
	microscopes
AE.3612-O	Cardioid darkfield condenser with integrated 5 \mbox{W}
	LED light source and external 100-240 V mains
	adapter
SL.5510	LED replacement for Oxion

(only for objectives 10x, 20x and S40x)



AE.3184

AE.3110

AE.3112

AE.3114

WD 0.36 mm

WD 0.30 mm

IOS objective. WD 0.18 mm



The BlueLine flagship BioBlue.Lab is the ideal laboratory instrument. The steady base, infinity corrected objectives and phase contrast possibilities makes the BioBLue.Lab a high quality all round microscope

All models are equipped with NeoLED™ illumination system for high resolution images and are available in binocular and trinocular versions

These ergonomic easy-to-use microscopes have been designed specifically for laboratory and university applications. The 150 x 140 mm mechanical stage has an integrated rackless X-Y stage with 75 x 30 mm travel range

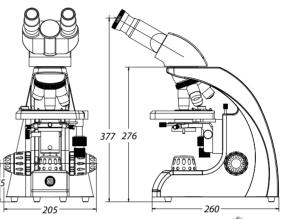
> An important feature of the BioBlue.Lab is the rackless stage, which provides a smooth translation of the specimen and highly precise positioning. This plays an integral part in most demanding cytology and histopathology applications

The BioBlue.Lab microscope models offer great functionality and are equipped with WF 10x/20 mm eyepieces, plan and IOS plan 4x/ 10x/ S40x/ S100x infinity corrected objectives

BioBlue.Lab microscopes can also be supplied with IOS plan phase contrast objectives 10x / 20x / S40x / S100x, which are infinity corrected

HIGHLIGHTS

- WF 10x/20 mm eyepieces
- Binocular and trinocular models
- Reversed quadruple nosepiece
- Plan and plan phase objectives
- Non-infinity and infinity optical system
- Integrated rackless mechanical stage
- 3 W NeoLED™ illumination
- Ergonomic carrying grip
- 10 Years warranty



BB.1153-PLPHi

This enhancement is suitable for a wide variety of routine applications in laboratories and field microscopy



BioBlue

Check out the product video on YouTube and learn more about the BlueLine. YouTube channel: Euromex Optics Group B.V.



BB.1152-PLi

BB.1153-PLi

378 (h) x 190 (w) x 260 mm (d) | 5.4 kg

448 (h) x 190 (w) x 260 mm (d) | 5.6 kg













BioBlue.Lab

SPECIFICATIONS

EYEPIECES

Wide field WF 10x/20 mm eyepieces

HEAD

Binocular and trinocular models have 30° inclined Ø 30 mm tubes. The interpupillary distance is adjustable between 48 to 75 mm. All models have a ± 5 diopter adjustment on left tube. All heads are 360° rotatable and secured with a screw

NOSEPIECE

Reversed quadruple nosepiece on ball bearings. Slot for analyzer (BB.9602)

OBJECTIVES

BioBlue.Lab microscopes are equipped with plan, plan IOS (infinity corrected) and plan phase IOS (infinity corrected) objectives. Optional 20x/0.40 and S60x/0.85 objectives are also available. The S40x, S60x and S100x objectives are spring loaded

All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

STAGE

Rackless 150 x 140 mm stage with mechanical 75 x 30 mm X-Y translation stage

CONDENSER

Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder. Supplied with white filter. Height adjustable Zernike N.A. 1.25 phase contrast condenser with filter holder. Supplied with green filter

ILLUMINATION

Binocular and trinocular models are supplied with an adjustable 3 W NeoLED™ illumination system for increased light output. Integrated 100-240V power supply

PACKAGE CONTENT

Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil and white filter. All packed in a polystyrene box

FOCUSING

Coaxial coarse and fine adjustments with 200 graduations. Precision 1.5 μm per graduation, 0.3 mm per rotation. Total travel range is approximately 28 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control



MODELS	Bino	Trino	4x/10x/S40x/ S100x plan objectives	4x/10x/S40x/ S100x plan IOS objectives	10x/20x/S40x/S100x plan phase objective	10x/20x/S40x/S100x plan phase IOS objectives	Rackless mechanical stage	Neo LED	Weight (kg)
BB.1152-PL	•		•				•	•	5.4
BB.1153-PL		•	•				•	•	5.5
BB.1152-PLi	•			•			•	•	5.4
BB.1153-PLi		•		•			•	•	5.5
BB.1152-PLPHi	•					•	•	•	5.6
BB.1153-PLPHi						•	•	•	5.7

ACCESSORIES AND SPARE PARTS

EYEPIECES

BB.6010	WF 10x/20 mm eyepiece, 30 mm tube
BB.6110	WF 10x/20 mm eyepiece, 30 mm tube
	with micrometer reticle
BB.6015	WF 15x/15 mm eyepiece, 30 mm tube
BB.6020	WF 20x/11 mm eyepiece, 30 mm tube
BB.6099	Pair of eyecups

OBJECTIVES

OBJECT	IVES
BB.8804	Plan DIN 4x/0.10 objective. WD 17.92 mm
BB.8810	Plan DIN 10x/0.25 objective. WD 2.04 mm
BB.8820	Plan DIN 20x/0.40 objective. WD 1.20 mm
BB.8840	Plan DIN S40x/0.65 objective. WD 0.65 mm
BB.8860	Plan DIN S60x/0.80 objective. WD 0.19 mm
BB.8800	Plan DIN \$100x/1.25 oil immersion objective.
	WD 0.18 mm
BB.7204	Plan DIN 4x/0.10 IOS objective. WD 7.18 mm
BB.7210	Plan DIN 10x/0.25 IOS objective. WD 4.80 mm
BB.7220	Plan DIN 20x/0.40 IOS objective,. WD 5.27 mm
BB.7240	Plan DIN S40x/0.65 IOS objective. WD 0.68 mm
BB.7260	Plan DIN S60x/0.85 IOS objective. WD 0.50 mm
BB.7200	Plan DIN S100x/1.25 oil immersion IOS objective
	WD 0.20 mm
BB.7710	Plan phase DIN 10x/0.25 IOS objective.
	WD 4.7 mm
BB.7720	Plan phase DIN 20x/0.40 IOS objective.
	WD 1.75 mm
BB.7740	Plan phase DIN S40x/0.65 IOS objective.
	WD 0.72 mm
BB.7700	Plan phase DIN S100x/1.25 oil immersion IOS

objective. WD 0.50 mm WD = working distance BioBlue.Lab with phase contrast

MISCELLANEOUS

BB.9126	Zernike phase contrast kit with PLPHi IOS
	objectives and rotating phase contrast disc with
	four annuli, centering telescope and green filter
BB.9602	Analyzer in slider, Ø 25 mm. Fits in nosepiece
BB.9707	White filter Ø 32 mm. Fits in filter holder
BB.9732	Polarization filter, 32 mm diameter.
	Fits in filter holder
BB.9880	Köhler attachment
BB.9993	3 W NeoLED™ replacement unit

CAMERA ACCESSORIES

BB.9900 Aluminum case

AE.5130	Universal SLR camera adapter with 2x projection
	lens for 23.2 mm tubes. Needs T2 adapter
AE.5040	T2 adapter for Canon EOS SLR digital camera
AE.5025	T2 adapter for Nikon D SLR digital camera

DISPOSABLES

DISPUSI	ABLES
PB.5155	Microscope slides 76 x 26 mm, ground edges,
	50 pieces
PB.5157-W	Microscope slides 76 x 26 mm, ground edges.
	White frosted side, 50 pieces per pack
PB.5157-B	Microscope slides 76 x 26 mm, ground edges.
	Blue frosted side, 50 pieces per pack
PB.5165	Cover glasses 18 x 18 mm,
	thickness 0.13-0.17 mm, 100 pieces
PB.5168	Cover glasses 22 x 22 mm,
	thickness 0.13-0.17 mm, 100 pieces
PB.5245	Lens cleaning paper, 100 sheets per pack
PB.5255	Immersion oil, $n = 1.482 (25 \text{ ml})$
PB.5274	Isopropyl alcohol 99% (200 ml)
PB.5275	Cleaning kit: lens cleaning fluid, lint free lens
	tissue, brush, air blower, cotton swabs
PB.5276	Microscope maintenance and servicing kit,

16pcs: cleaning brush, 6 pcs screwdriver set, air blower, 3 pcs Allen key, 1.5, 2, 2.5 mm, lens cleaning fluid 20 ml, cleaning cloth 140 x 140 mm, 100 pcs lens tissue sheets, tube of maintenance grease, 10 ml bottle of oil, packed in a nice toolbox

LIFE SCIENCE MICROSCOPES inverso

HIGHLIGHTS

- Life science applications
- Observation of tissue cultures, living cells
- Brightfield and phase contrast
- Long working distance IOS plan achromatic objectives
- Revolving quintuple nosepiece
- 5 W LED transmitted illumination
- 10 Years warranty

 Micromanipulator for intracytoplasmic sperm injection (ICSI)

Oxion Inverso

The Oxion Inverso inverted microscopes are useful for observation of living organisms and tissues cultures in cell culture dishes and flasks

The Oxion Inverso series is available in two configurations:

- · for brightfield and phase contrast
- · for fluorescence (see chapter on fluorescence)

Dedicated objectives are suitable for 1.2 mm thick glass bottoms of cell culture dishes and flasks



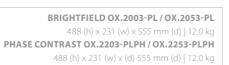












OX.2053-PLPH

SPECIFICATIONS

EYEPIECES

Pair of DIN HWF plan 10x/22 mm eyepieces

HEAD

Trinocular 45° inclined tubes with extended low and high positions for eyepieces. One diopter adjustment on left eyepiece. Interpupillary distance of 54 to 75 mm. Trinocular head with 100-0 % and 0-100 % positions

NOSEPIECE

Revolving quintuple nosepiece on ball-bearings

OBJECTIVES FOR BRIGHTFIELD

(models OX.2003-PL and OX.2053-PL) Infinity color corrected long working distance plan 10x/0.25, 20x/0.40, 40x/0.60 IOS objectives. An optional 60x/0.70 IOS objective is also available

OBJECTIVES FOR PHASE CONTRAST

(models OX.2003-PLPH and OX.2053-PLPH) Infinity color corrected long working distance plan phase 10x/0.25, 20x/0.40, 40x/0.60 IOS objectives

FLUAREX OBJECTIVES FOR BRIGHTFIELD

Infinity color corrected long working distance plan Fluarex 10x/0.30, 20x/0.45, 40x/0.65 IOS objectives. An optional plan Fluarex 60x/0.75 IOS objective is also available

FLUAREX OBJECTIVES FOR PHASE **CONTRAST**

Infinity color corrected long working distance plan Fluarex 10x/0.30 and plan phase Fluarex 20x/0.45 and S40x/0.65 IOS objectives

All objectives corrected for 1.2 mm thickness. Fluarex[™] objectives are made of low-absorption glass Fluarex[™] is a trademark of Euromex microscopen by

All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

STAGE

Stage 250 x 230 mm equipped with a coaxial mechanical 120 x 78 mm X-Y stage. Delivered with:

- Stage extension plate
- Metal insert for Ø 65 mm cell culture dish or Multiwell
- Metal insert for 76 x 26 mm slides and 54 mm cell dish (only for models with X-Y stage)
- · Optional universal cell culture holder

CONDENSER

N.A. 0.30 condenser with iris diaphragm.

Working distance 72 mm

The models for the phase contrast OX.2003-PLPH, OX.2053-PLPH, OX.2253-PLPHF and OX.2453-PLPHF are supplied with a slider with 4x/10x and 20x/40x pre-centered phase rings

FOCUSING ADJUSTMENT

Coaxial 25 mm coarse and fine adjustments, 2 µm precision and with friction adjustment

ILLUMINATION

Transmitted 5 W LED Intensity adjustable with internal 100-240 V power supply. Fuse holder 3.15 A / 250 V Oxion Inverso can be extended with fluorescence equipment

FILTERS FOR PHASE CONTRAST MODELS

Interference filter 550 nm green and blue filter, Ø 45 mm

PACKAGE CONTENT

Supplied with metal insert with Ø 25 mm hole, metal insert for Ø 35 mm cell culture dish, blue LBD and green 550 nm interference Ø 45 mm filter, power cord, dust cover and user manual. Phase contrast models are supplied with 4x/10x and 20x/40x phase contrast annuli in slider, green filter and alignment telescope

ICSI SET (AE.8000)

(Intracytoplasmic sperm injection)

- · Perfect for inexperienced users in need of training practice as well as for professionals
- Complete manual system
- · Large movement range
- Easy micropipette repositioning
- Adjustable micropipette holder angle between 20° and 40°
- Micropipette holder fixing knob reduces vibration and provides easy handling of the sperm
- · Easy installation and service
- · 3D Hydraulic manipulation joysticks for smooth movement
- · Pneumatic air injector for ICSI and holding
- · No service required for injector
- · Identical sensitive injectors on both sides and interchangeable
- · Top quality for affordable price
- · Medical device CE mark
- Movement range: X/Y/Z: 20 mm each, 1 mm for one complete turn of the handle
- · Optional heating stage with controller

Set includes two 3D hydraulic joysticks, two pipette setup mechanisms, one connection bar with moving handle, two air injectors with tubing and pen type micromanipulation, pipette holder, two metal plates for injectors, one set of Allen wrenches, one ruler for mechanic home position adjustment

MODELS	LWD Plan 10x/20x/40x objectives	LWD Plan phase 10x/20x/40x objectives	Mechanical stage	ICSI equipment
OX.2003-PL	•			
OX.2053-PL	•		•	
OX.2003-PLPH		•		
OX.2053-PLPH		•	•	
OX.2003-PLPH-ICSI		•		
OX.2053-PLPH-ICSI		•	•	

LWD = long working distance

HEATING STAGES AE.8010 AND AE.8015

Heating glass stage for Euromex microscope stage with 110 mm circular hole. The glass plate fits the circular opening of the X-Y stage and enables a flat glass object-plate with constant temperature. The stage has an aluminum frame for superior resistance and flatness. Glass thickness 0.5 mm. Plate diameter 110 mm



Controller AE.8010

- 2-Channel Temperature Controller with touchscreen interface
- One controller can control up to two devices
- · External temperature sensor (included) and self calibration routines allow easy calibration of the heating devices
- On-board data logging allows for recording temperature as a function of time and logging calibration events and alarms
- The password protected controller is equipped with routines to re-calibrate the sensors against certified thermometers
- Temperature range: from ambient to 60°C
- Temperature accuracy on specimen: ± 0.3°C
- 4.3" touch screen interface
- · External temperature sensor
- · On-board data logging to USB drive
- Alarm buzzer and external alarm connector
- One controller can control up to two devices
- Self calibration routines enable high temperature accuracy



Controller AE.8015

This is the economic and compact single-channel Temperature Controller version of the AE.8010. This model combines performance and simplicity at a economic price

- · Single channel Temperature controller with LCD display temperature control push buttons.
- · Small and robust while maintaining reliability
- Straight forward in usage
- Temperature range: from ambient to 60°C
- Set point Resolution: 0.1°C
- · One-Point Temperature Calibration and Adjustment



ACCESSORIES AND SPARE PARTS

EYEPIECES

OX.6010 HWF 10x/22 mm eyepiece OX.6015 HWF 15x/16 mm eyepiece OX.6110 HWF 10x/22 mm eyepiece with micrometer reticule

OX.6099 Pair of eyecups

PLAN OBJECTIVES FOR BRIGHTFIELD(1)

OX.8304	PL LWD 4x/0.10 IOS objective, WD 22 mm
OX.8310	PL LWD 10x/0.25 IOS objective, WD 7.94 mm
OX.8320	PL LWD 20x/0.40 IOS objective, WD 7.66 mm
OX.8340	PL LWD 40x/0.60 IOS objective, WD 3.71 mm
OX.8360	PL LWD 60x/0.70 IOS objective, WD 1.7 mm

PLAN FLUAREX OBJECTIVES FOR BRIGHTFIELD AND FLUORESCENCE(1)

OX.8604	PL FL LWD 4x/0.13 IOS objective, WD 18.5 mm				
OX.8610	PL FL LWD 10x/0.30 IOS objective, WD 7.1 mm				
OX.8620	PL FL LWD 20x/0.45 IOS objective, WD 5.91 mm				
OX.8640	PL FL LWD 40x/0.65 IOS objective, WD 1.61 mm				
OX.8660	PL FL LWD 60x/0.75 IOS objective, WD 1.04 mm				

PLAN PHASE CONTRAST OBJECTIVES(1) (2)

OX.8404	PLPH LWD 4x/0.13 IOS objective, WD 10.4 mm ⁽¹⁾
OX.8410	PLPH LWD 10x/0.25 IOS objective, WD 7.94 $\mathrm{mm}^{\scriptscriptstyle{(1)}}$
OX.8420	PLPH LWD 20x/0.40 IOS objective, WD 7.66 mm ⁽¹⁾
OX.8440	PLPH LWD 40x/0.60 IOS objective, WD 3.71 mm (1)

OBJECTIVES FOR FLUORESCENCE AND PHASE CONTRAST (1) (2) (3)

OX.8720	Plan phase Fluarex LWD 20x/0.45 infinity
	corrected IOS objective. WD 5.91 mm (1)
OX.8740	Plan phase Fluarex LWD 40x/0.65 infinity
	corrected IOS objective. WD 1.1 mm ⁽¹⁾

- (1) All objectives corrected for 1.2 mm cover glass thickness except OX.8304
- (2) Phase contrast objectives require slider with phase contrast annuli OX.9163
- (3) Phase contrast objectives require slider with phase contrast annuli OX.9163

All optical parts are anti-fungus treated

PHASE CONTRAST ATTACHMENTS

OX.9148	Telescope for phase contrast fluorescence
	alignment
OX.9149	Telescope for phase contrast alignment
OX.9190	Slider with 4x/10x and 20x/40x phase
	contrast annuli

CAMERA ACCESSORIES

UX.9810	CS/C mount with 1.0x objective
OX.9833	C-mount adapter with 0.33x objective
	for Oxion microscopes and 1/3" cameras
OX.9850	C-mount adapter with 0.5x objective for Oxion
	and Oxion Inverso microscopes and 1/2" camera
AE.5120-2	Trinocular 23.2 mm tube for Oxion photo port
	revision-2
AE.5130	Universal SLR camera adapter with 2x projection
	lens for 23.2 mm tubes
	Needs T2 adapter and AE.5120 or AE.5120-2
AE.5025	T2 adapter for Nikon D digital SLR cameras
AE.5040	T2 adapter for Canon EOS digital SLR cameras

STAGES AND HOLDERS

OX.9500	Mechanical coaxial X-Y 120 x 78 mm stage
OX.9506	Transparent glass insert with Ø 30 mm hole
OX.9508	Metal insert with Ø 25 mm hole
OX.9510	Metallic insert for Ø 65 mm cell culture dish
	and Multiwell
OX.9512	Metal insert with 76 x 26 mm slide holder
	and Ø 55 mm cell culture dish holder
OX.9535	Metal insert for Ø 35 mm cell culture dish holder
OX.9550	Stage extension plate
OX.9599	Universal cell culture dish holder



MICROMANIPULATOR ATTACHMENT

injection (ICSI) suitable with the Oxion Inverso
inverted microscope
Heating stage with transparent glass plate for
AE.8000 Micromanipulator, including advanced
digital temperature controller
Heating stage with transparent glass plate for
AE.8000 Micromanipulator, including basic

AE.8000 Micromanipulator for intracytoplasmic sperm

MISCELLANEOUS

OX.9700 Blue filter Ø 45 mm

OX.9985	5 W NeoLED™ replacement unit

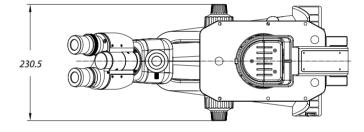
Glass fuses 3.15 A 250 V packed, per 10 pieces AE.3199

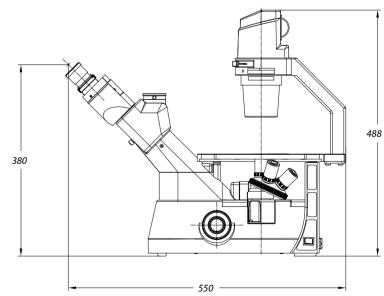
1-channel digital temperature controller

DISPOSABLES

PB.5155	Microscope slides 76 x 26 mm, ground edge		
	50 pieces		
PB.5165	Cover glasses 18 x 18 mm,		
	thickness 0.13 - 0.17 mm, 100 pieces		
PB.5168	Cover glasses 22 x 22 mm,		
	thickness 0.13 - 0.17 mm, 100 pieces		
PB.5245	Lens cleaning paper, 100 sheets per pack		
PB.5255	Immersion oil, n = 1.482 (25 ml)		
PB.5274	Isopropyl alcohol 99% (200 ml)		
PB.5275	Cleaning kit: lens cleaning fluid, lint free lens		
	tissue, brush, air blower, cotton swabs		

WD = working distance







 Accessories supplied with phase contrast models











PHASE CONTRAST DI.1053-PLPHFi

DI.1053-PLPHi

HIGHLIGHTS

- Life science applications
- Observation of tissue cultures, living cells
- Brightfield, phase contrast
- DIC (differential interference contrast)
- Long working distance IOS plan semi apochromatic objectives
- Revolving sextuple nosepiece
- 10 W LED or 100 W halogen transmitted illumination
- Backwards tilting condenser arm
- Easy placement of large objects
- 10 Years warranty

SPECIFICATIONS

EYEPIECES

Pair of DIN HWF plan 10x/25 mm or 10x/22 mm eyepieces with diopter adjustment (optional)

HEAD

Trinocular 45° inclined tubes. Interpupillary distance of 47 to 78 mm. Trinocular head with 100-0, 80/20 and 0/100 positions

NOSEPIECE

Revolving sextuple nosepiece on ball-bearings. The nosepiece can be equipped with DIC prisms for the 10x, 20x, 40x and 60x objectives

OBJECTIVES

High numerical infinity semi-apochromatic long working distance plan phase Fluarex PLPHFi 10x/0.30, 20x/0.45, S40x/0.60 IOS objectives enable the sub-cellular structures. An optional 4x/0.13 and 60x/0.70 IOS objectives are also available. The 20x, 40x and optional 60 objectives are equipped with collar adjustment ring for glass thicknesses from 0 to 1.2 mm

Fluarex[™] objectives are made of low-absorption glass. Fluarex[™] is a trademark of Euromex microscopen bv. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput



 Phase contrast brightfield and differential interference contrast condenser

STAGE

Stage 340 x 230 mm, equipped with a coaxial mechanical 130 x 85 mm X-Y stage. Supplied with:

- · Metal insert for O 38 mm cell culture dish
- Metal insert for O 54 mm cell culture dish or 76 x 26 mm slides
- Metal insert for Multiwell plates (127.76 x 85.48 mm)
- Metal insert for Teraski plates (83.3 x 58.0 mm)
- · Optional universal cell culture holder

CONDENSER

Rotating N.A. 0.55 condenser with 6 positions, iris diaphragm and filter holders. Working distance is 26 mm. Supplied with phase contrast annuli for 10x/20x, 40x and 60x objectives, brightfield position and slots for optional DIC prisms. Three filter holders allow the insertion of Ø 38 mm filters in the optical path. The arm with condenser can be tilted backwards for convenient access to the stage. This allows easy placement of large objects like flasks and Petri dishes

MAGNIFICATION CHANGER

A magnification changer with a 1.5x lens allows intermediary magnifications of 1.5 times the standard objective magnifications. For example switching from 20x to 30x or from 60x to 90x magnification can be done without the need to change objectives

FLUORESCENCE FILTER SET WHEEL

The Delphi-X Inverso is supplied with a 6-position fluorescence filter set wheel. See photo below. (More information on fluorescence in the Delphi-X Inverso fluorescence)



FOCUSING ADJUSTMENT

Coaxial 10 mm coarse and fine adjustments, 1 µm precision and with friction adjustment

ILLUMINATION

Transmitted 10 W LED or 100 W halogen Intensity adjustable with internal 100-240 V power supply. Fuse holder 5 A / 250 V. Delphi-X Inverso can be extended with fluorescence equipment

PACKAGE CONTENT

Supplied with metal insert for Ø 38 mm cell culture dish and a metal insert for Ø 54 mm cell culture dish with 76 x 26 mm slides, metal insert for Multiwell plates, metal insert for Teraski plates, blue and green interference Ø 38 mm filters, power cord, dust cover, green filter and alignment telescope and user manual

ICSL SET

(Intracytoplasmic sperm injection)

- · Perfect for inexperienced users in need of training practice as well as for professionals
- Complete manual system
- · Large movement range
- · Easy micropipette repositioning
- · Adjustable micropipette holder angle between 20° and 40°
- · Micropipette holder fixing knob reduces vibration and provides easy handling of the sperm
- Easy installation and service
- 3D Hydraulic manipulation joysticks for smooth movement
- Pneumatic Air Injector for ICSI and holding
- · No service required for injector
- Identical sensitive injectors on both sides and interchangeable
- · Top quality for affordable price
- Medical device CE mark
- Movement range: X/Y/Z: 20 mm each, 1 mm for one complete turn of the handle
- Optional heating stage with controller

Set includes two 3D hydraulic joysticks, two pipette setup mechanisms, one connection bar with moving handle, two air injectors with tubing and pen type micromanipulation, pipette holder, two metal plates for injectors, one set of Allen wrenches, one ruler for mechanic home position adjustment. Unit is packed in a solid carry case

HEATING STAGES AE.8010 AND AE.8015

Heating glass stage for Euromex microscope stage with 110 mm circular hole. The glass plate fits the circular opening of the X-Y stage and enables a flat glass object-plate with constant temperature. The stage has an aluminum frame for superior resistance and flatness. Glass thickness 0.5 mm. Plate diameter 110 mm

Controller AE.8010

- 2-Channel Temperature Controller with touchscreen interface
- · One controller can control up to two devices
- · On-board data logging allows for recording temperature as a function of time and logging calibration events and alarms

- The password protected controller is equipped with routines to re-calibrate the sensors against certified thermometers
- Temperature range: from ambient to 60°C
- Temperature accuracy on specimen: ± 0.3°C
- · 4.3" touch screen interface
- · Alarm buzzer and external alarm connector
- Self calibration routines enable high temperature accuracy

- Single channel Temperature controller with LCD display temperature control push buttons
- · Small and robust while maintaining reliability
- Straight forward in usage
- Temperature range: from ambient to 60°C
- Set point Resolution: 0.1°C
- · One-Point Temperature Calibration and Adjustment





Controller AE.8015

This is the economic and compact single-channel Temperature Controller version of the AE.8010. This model combines performance and simplicity at a economic price



Filters in sliders



MODELS	LWD Plan phase 10x/20x/540x objectives	100 W Halogen illumination	10 W LED illumination
DI.1053-PLPHFi	•		•
DI.2053-PLPHFi	•	•	



ACCESSORIES AND SPARE PARTS

EYEPIECES

Super wide field SWF 10x/22 mm eyepiece DI.6010 **DI.6010-C** Super wide field SWF 10x/22 mm eyepiece

with crosshairs

DI.6010-M Super wide field SWF 10x/22 mm eyepiece

with micrometer

DI.6010-CM Super wide field SWF 10x/22 mm eyepiece with micrometer and crosshairs

DI.6010-SG Super wide field SWF 10x/22 mm eyepiece with 20 x 20 square grid reticle

DI.6012 Wide field WF 12.5x/17.5 mm eyepiece DI.6015 Wide field WF 15x/16 mm eyepiece

Wide field WF 20x/12 mm eyepiece

DI.6099-L Eyecup for eyepiece

OBJECTIVES

DI.6020

DI.8704 Infinity semi-apochromatic long working distance plan phase Fluarex PLPHFi 4x/0.13

IOS objective. WD 16.8 mm

DI.8710 Infinity semi-apochromatic long working distance plan phase Fluarex PLPHFi 10x/0.30,

IOS objective PLPHi 10x/0.30 objective.

WD 10.2 mm

DI.8720 Infinity semi-apochromatic long working

distance plan phase Fluarex PLPHFi 20x/0.45

objective. WD 7.5 to 8.8 mm

DI.8740 Infinity semi-apochromatic long working

distance plan phase Fluarex PLPHFi S40x/0.60

IOS objective. WD 3 to 4.4 mm

DIFFERENTIAL INTERFERENCE CONTRAST

DI.9690-10 DIC prism for rotating disc condenser for life science Delphi-X Inverso models

DI.9690-20 DIC prism for rotating disc condenser for life science Delphi-X Inverso models

DI.9690-40 DIC prism for rotating disc condenser for life science Delphi-X Inverso models

DI.9693-10 DIC insert with prism to be used

DI.9693-20 DIC insert with prism to be used

with 10x objective DI.8710 and DI.9690-10

with 20x objective DI.8720 and DI.9690-20

DI.9693-40 DIC insert with prism to be used with 10x objective DI.8740 and DI.9690-40

MICROMANIPULATOR ATTACHMENT

AE.8000 Micromanipulator for intracytoplasmic sperm injection (ICSI) suitable with the Oxion Inverso

inverted microscope

AE.8010 Heating stage with transparent glass plate for

AE.8000 Micromanipulator, including digital temperature controller

AE.8015 Heating stage with transparent glass plate for

AE.8000 Micromanipulator, including basic

1-channel digital temperature controller

CAMERA ACCESSORIES

DI.9810 C-mount with 1x magnification for

C-mount camera

DI.9840 C-mount with high resolution 0.40x objective

for 1/3 inch C-mount camera

DI.9850 C-mount with high resolution relay 0.50x

objective for 1/2 inch C-mount camera

MISCELLANEOUS

DI.9191 Phase contrast annuli for 4x PLPHFi objective

DI.8404

DI.9961 100 Watt 12 V halogen bulb DI.9997 10 Watt LED replacement

AE.5214 500 mA 250 V fuses for LED models, 10pcs AE.5216 5 A 250 V fuses for Halogen models, 10pcs

DISPOSABLES

PB.5165

PB.5155 Microscope slides 76 x 26 mm, ground edges, 50 pieces per pack PB.5157-W Microscope slides 76 x 26 mm, ground edges and frosted side white color, 50 pieces per pack PB.5157-B Microscope slides 76 x 26 mm, ground edges and frosted side blue color, 50 pieces per pack

Cover glasses 18 x 18 mm, 0.13-0.17 mm,

100 pieces

PB.5168 Cover glasses 22 x 22 mm, 0.13-0.17 mm,

100 pieces

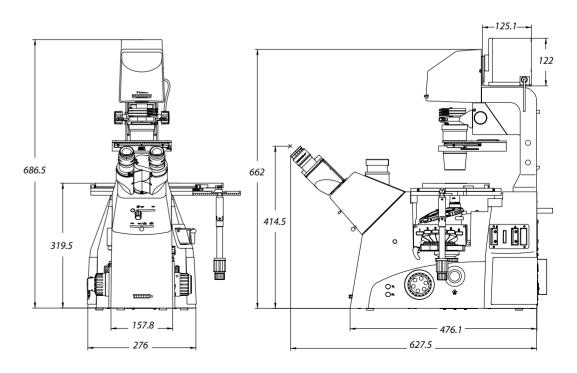
PB.5245 Lens cleaning paper, 100 sheets per pack

PB.5274 Isopropyl alcohol 99%, 200 ml

PB.5275 Cleaning kit: lens fluid, lint free lens tissue/paper,

brush, air blower, cotton swabs

WD = working distance





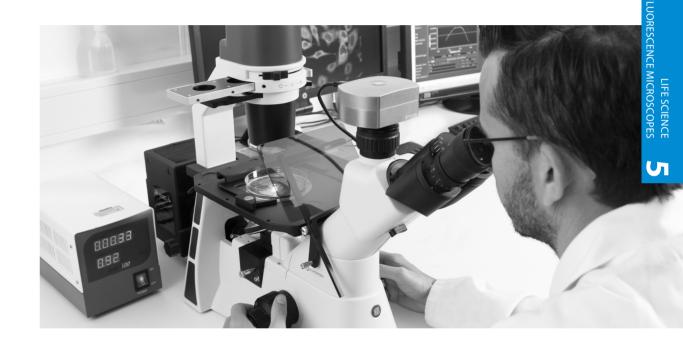


life science

fluorescence microscopes



fluorescence microscopes



Euromex offers a wide range of life science upright and inverted microscopes for researchers and biologists worldwide

On the next pages you will find all models that can be used in life science fluorescence applications, using mercury vapor lamps or LED technology together with optimized fluorescence filter sets

ISCOPE FLUORESCENCE • PAGE 160

BSCOPE FLUORESCENCE • PAGE 166

DELPHI-X OBSERVER FLUORESCENCE • PAGE 172

OXION FLUORESCENCE • PAGE 178

OXION INVERSO FLUORESCENCE • PAGE 184

DELPHI-X INVERSO FLUORESCENCE • PAGE 190

EUROMEX LED SOURCES • PAGE 196

FLUORESCENCE FILTER SETS • PAGE 198



The iScope® fluorescence microscope can be supplied with:

- · 6-position rotating attachment with 100 W mercury vapor light source
- 3-position slider attachment with 100 W mercury vapor light source
- · 1-position slider attachment with a 3 W NeoLED™ 465-475 nm blue light source
- 1-position slider attachment with a 3 W NeoLED™ 520-530 nm green light source











● IS.3152 PLi-3





IS.3153-EPLi / IS.3153-PLI / IS.3153-PLFi 407 (h) x 210 (w) x 255 mm (d) | 11.3 kg

















HIGHLIGHTS

- HWF 10x/22 mm eyepieces
- Binocular and trinocular models
- Optional ergonomic tilting head
- Quintuple revolving nosepiece
- E-Plan, plan and plan Fluarex corrected IOS objectives
- 187/230 x 140 mm rackless stage with integrated X-Y stage
- Optional ceramic stage
- Height adjustable Abbe condenser N.A. 1.25

- Coarse and fine adjustment
- Diascopic intensity adjustable 3 W NeoLED™ Köhler illumination
- Epi-fluorescence 100 W HBO mercury vapor
- Epi-fluorescence 460-495 nm or 510-550 nm 3 W LED
- iCare sensor for energy saving
- CSS Cable Storage System
- 10 Years warranty



IS.3153-PLFi/6

SPECIFICATIONS

EYEPIECES

Extended plan EWF 10x/22 mm eyepieces, Ø 30 mm tubes. Eyepieces can be secured to the tubes. The trinocular head of the plan infinity corrected models (IS.1153-PLi) has a light path selector (100:0 / 50:50) and \pm 5 diopter adjustments on both Ø 30 mm tubes. The trinocular head of the E-plan infinity corrected models (IS.1153-EPLi) has a fixed built-in light path beam splitter (50:50) and one \pm 5 diopter adjustment on the Ø 30 mm left tube

HEAD

Binocular and trinocular Siedentopf type heads are equipped with 30° inclined tubes, interpupillary distance from 48 to 76 mm and diopter adjustment(s). A unique rotating system allows the ergonomic positioning of both tubes in a high (431 mm) and in a low position (397 mm). The trinocular head comes with a Ø 23.2 mm photo port. An optional ergonomic tilting head and corresponding Ø 23.2 mm photo tube

attachment are also available (only infinity corrected models) To order an iScope® with tilting head use reference IS.3158-xxx

NOSEPIECE

Revolving and reversed nosepiece for a maximum of five objectives

OBJECTIVES

See table below

STAGE

- 187/230 x 140 mm rackless stage equipped with double slide holder and integrated 79 x 52 mm mechanical stage. The iScope® rackless stage has no protruding parts, enabling more smooth movements and is safer
- 220 x 157 mm ceramic stage with integrated 75 x 50 mm mechanical stage with a very tough ceramic surface, protects against marks and scratches. The surface also ensures stray light not to be reflected from the stage into the objective

OBJECTIVES

E-Plan EPLi IOS	4x/0.10	10x/0.25		S40x/0.65		S100x/1.25 oil
Plan PLi IOS	4x/0.10	10x/0.25	20x/0.40*	S40x/0.65	S60x/0.85*	S100x/1.25 oil
Plan PLFi IOS	4x/0.15	10x/0.35	20x/0.60*	S40x/0.75		S100x/1.30 oil

* optional: the plan Fluarex PLFi ™ objectives are suitable for violet and ultra violet excitation All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

LIFE SCIENCE
UORESCENCE MICROSCOPES

CONDENSER FOR BRIGHTFIELD

The standard height adjustable Abbe N.A. 1.25 condenser for brightfield accepts sliders with phase annuli suitable for plan phase 10x/20x or \$40x/\$100x oil immersion IOS objectives for economical phase contrast. With magnification indication. A slider with a simple dark stop for darkfield up to 400x magnification is also available

CONDENSER FOR ZERNIKE PHASE CONTRAST

An optional height adjustable Zernike NA. 1.25 phase contrast disc condenser with plan phase 10/20/S40x and S100x oil immersion objectives and darkfield stop position for darkfield contrast observation up to 400x magnification

FOCUSING

Coaxial coarse and fine adjustments, 200 graduations, 1 µm per graduation, 200 µm per rotation, total travel range is approximately 24 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control

ILLUMINATION

3 W adjustable Köhler NeoLED™ diascopic illumination with internal 100-240 V power supply

The innovative NeoLED™ design offers larger apertures, allowing the optical system of the iScope® microscope to produce images at higher resolutions, very close to the theoretical diffraction limit of the optics. Other benefits of the NeoLED™ is the low energy consumption, no heating and a long operating life span

The Köhler illumination on models with IOS plan and plan phase infinity corrected systems provides high contrast and a maximum achievable resolving power of the optics. Also available for other models as an option

ILLUMINATION FOR FLUORESCENCE

The 6-position rotating or 3-position slider fluorescence attachments are supplied with standard 100 W HBO mercury

vapor light source for a broad powerful light spectrum and 100-240 V external power supply with indication of the life span of 100 W HBO lamp.

Supplied with standard fluorescence filter sets for blue excitation (EX460-490 (BP) DM500 EM520 (LP)) and green excitation (EX510-550 (BP) DM570 EM590 (LP)) and a UV protection shield. Optional standard fluorescence filters for UV excitation (EX330-385 (BP) DM400 EM420 (LP)) and violet excitation (EX400-410 (BP) DM455 EM455 (LP))

The iScope® fluorescence microscopes equipped with a 100 W mercury vapor light source can be supplied with more specific, optimized and application related fluorescence filter sets

Two single position fluorescence attachments are supplied with EX 460-495 DM 505 EM 510-560 BP filter set and a 3 W 465-475 nm LED for blue excitation or EX 510-550 DM570 EM 590 LP filter set and a 3 W 520-530 nm LED light source for green excitation. Supplied with a 100-240 Vac/7.5 Vdc external power supply

ICARE SENSOR

The unique iCare Sensor is developed to avoid unnecessary loss of energy. The illumination of the microscope automatically switches off shortly after microscopists step away from their position

CSS-CABLE STORAGE SYSTEM

iScope® allows users to easily insert the power cable into the back of the instrument, which enables easy storage

The integrated carrying grip at the back of the microscope ensures safe transportation of the microscope

PACKAGE CONTENT

Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil for models with S100x objective. Models with 100 W mercury vapor light source have a UV protection shield. All packed in polystyrene boxes

6-POSITION ROTATING ATTACHMENT

With 100 W mercury vapor light source. The 6-position rotating fluorescence attachments are supplied with a standard 100 W HBO mercury vapor light source for a broad powerful light spectrum. Supplied with standard fluorescence filter sets for excitation in the blue and areen light spectrum and a UV protection shield

MODELS	Bino	Trino	WF 10x/22 mm	Diopter adjustable on left side	Diopter adjustable on both sides	E-plan EPLi 4x/10x/S40x and S100x objectives	Plan PLi 4x/10x/540x and S100x objectives	Plan PLF 4x/10x/S40 and S100x objectives	100 W HBO light source	Filter sets (blue & green)	NeoLED™ illumination
IS.3152-EPLi/6				•		•				•	•
IS.3153-EPLi/6		•		•		•				•	•
IS.3152-PLi/6							•			•	•
IS.3153-PLi/6		•	•		•		•				
IS.3152-PLFi/6			•		•					•	•
IS.3153-PLFi/6		•	•		•			•		•	•

3-POSITION SLIDER ATTACHMENT

With 100 W mercury vapor light source. The 3-position slider fluorescence attachments are supplied with standard 100 W HBO mercury vapor light source for a broad powerful light spectrum. Supplied with standard fluorescence filter sets for blue and green excitation and a UV protection shield

MODELS	Bino	Trino	WF 10x/22 mm	Diopter adjustable on left side	Diopter adjustable on both sides	E-plan EPLi 4x/10x/540x and S100x objectives	Plan PLi 4x/10x/540x and S100x objectives	Plan PLF 4x/10x/540x and S100x objectives	100 W HBO light source	Filter sets (blue & green)	NeoLED™ illumination
S.3152-EPLi/3	•					•				•	•
S.3153-EPLi/3		•	•	•		•			•	•	•
S.3152-PLi/3	•		•		•		•		•	•	•
S.3153-PLi/3			•		•		•		•		•
S.3152-PLFi/3	•									•	•
IS.3153-PLFi/3										•	•

1-POSITION SLIDER ATTACHMENT

Blue: single position slider fluorescence attachment with a 3 W NeoLED™ 465-475 nm blue light source and with a 460-495 nm filter for blue excitation (/L). Green: single position slider fluorescence attachment with a 3 W NeoLED™ 520-530 nm green light source and with a 510-550 nm filter for green excitation (/G)

MODELS	Bino	Trino	WF 10x/22 mm	Diopter adjustable on left side	Diopter adjustable on both sides	E-plan EPLi 4x/10x/S40x and S100x objectives	Plan PLi 4x/10x/S40x and 100x objectives	Plan PLF 4x/10x/S40x and S100x objectives	Blue excitation 460-495 nm	Green excitation 520-530 nm	NeoLED™ illumination
IS.3152-EPLi/LB	•		•			•			•		•
IS.3153-EPLi/LB		•	•	•		•			•		•
IS.3152-PLi/LB	•		•				•		•		•
IS.3153-PLi/LB		•	•		•		•		•		•
IS.3152-PLFi/LB	•		•					•	•		•
IS.3153-PLFi/LB		•	•		•			•	•		•
IS.3152-EPLi/LG	•		•	•		•				•	•
IS.3153-EPLi/LG		•	•	•		•				•	•
IS.3152-PLi/LG	•		•				•			•	•
IS.3153-PLi/LG		•	•		•		•			•	•
IS.3152-PLFi/LG	•		•		•			•		•	•
IS.3153-PLFi/LG		•	•		•			•		•	•



ACCESSORIES AND SPARE PARTS

EYEPIECES

LILITE			
IS.6210	EWF 10x/22 mm eyepiece (Ø 30mm tube)	IS.7260	Plan PLi S60x/0.85 IOS objective. WD 0.14 mm
IS.6210-C	EWF 10x/22 mm eyepiece with crosshairs	IS.7200	Plan PLi S100x/1.25 IOS objective. WD 0.13 mm
	(Ø 30 mm tube)	IS.7200-I	Plan super contrast PLi S100x/1.25 IOS objective
IS.6210-P	EWF 10x/22 mm eyepiece with pointer		with built-in iris diaphragm. WD 0.13 mm
	(Ø 30 mm tube)	IS.7404	Plan Fluarex PLFi 4x/0.15 IOS objective.
IS.6210-CN	1 EWF 10x/22 mm eyepiece with 10/100		WD 21.6 mm
	micrometer and crosshairs (Ø 30 mm tube)	IS.7410	Plan Fluarex PLFi 10x/0.35 IOS objective.
IS.6212	WF 12.5x/17 mm eyepiece (Ø 30 mm tube)		WD 2.9 mm
IS.6215	WF 15x/16 mm eyepiece (Ø 30 mm tube)	IS.7420	Plan Fluarex PLFi 20x/0.60 IOS objective.
IS.6220	WF 20x/12 mm eyepiece (Ø 30 mm tube)		WD 1.5 mm
IS.6299	Pair of eyecups infinity models	IS.7440	Plan Fluarex PLFi S40x/0.75 IOS objective.
			WD 0.6 mm
OBJECT	IVES	IS.7400	Plan Fluarex PLFi S100x/1.30 IOS objective.
IS.7104	E-plan EPL 4x/0.10 objective. WD 15.2 mm		WD 0.13 mm
IS.7110	E-plan EPL 10x/0.25 objective. WD 5.5 mm	IS.8910	Plan PLPHi 10x/0.25 phase contrast IOS infinity
IS.7120	E-plan EPL 20x/0.40 objective. WD 3.5 mm		corrected objective. WD 10.2 mm
IS.7140	E-plan EPL S40x/0.65 objective. WD 0.45 mm	IS.8920	Plan PLPHi 20x/0.40 phase contrast IOS infinity
IS.7160	E-plan EPL S60x/0.85 objective. WD 0.19 mm		corrected objective. WD 5.1 mm
IS.7100	E-plan EPL S100x/1.25 objective. WD 0.13 mm	IS.8940	Plan PLPHi S40x/0.65 phase contrast IOS infinity
			corrected objective. WD 0.5 mm
IS.7710	Plan PLPH 10x/0.25 phase contrast objective.	IS.8900	Plan PLPHi S100x/1.25 phase contrast IOS infinity
	WD 12.2 mm		corrected objective. WD 0. 13 mm
IS.7720	Plan PLPH 20x/0.40 phase contrast objective.		
	WD 5 mm	CONDE	NSERS
IS.7740	Plan PLPH S40x/0.65 phase contrast objective.	IS.9102	Standard Abbe condenser 1.25 NA condenser
	WD 0.37 mm		with slot for darkfield and phase contrast sliders
IS.7700	Plan PLPH S100x/1.25 phase contrast objective.	IS.9105	Swing-out 0.9/1.25 NA condenser
	WD 0.13 mm		
		PHASE	CONTRAST ATTACHMENTS
IS.8804	E-plan EPLi 4x/0.10 IOS objective. WD 15.4 mm	IS.9124	Zernike phase contrast set PLPH 10/20/40/100
IS.8810	E-plan EPLi 10x/0.25 IOS objective. WD 5.8 mm		brightfield and darkfield position
IS.8840	E-plan EPLi S40x/0.65 IOS objective. WD 0.43 mm	IS.9127	Zernike phase contrast set PLPHi 10/20/40/100
IS.8800	E-plan EPLi S100x/1.25 IOS objective. WD 0.13 mm		IOS brightfield and darkfield position
		IS.9148	Telescope for phase contrast Ø30 mm tube
IS.7202	Plan PLi 2x/0.05 IOS objective, WD 18.3 mm.	IS.9149	Telescope for phase contrast Ø 23.2 mm tube
	Best used together with swing-out condenser	IS.9160	Phase contrast slider set with 10x and S40x PLPH
IS.7204	Plan PLi 4x/0.10 IOS objective. WD 15.4 mm		objectives and annuli for 10/S40x PLPH objectives.
IS.7210	Plan PLi 10x/0.25 IOS objective. WD 10 mm		Also suitable for optional 20x PLPH objective

IS.9161

Phase contrast slider set with 20x and S100x PLPH

objectives and annuli for 20x/S100x PLPH objectives

IS.9162	Phase contrast slider set with 10x and S40x PLPHi IOS
	infinity corrected objectives and annuli for 10x/S40x
	PLPHi IOS infinity corrected objectives. Also suitable
	for optional 20x PLPHi infinity corrected objective
IS.9163	Phase contrast slider set with 20x and S100x PLPHi
	IOS infinity corrected objectives and annuli for 20x/
	S100x PLPHi IOS infinity corrected objectives
IS.9194	Slider with phase contrast annuli for S40 phase

POLARIZATION ATTACHMENTS

contrast objective

IS.9600	Polarization filter 45 mm for lamphouse
IS.9601	Polarization set: simple rotating polarizer for
	lamphouse and fixed polarizer mounted under hea
IS.9626	Polarization filter for mounting under the head

FILTERS

IS.9700	Blue filter 45 mm for lamphouse
IS.9702	Green filter 45 mm for lamphouse
IS.9704	Yellow filter 45 mm for lamphouse
IS.9706	White opaque filter 45 mm for lamphouse

MISCELLANEOUS

IS.9170 Slider with darkfield stop

IS.9503	Large ceramic stage. Only with new microscopes
	add /C suffix after iScope® model part number
IS.9880	Köhler attachment
IS.9749-6	Empty filter cube for 6-position
	fluorescence attachment
IS.9749-3	Empty filter cube for 3-position
	fluorescence attachment
IS.9749-1	Empty filter cube for 1-position
	fluorescence attachment
IS.9753	Filter rail, 3-position
AE.3684	Glass fuses 500 mA 250 V, 10 pieces
AE.5168-	Heating stage series with controller,
	only with new microscopes
SL.1385	100 W HBO mercury vapor lamp for fluorescence
SL.5500	NeoLED™ replacement unit

CAMERA ACCESSORIES

IS.9800	Single photo tube attachment with one Ø 23.2 mm
	tube for IS.5700 ergonomic tilting head of iScope®
	infinity systems

AE.5130 Universal SLR adapter with built-in 2x lens for standard 23.2 mm tube. Needs T2 adapter

AE.5025 T2 adapter for Nikon D SLR digital camera

AE.5040 T2 adapter for Canon EOS SLR digital camera

DISPOSABLES

PB.5155	Microscope slides 76 x 26 mm, ground edges
	50 pieces per pack

PB.5165 Cover glasses 18 x 18 mm, 0.13-0.17 mm, 100 pieces

PB.5168 Cover glasses 22 x 22 mm, 0.13-0.17 mm, 100 pieces

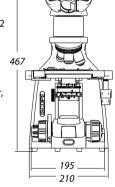
PB.5245 Lens cleaning paper, 100 sheets per pack

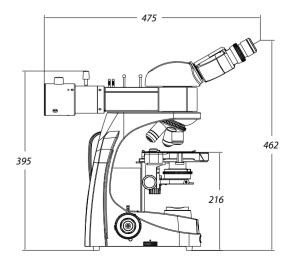
PB.5255 Immersion oil, 25 ml. Refraction index n = 1.482

PB.5274 Isopropyl alcohol 99%, 200 ml

PB.5275 Cleaning kit: lens fluid, lint free lens tissue/paper, brush, air blower, cotton swabs

WD = working distance







Plan PLi 20x/0.40 IOS objective. WD 5.1 mm

Plan PLi S40x/0.65 IOS objective. WD 0.54 mm

IS.7220

IS.7240





fluorescence

The bScope® microscope for fluorescence microscopy comes in two versions. One version is equipped with four monochromatic LEDs and the second version is equipped with a traditional 100 W mercury vapor light source for a larger excitation light spectrum

The microscopes are supplied with routine fluorescence filter sets and dichroic mirrors for excitation in the blue, green, violet and ultraviolet spectral regions

































HIGHLIGHTS

- Trinocular models
- WF 10x/22 mm eyepieces
- Reversed ball-bearing quintuple nosepiece with slot for polarization filter
- E-plan IOS, plan IOS and plan Fluarex IOS objectives
- Rackless integrated X-Y mechanical stage
- Epi-fluorescence illumination with four monochromatic LEDs or a 100 W HBO mercury vapor lamp
- 3 W NeoLED™ adjustable transmitted illumination
- Integrated carrying grip
- Cable storage system and anti-theft system
- 10 Years warranty



BS.3153-PLi

SPECIFICATIONS

EYEPIECES

Wide field HWF 10x/22 mm secured eyepieces (Ø 30 mm tube)

HEAD

The bScope® is equipped with a Siedentopf type head and with 30° inclined Ø 30 mm tubes and with a \pm 5 diopter adjustment on left eyepiece. The interpupillary distance is adjustable between 48 to 76 mm

The trinocular head comes with a Ø 23.2 mm tube, ensuring maximum flexibility. The prisms inside the heads are designed to minimize the light absorption for perfect digital imaging. The trinocular head has a light path selector (100:0 / 0:100) and generates an erect image

NOSEPIECE

Revolving and reversed ball-bearing quintuple nosepiece

OBJECTIVES

The state-of-the-art production techniques and multi layer coatings used for the manufacturing of the bScope® objectives enable the bScope® to be used for the most demanding applications. World class spherical aberration correction and modern CNC and assembly technology ensure the perfect centering of the objectives

- E-plan or plan infinity corrected EPLi or PLi 4x/0.10, 10x/0.25, 20x/0.40, S40x/0.65, S60x/0.85 and S100x/1.25 oil immersion IOS objectives for applications where violet or Ultra-Violet excitation is not needed
- Plan Fluarex infinity corrected PLFi 4x/0.10, 10x/0.25, 20x/0.40, S40x/0.65 and S100x/0.90 IOS objectives for applications where either higher resolving power or violet or ultra-violet excitation is needed

All S40x, S60x and S100x oil immersion objectives are spring loaded. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

TRINOCULAR MODELS

505 (h) x 195 (w) x 450 mm (d) | 8.8 kg

oscope

BS.3153-PLi

FOCUSING

Double coaxial, low-positioned coarse and fine adjustments with 180 graduations, Precision 1.1 um, 200 um per rotation, total travel range is approximately 19 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustment is equipped with friction control

STAGE

The bScope® is equipped with a scratch-resistant 152/197 x 131 mm stage with integrated 75 x 36 mm X-Y rackless mechanical stage. Vernier scale, soft-close removable specimen holder. The rackless stage has no protruding parts, enables more smooth movements and is safer in use. Lowpositioned X-Y control knobs prevent fatigue during long working sessions

CONDENSER FOR BRIGHTFIELD

The standard height adjustable Abbe N.A. 1.25 condenser for brightfield comes with an iris diaphragm and swing-out filter holder

CONDENSER FOR ZERNIKE PHASE CONTRAST

The height adjustable Zernike NA. 1.25 phase contrast disc condenser comes with phase annuli for 10/20/S40x and S100x phase contrast objectives, an iris diaphragm, a swing-out filter holder and also a BF position for brightfield contrast. Phase contrast objectives are available in either EPL-PHi or PL-PHi versions. Supplied with alignment telescope and green filter

CONDENSER FOR SIMPLE PHASE CONTRAST

The height adjustable NA. 1.25 simple phase contrast condenser has a free slot for either a slider for 10/S40x phase contrast objectives, or a slider for 20/S100x phase contrast objectives. The condenser has an iris diaphragm and filter holder. The condenser includes a BF position for brightfield contrast with an iris diaphragm and filter holder. Phase contrast objectives available in either EPL-PHi or PL-PHi version. Supplied with alignment telescope and green filter

POLARIZATION

The bScope® has an integrated slot above the nosepiece for an optional polarization filter

FLUORESCENCE ATTACHMENT

- Epi-illumination with four 5 W LEDs for fluorescence excitation from 450 to 470 nm (blue), 515 to 535 nm (green), 390 to 400 (violet) and 360 to 370 nm (ultraviolet). External 100-240 V power supply
- Epi-illumination with 100 W HBO mercury vapor lamp. External 110 or 230 V power supply
- Fluorescence filter set for blue excitation (EX450-490 (BP) DM505 EM515 (LP)), green excitation (EX495-555 (BP) DM580 EM595 (LP)), UV excitation (EX320-380 (BP) DM420 EM435 (LP)) and violet excitation (EX380-415 (BP) DM460 EM475 (LP))
- · Supplied with UV protection shield

NEOLED™ TRANSMITTED ILLUMINATION

The 3 W adjustable Köhler NeoLED™ transmitted illumination is powered by an internal 100-240 V power supply making it suitable for worldwide use. The innovative NeoLED™ design offers larger apertures, allowing the optical system of the bScope® microscope to produce images at higher resolutions, very close to the theoretical diffraction limit of the optics. Other benefits of the NeoLED™ is the low energy consumption, no heating and a long operating life span

KÖHLER ILLUMINATION

A Köhler illumination ensures for all infinity corrected IOS models the highest possible contrast and the maximum achievable resolving power. Generates a uniform illumination

Ergonomic carrying grip for easy transportation



of the sample and eliminates all interference from dust on lenses and side glare of the light source

CORDLESS USE

The optional rechargeable batteries turn the bScope® into a cordless system for transmitted illumination

CSS - CABLE STORAGE SYSTEM

Allows users to easily stow away excess cable length into the back of the instrument during operation and to roll up the power cable for easy storage

CARRYING GRIP

The integrated carrying grip at the back of the microscope ensures safe transportation of the microscope

ANTI-THEFT SLOT

At the back of the microscope a Kensington Security Slot is placed, which can be used to secure the instrument from theft

PACKAGE CONTENT

Smart styrofoam packaging ensures a low environmental footprint while maintaining maximum safety during transport. Supplied with power cord, dust cover, tools,

a spare fuse, white filter, user manual and 5 ml immersion oil



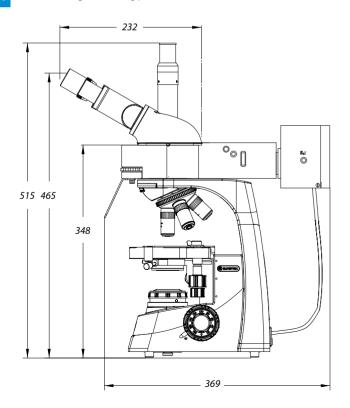
BSCOPE® WITH EPI-FLUORESCENCE 4 LED ILLUMINATION (BLUE, GREEN, VIOLET AND ULTRA-VIOLET)

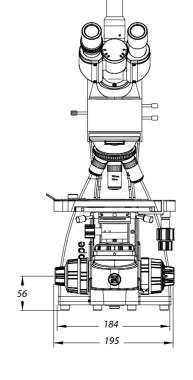
MODELS	Trinocular	HWF 10x/22 mm eyepieces	Quintuple nosepiece E-plan EPLi 4/10/S40/S100x	Quintuple nosepiece Plan PLi 4/10/S40/ S100x	Quintuple nosepiece Plan Fluarex PLFi 4/10/S40/ S100x *
BS.3153-EPLi	•	•	•		
BS.3153-PLi		•		•	
BS.3153-PLFi		•			•

BSCOPE® WITH EPI-FLUORESCENCE 100 W HBO MERCURY VAPOR LAMP ILLUMINATION

MODELS	Trinocular	HWF 10x/22 mm eyepieces	Quintuple nosepiece E-plan EPLi 4/10/S40/S100x	Quintuple nosepiece Plan PLi 4/10/540/ S100x	Quintuple nosepiece Plan Fluarex PLFi 4/10/S40/ S100x *
BS.3153-EPLi/HBO	•	•	•		
BS.3153-PLi/HBO	•	•		•	
BS.3153-PLFi/HBO					

*The plan Fluarex infinity corrected IOS objectives are recommended for applications where either higher resolving power or violet or ultra-violet excitation is needed





ACCESSORIES AND SPARE PARTS

EYEPIECES

BS.6310	WF 10x/22 mm eyepiece
BS.6310-M	WF 10x/22 mm eyepiece
BS.6315	WF 15x/12 mm eyepiece, Ø 30 mm tube
BS.6399	Pair of eyecups, Ø 30 mm tube

OBJECTIVES

BS.8204	E-plan EPLi 4x/0.10 IOS objective. WD 18.9 mm
BS.8210	E-plan EPLi 10x/0.25 IOS objective. WD 5.95 mm
BS.8220	E-plan EPLi 20x/0.40 IOS objective. WD 2.61 mm
BS.8240	E-plan EPLi S40x/0.65 IOS objective. WD 0.78 mm
BS.8200	E-plan EPLi S100x/1.25 oil immersion IOS
	objective. WD 0.36 mm
BS.8404	Plan PLi 4x/0.10 IOS objective. WD 21.0 mm
BS.8410	Plan PLi 10x/0.25 IOS objective. WD 5.0 mm
BS.8420	Plan PLi 20x/0.40 IOS objective. WD 8.8 mm
BS.8440	Plan PLi S40x/0.65 IOS objective. WD 0.66 mm
BS.8400	Plan PLi S100x/1.25 oil immersion IOS objective.
	WD 0.36 mm
86.550	Plan Fluarex 4x /0.15 IOS objective. WD 21.6 mm
86.552	Plan Fluarex 10x/0.35 IOS objective. WD 2.9 mm
86.554	Plan Fluarex 20x/0.60 IOS objective. WD 1.5 mm
86.556	Plan Fluarex S40x/0.75 infinity corrected IOS
	objective. WD 0.6 mm
86.558	Plan Fluarex S100x/0.90 IOS objective.
	WD 0.62 mm
BS.7400	Plan Fluarex S100x/1.30 oil immersion
	IOS objective. WD 0.13 mm

WD = working distance

For phase contrast equipment and accessories, see chapter 4 Life science, bScope®

CONDENSEDS

CONDENSERS		
BS.9102	Abbe condenser 1,25 NA with slot for darkfield	
	and phase contrast sliders	
BS.9170	Slider with darkfield stop for standard Abbe	
	condenser with slot	
BS.9105	Swing-out Abbe condenser 0.9/1.25 NA	

POLARIZATION ATTACHMENTS

BS.9647	Polarization polarizer Ø 6 mm for slider under
	bScope® head
BS.9651	Polarization attachment for lamphouse of bScope
	with 360° scale

MISCELLANEOUS

AE.1370	Set of rechargeable batteries, three pieces
SL.1385	100 W HBO mercury vapor lamp for fluorescence

CAMERA ACCESSORIES

BS.9993 NeoLED™ replacement unit

AE.5130	Universal Ø 23.2 mm tube adapter with built-in	
	2xlensforSLRphotocamerawithAPS-Csensor.	
	Needs T2 adapter	
AE.5025	T2 adapter for Nikon D SLR digital camera	

AL.3023	12 ddapter for Mkon D SER digital camera
AE.5040	T2 adapter for Canon EOS SLR digital camer

DISPOSABLES

PB.5155	Microscope slides 76 x 26 mm, ground edges,	
	50 pieces	

PB.5165	Cover glasses 18 x 18 mm,
	thickness 0.13-0.17 mm, 100 pieces

PB.5108	Cover glasses 22 x 22 mm,	
	thickness 0.13-0.17 mm, 100 pieces	

PB.5245	Lens cleaning paper,	100 sheets per pac
---------	----------------------	--------------------

PB.5255	Immersion oil (25 ml). $n = 1.482$
PB.5274	Isopropyl alcohol 99% (200 ml)

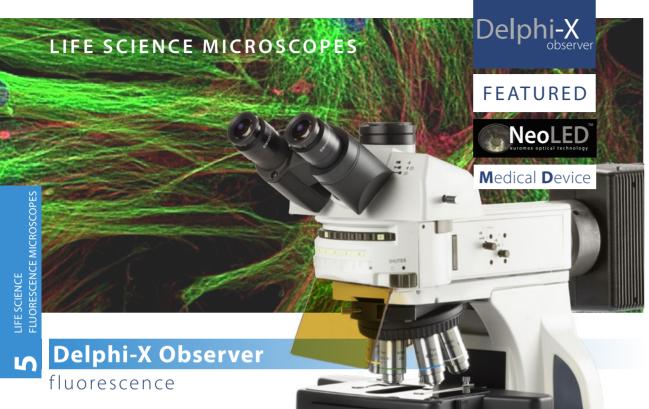
PB.5275	Cleaning kit: lens cleaning fluid, lint free lens tissue/
	paper, brush, air blower, cotton swabs

PB.5276 Microscope maintenance and servicing kit, 16pcs: cleaning brush, 6 pcs screwdriver set, air blower, 3 pcs Allen key, 1.5, 2, 2.5 mm, lens cleaning fluid 20 ml, cleaning cloth 140 x 140 mm, 100 pcs lens

tissue sheets, tube of maintenance grease, 10 ml

bottle of oil, packed in a nice toolbox





State-of-the-art microscopes for advanced life science fluorescence applications. The outstanding optical performance of the Delphi-X Observer[™] makes it ideal for life science fluorescence applications, where a high performance optical system is required. The larger 25 mm fields of view of the super wide field eyepieces and the high numerical aperture of the plan Fluarex 60 mm parfocal EIS objectives enable perfect observations and color rendering at high resolving power



DX.3153-PLi

454 (h) x 260 (w) x 367 mm (d) | 26 kg DX.3153-PLi/HAL

454 (h) x 260 (w) x 480 mm (d) | 26.5 kg



- Trinocular model
- Ergonomic tilting head
- Super wide field SWF 10x/25mm, Ø 30 mm tubes
- Sextuple reversed nosepiece
- **Enhanced infinity corrected EIS optical system**
- 60 mm parfocal plan EIS objectives
- 60 mm parfocal plan semi-apochromatic EIS objectives
- M25 objective thread mounting
- 100 W HBO mercury vapor illumination
- 3 W NeoLED™ illumination
- 100 W halogen illumination

SPECIFICATIONS

EYEPIECES

- Super wide field SWF 10x/25 mm, Ø 30 mm tubes
- Extended wide field EWF 10x/22 mm, Ø 30 mm tubes

STANDARD HEAD

Siedentopf trinocular head with 30° inclined tubes. Interpupillary distance adjustable between 47 and 78 mm. Three position beam splitter (0:100/80:20 / 100:0). Diopter ± 5 adjustments on both eyepieces

ERGONOMIC TILTING HEAD

Optional ergonomic 0 to 35° tilting trinocular head supplied with SWF 10x/25 mm eyepieces, interpupillary distance 47-78 mm and photo tube, standard with Ø 23.2 mm tube

NOSEPIECE

Revolving sextuple reversed nosepiece on ball-bearings with 25 mm mounting threads for objectives

MOTORIZED MODEL

The Delphi-X Observer[™] can be supplied with a motorized revolving sextuple reversed nosepiece together with a flipdown condenser. A precise step-motor allows the user to switch from objective by a simple push of a button. Another button allows quick switching between two preselected

objectives. The electronics memorize automatically the light intensity levels for each objective after switching. The electronics also automatically flip-out the front lens of the flip-down condenser when the 4x objective is used

ENHANCED INFINITY SYSTEM (EIS)

Tilting head

The enhanced infinity system (EIS) of the Delphi-X Observer™ consists of super wide field SFWF 10x25 mm eyepieces, high numerical aperture 60 mm parfocal objectives and a 200 mm focal length tube lens. This tube lens reduces the angle of the light rays passing through the optics and as a direct result it significantly improves the chromatic aberration corrections and contrast of the images produced. The objectives with larger diameter enable much higher numerical apertures, improving the overall resolving power of the optical system

PLAN ACHROMATIC EIS OBJECTIVES

(clinical routine applications)

The Delphi-X Observer™ is supplied with plan achromatic 4x/0.10, 10x/0.25, 20x/0.40, S40x/0.65 and S100x/1.25 (oil immersion) infinity corrected EIS objectives Available as an option:

2x/0.06, S50x/0.95 (oil immersion) and S60x/0.80



OBJECTIVES

Plan PLi	2x/0.06*	4x/0.10	10x/0.25	20x/0.40	S40x/0.65	S50x/0.95 oil*	S60x/0.80*	S100x/1.25 oil	S100x/1.25 oil iris*
Plan semi-apo Fluarex		4x/0.13	10x/0.30	20x/0.50	S40x/0.75			S100x/1.30 oil	

All objectives are 60 mm parfocal and have a M25 mounting thread, all optics are anti-fungus treated and anti-reflection coated for maximum light throughput and all S40x, S50x, S60x and S100x objectives are spring loaded * Optional

PLAN SEMI-APOCHROMATIC FLUAREX **OBJECTIVES**

(Anatomo- and histopathology applications)

The Delphi-X Observer[™] can also be supplied with plan semi-apochromatic 4x/0.13, 10x/0.30, 20x/0.50, S40x/0.75 and S100x/1.30 (oil immersion) infinity corrected EIS objectives

STAGE

190 x 152 mm stage with 78 x 32 mm integrated right-handed mechanical stage. Supplied with scratch-resistant Gorilla glass. Sapphire scratch-resistant glass is available on request. Left-handed mechanical stage is available on request

FOCUSING

Coaxial coarse and fine adjustment, 100 graduations, 1 μm precision, 100 μm per rotation, total travel range is approximately 35 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control. The focusing knobs can be switched from left to right according to the user's preference

CONDENSER FOR BRIGHTFIELD

In height adjustable N.A. 0.90/1.25 Abbe swing-out condenser with numerical aperture identification marks

ILLUMINATION FOR FLUORESCENCE

The attachment for fluorescence of the Delphi-X Observer™ is equipped with a rotating block which can contain up to six filter cubes and supplied with 100 W HBO mercury vapor light source for a broad powerful light spectrum

DIASCOPIC ILLUMINATIONS

Two Köhler illuminations are available for the Delphi-X Observer[™] microscope:

- Diascopic intensity adjustable 3 W NeoLED™ Köhler illumination with internal 100-240 V power supply
- Diascopic intensity adjustable 100 W halogen Köhler illumination with internal 100-240 V power supply

The diascopic halogen illumination comes with two push-in/ push-out neutral density filters for smooth attenuation of the light intensity for all kind of samples. The diascopic NeoLED™ illumination comes with one neutral density filter

LIGHT INTENSITY MEMORY FUNCTION

The electronics memorize automatically the light intensity levels for each objective after switching. The electronics also automatically flip out the front lens of the flip-down condenser when the 4x objective is used. Optionally available, only for a new Delphi-X Observer

NEOLED™

The innovative NeoLED™ design is a combination of a custom LED and a specially designed thin lens with a short focal length in order to obtain three main benefits:

- · More oblique light from the LED light source can be captured, which increases the light output significantly
- · Less energy is required to achieve this level of light intensity
- The larger aperture of NeoLED™ allows the optical system to produce images at higher resolutions, very close to the theoretical diffraction limit of the optics

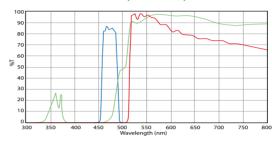
ICARE SENSOR

The unique iCare Sensor is developed to avoid unnecessary loss of energy. The illumination of the microscope automatically switches off shortly after microscopists step away from their position

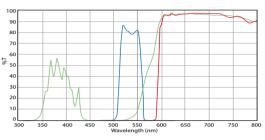
STANDARD GENERAL PURPOSE FLUORESCENCE FILTER SETS

Supplied with standard fluorescence filter sets for blue excitation (EX460-490 DM500 EM520LP) and green excitation (EX510-550 DM570 EM590LP), UV shield and external power supply. Optional: fluorescence filter sets for UV excitation (EX330-385 DM400 EM420LP) and violet excitation (EX400-410 DM455 EM460LP)

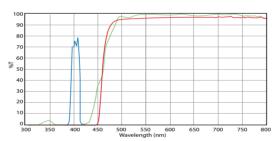
BLUE EXCITATION (DX.9745)



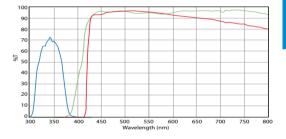
GREEN EXCITATION (DX.9746)



VIOLET EXCITATION (DX.9747)



ULTRA-VIOLET EXCITATION (DX.9748)



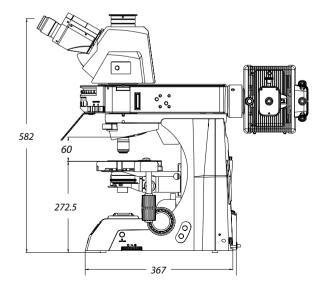
Other with more specific and optimized and application related fluorescence filter sets are also available

CARRYING GRIP

The carrying grip at the back of the microscope ensures safe transportation of the microscope and the integrated tool & holder makes sure the right tool is always available

PACKAGE CONTENT

Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil. All packed in a polystyrene box





DELPHI-X OBSERVER FOR FLUORESCENCE WITH TRINOCULAR HEAD

MODELS	SWF 10x/25 mm eyepieces	Plan 4/10/20/S40/ S100x oil EIS objectives	Plan semi-apo Fluarex 4/10/20/ S40/S100x oil EIS objectives	3 W NeoLED™ illumination	100 W Halogen illumination
DX.3153-PLi	•	•			
DX.3153-APLi	•		•	•	
DX.3153-PLi/HAL	•	•			•
DX.3153-APLi/HAL			•		

DELPHI-X OBSERVER FOR FLUORESCENCE WITH ERGONOMIC TRINOCULAR TILTING HEAD

MODELS	SWF 10x25 mm eyepieces	Plan 4/10/20/S40/ S100x oil EIS objectives	Plan semi-apo 4/10/20/S40/ S100x oil EIS objectives	3 W NeoLED™ Köhler	100 W 24 V halogen Köhler
DX.3158-PLi	•	•	5 1 0 0 N 0 11 2 15 0 5 Jeeu 1 2 5	•	nomei
DX.3158-APLi					
DX.3158-PLi/HAL					
DX.3158-APLi/HAL					

FOR ORDERING MOTORIZED MODELS

Substitute the third digit "5" of the model reference with the digit "7". Example: DX.1173-PLi = DX.1153-PLi model but with motorized nosepiece, flip-down condenser and automatic light control

FOR ORDERING LIGHT INTENSITY **MEMORY FUNCTION ONLY**

Substitute the third digit "5" of the model reference with the digit "8". Example: DX.1183-PLi = DX.1153-PLi model but with automatic light control

ACCESSORIES AND SPARE PARTS

EYEPIECES

DX.6010	Super wide field SWF 10x/25 mm eyepiece for	DX.6015	Wide field WF 15x/16 mm eyepiece
	Ø 30 mm tube		for Ø 30 mm tube
DX.6010-CN	Super wide field SWF 10x/25 mm eyepiece with	DX.6020	Wide field WF 20x/12 mm eyepiece for
	micrometer and crosshairs for Ø 30 mm tube		Ø 30 mm tube
DX.6210	Super wide field SWF 10x/22 mm eyepiece for	DX.6099-L	Eyecup for eyepieces
	Ø 30 mm tube		
DX.6210-CN	Super wide field SWF 10x/22 mm eyepiece with	OBJECTI	VES INFINITY EIS
	micrometer and crosshairs for Ø 30 mm tube	DX.7201	60 mm plan PLi 1x/0.04 objective. WD 3.2 mm
DX.6210-SG	Super wide field SWF 10x/22 mm eyepiece with	DX.7202	60 mm plan PLi 2x/0.06 objective. WD 7.5 mm
	20 x 20 square grid reticle. For Ø 30 mm tube	DX.7204	60 mm plan PLi 4x/0.10 objective. WD 30 mm
DX.6012	Wide field WF 12.5x/17.5 mm eyepiece	DX.7210	60 mm plan PLi 10x/0.25 objective. WD 10.2 mm
	for Ø 30 mm tube	DX.7220	60 mm plan PILi 20x/0.40 objective. WD 12 mm

DX.7240	60 mm plan PLi S40x/0.65 objective. WD 0.7 mm	DX.9850	C-mount with high resolution relay 0.50x
DX.7250	60 mm plan PLi S50x/0.95 oil objective. WD 0.19 mm		objective for 1/2 inch C-mount camera
DX.7260	60 mm plan PLi S60x/0.80 objectives. WD 0.3 mm	DX.9863	C-mount with high resolution relay 0.63x
DX.7200	60 mm plan PLi S100x/1.25 oil immersion		objective for 2/3 inch C-mount camera
	objective. WD 0.2 mm	AE.5130	Universal SLR adapter with built-in 2x lens for
DX.7200-I	60 mm plan PLi S100x/1.25 oil immersion		standard 23.2 mm tube. Needs T2 adapter
	objective with built-in iris diaphragm. WD 0.2 mm	AE.5025	T2 adapter for Nikon D SLR digital camera
DX.7304	60 mm plan semi-apochromatic	AE.5040	T2 adapter for Canon EOS SLR digital camera
	PLi-apo Fluarex 4x/0.13 objective. WD 16.5 mm		
DX.7310	60 mm plan semi-apochromatic	MISCEL	LANEOUS
	PLi-apo Fluarex 10x/0.30 objective. WD 8.1 mm	DX.9660	Simple polarization kit
DX.7320	60 mm plan semi-apochromatic	DX.9662	Special polarization kit for gout
	PLi-apo Fluarex 20x/0.50 objective. WD 2.1 mm	DX.9704	Yellow filter for lamphouse, diameter 45 mm
DX.7340	60 mm plan semi-apochromatic	DX.9960	100 W 24 V halogen bulb (revision 1 models)
	PLi-apo Fluarex S40x/0.75 objective. WD 0.7 mm	DX.9961	100 W 12 V halogen bulb (revision-2 models)
DX.7300	60 mm plan semi-apochromatic PLi-apo Fluarex	DX.9993	3 Watt LED replacement
	S100x/1.30 oil immersion objective. WD 0.15 mm	AE.5214	500 mA 250 V fuses for LED models, 10pcs
		AE.5216	5 A 250 V fuses for halogen models, 10pcs
MICCELL	ANEQUE		

MISCELLANEOUS

DX.9501-R	Stage with Gorilla glass. Right handed
DX.9501-L	Stage with Gorilla glass. Left handed
DX.9504-R	Stage with Sapphire glass. Right handed
DX.9504-L	Stage with Sapphire glass. Left handed
DX.9501-LG	Option* for left handed stage with Gorilla glass
DX.9504-RS	Option* for right handed stage with Sapphire glass
DX.9504-LS	$Option \hbox{* for left handed stage with Sapphire glass}\\$
SL.1385	$100\mathrm{W}$ HBO mercury vapor lamp for fluorescence

^{*} Option mounted only on new Delphi-X Observer™ microscopes (resp. DX.xx5x-xxx/RS and DX.xx5x-xxx/LS)

CONDENSERS

DX.9105	Abbe condenser with 0.9/1.25 swing-out front lens
DX.9110	Dry darkfield condenser

DX.9112 Oil immersion darkfield condenser

CAMERA ACCESSORIES

DX.9810	C-mount with 1 magnification for C-mount camera
DX.9835	C-mount with high resolution relay 0.35x
	objective for 1/3 inch C-mount camera

DISPOSABLES

PB.5155	Microscope slides 76 x 26 mm, ground edges,
	50 pieces per pack
PB.5165	Cover glasses 18 x 18 mm, 0.13-0.17 mm,
	100 pieces
PB.5168	Cover glasses 22 x 22 mm, 0.13-0.17 mm,
	100 pieces
PB.5245	Lens cleaning paper, 100 sheets per pack
PB.5255	Immersion oil, 25 ml. Refraction index n = 1.482
PB.5274	Isopropyl alcohol 99%, 200 ml
PB.5275	Cleaning kit: lens fluid, lint free lens tissue/pape
	brush, air blower, cotton swabs

WD = working distance

OX.3230





- Binocular and trinocular models
- HWF 10x/22 mm eyepieces
- Reversed nosepiece for a maximum of five objectives
- Plan, plan Fluarex and plan semi apochromatic Fluarex IOS objectives
- Integrated mechanical stage
- Coaxial coarse and fine adjustments
- Height adjustable Abbe N.A. 1.25 condenser with iris diaphragm and filter holder
- 3 W LED transmitted illumination
- Fluorescence attachment for a maximum of four filter blocks and with 100 W mercury vapor incident illumination
- Fluorescence attachment with single filter block and 455 nm (blue), 560 nm (green) or 365 nm (UV) incident illumination
- Ergonomic stand and head
- 10 Years warranty

SPECIFICATIONS

EYEPIECES

HWF 10x/22 mm eyepieces. All eyepieces can be secured by an Allen screw

HEAD

Binocular and trinocular Siedentopf type heads are supplied with 30° inclined tubes, interpupillary distance from 50 to 75 mm and two \pm 5 diopter adjustments. A unique rotating system allows the ergonomic positioning of both tubes in a high (431 mm) and in a low position (397 mm)

NOSEPIECE

Revolving and reversed nosepiece for a maximum of five objectives. The fluorescence models with mercury vapor lamp are equipped with an orange UV protection shield

OBJECTIVES

- Plan 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
- Plan Fluarex 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives

• Plan semi apochromatic Fluarex 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives

All S40x, S60x and S100x oil immersion objectives are spring loaded. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

FOCUSING

Coaxial coarse and fine adjustments, 200 graduations, 1 µm per graduation, 200 µm per rotation, total travel range is approximately 28 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control

STAGE

150 x 140 mm stage with integrated 76 x 50 mm X-Y mechanical stage

A ceramic stage is also available on request

HIGHLIGHTS



Oxion



LIFE SCIENCE MICROSCOPES

Oxion

fluorescence

The Oxion microscopes for fluorescence are equipped with an epi-illumination with a 100 W mercury vapor lamp.

The fluorescence attachment has a rail for a maximum of four filter cubes. The FluoLed model is equipped with a 455 nm LED and one filter cube, especially developed for efficient and fast detection of tuberculosis by the Auramine-O fluorochrome. Other FluoLED wavelengths are also available. The Oxion fluorescence microscopes are dedicated to professionals in life science applications, laboratories of universities and research centers























454 (h) x 276 (w) x 578 mm (d) | 12.2 kg 454 (h) x 185 (w) x 294 mm (d) | 8.7 kg

OX.3085

OX.3085

CONDENSER FOR BRIGHTFIELD

Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm. Supplied with a white diffusion filter. Phase contrast rings mounted in slider can be inserted in the condenser for 10x and S40x or 20x and S100x phase contrast objectives. A darkfield stop in slider for the 10x, 20x and S40x objectives can also be inserted with magnification indication

CONDENSER FOR FLUORESCENCE

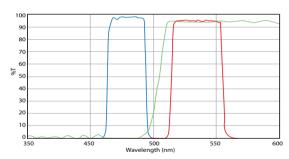
The fluorescence attachment is equipped with an integrated condenser with iris diaphragm and a field diaphragm

ILLUMINATION FOR BRIGHTFIELD AND PHASE CONTRAST

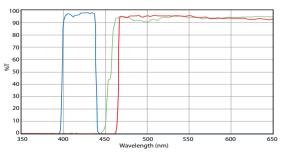
All models are supplied with a 3 W adjustable NeoLED™ illumination with built-in 100-240 V power supply. Köhler illumination with field diaphragm

ILLUMINATION FOR FLUORESCENCE (HBO)

Fluorescence attachment with 100 W (HBO) mercury vapor incident epi-illumination and rail for a maximum of four filter



AE.3245 (Blue EX 465-495 nm DM 505 nm EM 515-558 nm)



AE.3247 (Violet EX 410-440 nm DM 455 nm EM 465 nm LP)

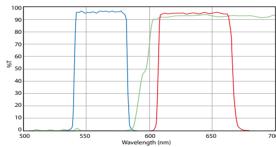
blocks. Two general purpose filter sets are supplied with the attachment: AE.3245 (blue excitation) and AE.3246 (green excitation). Two other general purpose filter sets AE.3248 (UV excitation) and AE.3247 (violet excitation) are also available More specific filter sets are available on request

ILLUMINATION FOR FLUORESCENCE (LED)

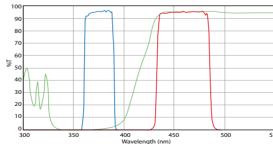
The FluoLED attachment is standard delivered with a 455 nm LED (EX 425-475, DM 480, EM 485 LP filter set) for detection of tuberculosis with Auramine-O fluorochrome. FluoLED attachments with 365 nm LED (EX 340-390, DM 400, EM 420 LP filter set, DAPI), 470 nm LED (EX 450-490, DM 495, EM 500-525 filter set, FITC/GFP/eGFP) and 560 nm LED (EX 540-580, DM 585, EM 608-690 filter set, TexasRed) are also available

PACKAGE CONTENT

Supplied with power cord, dust cover, white filter, user manual and 5 ml immersion oil for models with S100x objective. All packed in a polystyrene box



• AE.3246 (Green EX 540-580 nm DM 600 nm EM 605-665 nm)



• AE.3248 (UV EX 361-389 nm DM 415 nm EM 435-485 nm)

MODELS	Binocular	Trinocular	Plan 4x/10x/ S40x/S100x objectives	Plan Fluarex 4x/10x/ S40x/S100x objectives	Plan semi apo Fluarex 4x/10x/S40x/ objectives	Plan semi apo Fluarex S100x objectives	100 W mercury vapor illumination	455 nm FluoLED illumination
OX.3067		•		•			•	
OX.3070	•				•		•	
OX.3075		•			•		•	
OX.3080	•				•	•	•	
OX.3085		•			•	•	•	
OX.3230	•		•					•
OX.3235		•	•					•
OX.3232	•				•	•		•
OX.3237		•			•	•		•

ACCESSORIES AND SPARE PARTS

EYEPIECES

AE.3210	HWF 10x/22 mm eyepiece	AE.3152	Plan semi apochromatic Fluarex S40x/0.75
AE.3215	HWF 15x/13 mm eyepiece		IOS objective. WD 0.6 mm
AE.3223	HWF 10x/22 mm eyepiece with	AE.3156	Plan semi apochromatic Fluarex S100x/1.28 oil
	10 mm/100 micrometer		immersion IOS objective. WD 0.21 mm
AE.3225	Pair of eyecups		

FLUORESCENCE FILTER SETS

OBJECT	IVES	AE.3245	Fluorescence block with general purpose filter
AE.3102	Plan 2x/0.06 IOS objective. WD 5 mm		set for blue excitation (EX 465-495 nm DM 505 nm
AE.3104	Plan 4x/0.10 IOS objective. WD 11.9 mm		EM 515-558 nm). Excellent for FITC, eGFP.
AE.3106	Plan 10x/0.25 IOS objective. WD 12.1 mm		Compatible for 5-carboxyfluorescein (5-FAM),
AE.3108	Plan 20x/0.40 IOS objective. WD 1.5 mm		Alexa fluor 488, BODIP-FL, Calcein, Cy2, eGFP,
AE.3110	Plan S40x/0.65 IOS objective. WD 0.36 mm		FITC, Fluo-4, Fluor-Jade, FluorX, Mito tracker
AE.3112	Plan S60x/0.85 IOS objective. WD 0.30 mm		Green, Rhodamine 110, Spectrumgreen 110
AE.3114	Plan S100x/1.25 oil IOS objective. WD 0.18 mm	AE.3246	Fluorescence block with general purpose filter set
86.550	Plan Fluarex 4x /0.15 IOS objective. WD 21.6 mm		for green excitation (EX 540-580 nm DM 600 nm
86.552	Plan Fluarex 10x/0.35 IOS objective. WD 2.9 mm		EM 605-665 nm). Excellent for Texas Red, Alexa
86.554	Plan Fluarex 20x/0.60 IOS objective. WD 1.5 mm		594, 5-Carboxynaphthofluorescein. Other
86.556	Plan Fluarex S40x/0.75 infinity corrected IOS		compatible fluorophores: 5-CNF, 5-ROX (carboxy-
	objective. WD 0.6 mm		X-rhodamine), Alexa Fluor 568, Alexa Fluor 594,
IS.7400	Plan Fluarex PLFi S100x/1,30 IOS infinity corrected		Cy3.5, Lissamine rhodamine B, Mito Tracker
	objective. 0.17 mm cover glass correction. WD 0.13 mm		Red, mPlum mRaspberry, Rhodamine Red,
AE.3144	Plan semi apochromatic Fluarex 4x/0.13		SpectrumRed, Texas Red, X-Rhodaline (XRITC)
	IOS objective. WD 18.5 mm	AE.3247	Fluorescence block with general purpose filter set
AE.3146	Plan semi apochromatic Fluarex 10x/0.30		for violet excitation (EX 410-440 nm DM 455 nm
	IOS objective. WD 10.6 mm		EM 465 nm LP). Compatible fluorophores:
AE.3148	Plan semi apochromatic Fluarex 20x/0.50		Cerulean, CFP, Spectrum Aqua
	IOS objective. WD 2.33 mm	WD = work	ing distance

AE.3248 Fluorescence block with general purpose filter

set for UV excitation (UV EX 361-389 nm DM 415 nm EM 435-485 nm), Compatible

fluorophores: 7-amino-4methylcoumarin,

7-Hydrixy-4-methylcoumarin (pH9), Alexa Fluor 350, AMCA, AMCA-X, Calcein Blue, Calcein White,

Cascade Blue, DAPI, Hoechst 33342 & 33258, LysoSensor Blue (pH5), Lyso Tracker Red, marina

Blue, Spectrum Blue

AE.3249 Empty filter cube for models

OX.3066/OX.3067/OX.3070/3075/3080/3085

POLARIZATION ATTACHMENTS

AE.3190 Polarizer/analyzer set

AE.3192 Polarizer slider for nosepiece

AE.3194 Polarizer for lamphouse

FILTERS

AE.3196 Frosted white filter 45 mm, to be mounted

on lamphouse

AE.3198 Blue filter 45 mm, to be mounted on lamphouse

AE.3200 Yellow filter 45 mm, to be mounted on lamphouse

AE.3202 Green filter 45 mm, to be mounted on lamphouse

CAMERA ACCESSORIES

AE.5120-2 Standard 23.2 mm diameter tube for Oxion

photo port revision-2

AE.5130 Universal SLR camera adapter with 2x projection lens

for 23.2 mm tubes. Needs T2 adapter and AE.5120

AE.5025 T2 adapter for Nikon D digital SLR cameras

AE.5040 T2 adapter for Canon EOS digital SLR cameras

OX.9850 CS/C mount with 0.5x objective for 1/2"

sensor cameras

OX.9833 CS/C mount with 0.33x objective for 1/3"

sensor cameras

MISCELLANEOUS

Heating stage and temperature controller up AE.5168-0

to 50°C. Only with new microscopes

SL.1385 100 W HBO mercury vapor lamp for fluorescence

SL.5510 NeoLED™ replacement unit for Oxion AE.3199 Glass fuses 3.15 A 250 V. 10 pieces

DISPOSABLES

PB.5155 Microscope slides 76 x 26 mm, ground edges, 50 pcs

PB.5165 Cover glasses 18 x 18 mm, thickness

0.13-0.17 mm, 100 pieces

PB.5168 Cover glasses 22 x 22 mm, thickness

0.13-0.17 mm, 100 pcs

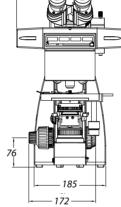
PB.5245 Lens cleaning paper, 100 sheets per pack

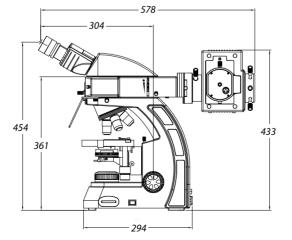
PB.5255 Immersion oil, n = 1.482 (25 ml)

PB.5274 Isopropyl alcohol 99% (200 ml)

PB.5275 Cleaning kit: lens

> cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs





about

fluorescence

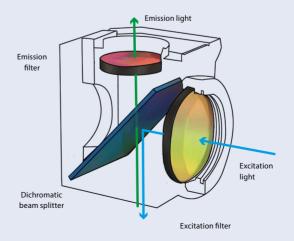
It took many years - since the discovery by Osamu Shimomura of the first proteins aequorin and green fluorescent protein (GFP) in the bioluminescent jellyfish Aeguorea Victoria around the sixties - to develop a specific fluorescence microscope for live-cell imaging which permits essential progress in medical and biological sciences. Today it has become an important tool in Life and Materials Sciences

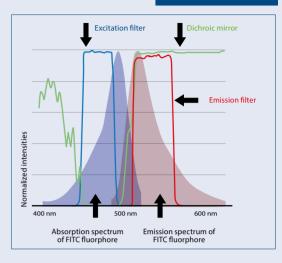
INTRODUCTION TO FLUORESCENCE MICROSCOPY

Fluorescence is the phenomenon of subsequent specific emission of photons by a fluorophore (chemical compound) after the absorption of specific excitation photons. Fluorophores are used as a dye for staining cells, tissues or materials that can be observed as markers under a fluorescence microscope

DESIGN OF A FLUORESCENCE MICROSCOPE

The basic function of a fluorescence microscope is to bring specific "excitation" wavelengths to a stained specimen (with a specific fluorophore) and to catch the subsequent weak emission wavelengths in order to visualize the fluorescent structures on the retina of the eyes or on an imaging camera





TECHNICAL

FACTS

The excitation light of a microscope for fluorescence is provided with either a mercury vapor light source or a monochrome LED. The selection of the specific fluorophore excitation light is done by a so-called emission interference filter that is mounted in a cube together with a dichroic mirror (beam splitter) and the emission filter. The filtered excitation light is further reflected by the dichroic mirror through the objectives towards the sample

The fluorophore(s) inside the specimen will absorb this excitation energy with some efficiency (quantum yield) and will start re-emitting the so-called emission energy, visible light with longer wavelengths than the absorbed light. The emission light from the specimen that fluoresces will be collected by the objective, pass the dichroic mirror and is separated from excitation and other unwanted light wavelengths by the emission filter. The filtered emission light is further projected to the eyepieces or/and camera imaging sensor

UV	Violet	Blue	Cyaan	Green	Yellow	Orange	Red
315-380	380-450	450-490	590-515	515-570	570-590	590-620	620-750







HIGHLIGHTS

- Life science applications
- Observation of tissue cultures, living cells
- Brightfield and phase contrast fluorescence
- Long working distance IOS plan achromatic objectives
- Revolving quintuple nosepiece
- 5 W LED transmitted illumination
- 100 W mercury vapor lamp for fluorescence
- 10 Years warranty

OX.2253-PLPHF

microscopes for fluorescence are useful for observation of living organisms and tissue cultures in cell culture dishes and flasks

The Oxion Inverso models for fluorescence are available with brightfield and phase contrast. Dedicated objectives are suitable for 1.2 mm thick glass bottoms of cell culture dishes and flasks



EYEPIECES

Pair of DIN HWF plan 10x/22 mm eyepieces

HEAD

Trinocular 45° inclined tubes with extended low and high positions for eyepieces. One diopter adjustment on left eyepiece. Interpupillary distance of 54 to 75 mm. Trinocular head with 100-0 % and 0-100 % positions

NOSEPIECE

Revolving quintuple nosepiece on ball-bearings

OBJECTIVES FOR BRIGHTFIELD AND FLUORESCENCE MICROSCOPY

(models OX.2253-PLF and OX.2453-PLF)

Infinity color corrected long working distance plan Fluarex 10x/0.30, 20x/0.45, 40x/0.65 IOS objectives. An optional plan Fluarex 60x/0.75 IOS objective is also available

OBJECTIVES FOR PHASE CONTRAST AND FLUORESCENCE MICROSCOPY

(models OX.2253-PLPHF and OX.2453-PLPHF) Infinity color corrected long working distance plan Fluarex 10x/0.30 and plan phase Fluarex 20x/0.45 and S40x/0.65 IOS objectives

All objectives corrected for 1.2 mm thickness. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

ICSI SET

Micromanipulator with two 3D hydraulic joysticks for Intracytoplasmic sperm injection is available for the Oxion Inverso fluorescence. See chapter 4





OX.2453-PLPHF











UT

STAGE

Stage 250 x 230 mm equipped with a coaxial mechanical 120 x 78 mm X-Y stage, supplied with:

- Stage extension plate
- Metal insert for Ø 65 mm cell culture dish or Multiwell
- Metal insert for 76 x 26 mm slides and 54 mm cell dish (only for models with X-Y stage)
- Glass insert with Ø 30 mm hole
- Optional universal cell culture holder



Accessories supplied with models with mechanical stage

CONDENSER

N.A. 0.30 condenser with iris diaphragm. Working distance 72 mm

The models for the phase contrast OX.2253-PLPHF and OX.2453-PLPHF are supplied with a slider with 4x/10x and 20x/40x pre-centered phase rings

FOCUSING ADJUSTMENT

Coaxial 25 mm coarse and fine adjustments, 2 µm precision and with friction adjustment

ILLUMINATION

Transmitted 5 W LED Intensity adjustable with internal 100-240 V power supply. Fuse holder 3.15 A / 250 V

The fluorescence models are equipped with a reflected 100 W HBO mercury vapor light source with external 100-240 V power supply, fuse holder 3.15 A / 250 V, UV protection shield

FILTERS FOR PHASE CONTRAST MODELS

Interference filter 550 nm green and blue filter, Ø 45 mm

STANDARD FLUORESCENCE FILTERS

(for fluorescence models)

The fluorescence models OX.2253-PLF and OX.2253-PLPHF are come with two filter sets for excitation:

- · In the blue spectrum, OX.9745, EX465-495 (BP) DM505 (LP) EM515-555 (BP)
- · In the green spectrum, OX.9746, EX540-580 (BP) DM600 (LP) EM605-665 (BP)

The fluorescence models OX.2453-PLF and OX.2453-PLPHF equipped with a 4-positions filter rail are supplied with three standard filter sets for excitation:

- · In the blue spectrum, OX.9745, EX465-495 (BP) DM505 (LP) EM515-555 (BP)
- · In the green spectrum, OX.9746, EX540-580 (BP) DM600(LP) EM605-665 (BP)
- · In the UV spectrum, OX.9747, EX361-389 (BP) DM415 (LP) EM435-485 (BP)

PACKAGE CONTENT

Supplied with metal insert with Ø 25 mm hole, metal insert for Ø 35 mm cell culture dish, blue LBD and green 550 nm interference Ø 45 mm filter, power cord, dust cover and user manual. Phase contrast models are supplied with 4x/10x and 20x/40x phase contrast annuli in slider, green filter and alignment telescope



Standard accessory

MODELS	LWD Plan Fluarex 10x/ 20x/40x objectives	LWD Plan Fluarex 10x and plan phase Fluarex 20x/40x objectives	2-position filter block	4-position filter block	Mechanical stage
OX.2253-PLF	•		•		•
OX.2453-PLF	•			•	•
OX.2253-PLPHF		•	•		•
OX.2453-PLPHF		•		•	•

Fluarex[™] objectives are made of low-absorption glass for fluorescence applications Fluarex[™] is a trademark of Euromex microscopen by LWD = long working distance

ACCESSORIES AND SPARE PARTS

EYEPIECES

OX.6010	HWF 10x/22 mm eyepiece
OX.6015	HWF 15x/16 mm eyepiece
OX.6110	HWF 10x/22 mm eyepiece with
	micrometer reticule

OX.6099 Pair of eyecups

PLAN FLUAREX OBJECTIVES FOR BRIGHTFIELD AND FLUORESCENCE(1)

OX.860)4	PL FL LWD 4x/0.13 IOS objective, WD 18.5 mm
OX.861	0	PL FL LWD 10x/0.30 IOS objective, WD 7.1 mm
OX.862	20	PL FL LWD 20x/0.45 IOS objective, WD 5.91 mm
OX.864	10	PL FL LWD 40x/0.65 IOS objective, WD 1.61 mm
OX.866	50	PL FL LWD 60x/0.75 IOS objective, WD 1.04 mm

OBJECTIVES FOR FLUORESCENCE AND

OX.8720	Plan phase Fluarex LWD 20x/0.45 infinity		
	corrected IOS objective. WD 5.91 mm $^{\scriptscriptstyle{(1)}}$		
OX.8740	Plan phase Fluarex LWD 40x/0.65 infinity		
	corrected IOS objective. WD 1.1 mm ⁽¹⁾		

- (1) All objectives corrected for 1.2 mm cover glass thickness except OX.8304
- (2) Phase contrast objectives require slider with phase contrast annuli OX.9163
- (3) Phase contrast objectives require slider with phase contrast annuli OX.9163

All optical parts are anti-fungus treated

STANDARD GENERAL PURPOSE **FLUORESCENCE FILTER SETS:**

OX.9745	Fluorescence filter block	
	for blue excitation 465-495 nm	
OX.9746	Fluorescence filter block	
	for green excitation 540-580 nm	
OX.9747	Fluorescence filter block	
	for ultra violet excitation 361-389 nm	

OX.9748 Fluorescence filter block

for violet excitation 415-445 nm

PHASE CONTRAST ATTACHMENTS

OX.9148	Telescope for phase contrast fluorescence
	alignment
OX.9149	Telescope for phase contrast alignment
OX.9190	Slider with 4x/10x and 20x/40x phase
	contrast annuli

CAMERA ACCESSORIES			
	OX.9810 C mount with 1.0x objective		
	OX.9833	C-mount adapter with 0.33x objective for Oxion	
microscopes and 1/3" cameras			
OX.9850 C-mount adapter v		C-mount adapter with 0.5x objective for Oxion	
		and Oxion Inverso microscopes and 1/2"	
		cameras	
	AE.5120-2	Trinocular 23.2 mm tube for Oxion photo port	
revision-2		revision-2	
	WD = working distance		



OX.9599

AE.5130 Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Needs T2 adapter and AE.5120 or AE.5120-2

T2 adapter for Nikon D digital SLR cameras AE.5025 AE.5040 T2 adapter for Canon EOS digital SLR cameras

STAGES AND HOLDERS

OX.9500	Mechanical coaxial X-Y 120 x 78 mm stage	
OX.9506	Transparent glass insert with Ø 30 mm hole	
OX.9508	Metal insert with Ø 25 mm hole	
OX.9510	Metallic insert for Ø 65 mm cell culture dish and	
	Multiwell	
OX.9512	Metal insert with 76 x 26 mm slide holder	
	and Ø 55 mm cell culture dish holder	
OX.9535	Metal insert for Ø 35 mm cell culture dish holder	
OX.9550	Stage extension plate	

Universal cell culture dish holder



AE.8010 Heating stage with transparent glass plate for AE.8000 Micromanipulator, including digital temperature controller

MICROMANIPULATOR ATTACHMENT

AE.8000 Micromanipulator for intracytoplasmic sperm injection (ICSI) suitable for the Oxion Inverso inverted microscope

MISCELLANEOUS

OX.9700	Blue filter Ø 45 mm

OX.9985 5 W NeoLED™ replacement unit

AE.3199 Glass fuses 3.15 A 250 V packed, per 10 pieces SL.1385 100 W HBO mercury vapor lamp for fluorescence 230.5

OX.9703 IR cut-off filter **Empty filter block** OX.9749



 Accessories supplied with phase contrast models

DISPOSABLES

PB.5155 Microscope slides 76 x 26 mm, ground edges, 50 pieces PB.5165 Cover glasses 18 x 18 mm,

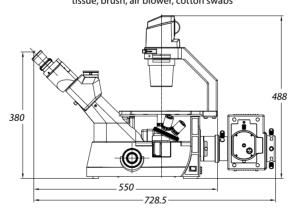
thickness 0.13 - 0.17 mm, 100 pieces

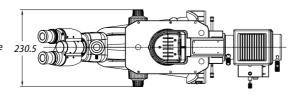
PB.5168 Cover glasses 22 x 22 mm, thickness 0.13 - 0.17 mm, 100 pieces

PB.5245 Lens cleaning paper, 100 sheets per pack

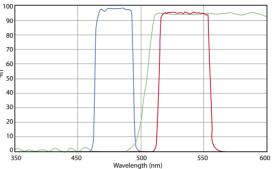
PB.5255 Immersion oil, n = 1.482 (25 ml) PB.5274 Isopropyl alcohol 99% (200 ml)

PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs





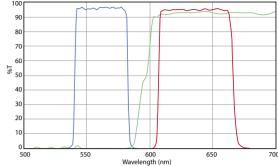
STANDARD GENERAL PURPOSE FLUORESCENCE FILTER SETS





FITC EX465-495 (BP) DM505 (LP) EM515-555 (BP)

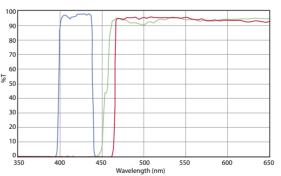
Also suitable for: Acridine Orange + DNA, Alexa Fluor 488™, Atto 488, Azami Green, BODIPY FL/pH7.2, Calcein, Calcium Green™-1, Cy2™, DiO, DyLight 488, EGFP, Emerald GFP, FAM, FITC, Fluo-4, GFP LysoTracker Green/pH 5.2, MitoTracker Green FM/MeOH, mWasabi, Oregon Green™ 488, SYBR® Green I, SYTO 9/DNA, ZsGreen



OX.9746 Green excitation 540-580 nm

Texas Red / mCherry / Alexa Fluor 594 EX540-580 (BP) DM600 (LP) EM605-665 (BP)

Also suitable for: Alexa Fluor 568™, Alexa Fluor 594™, CAL Fluor® Red 610, Cy3.5™, DyLight 594, FusionRed, Killer Red, mCherry, MitoTracker Red/MeOH, mKate2, mRFP1, ReAsH-CCPGCC, Rhodamine Red™-X, ROX, Sulforhodamine 101, Texas Red®, Texas Red®-X, X-rhod-1/Ca2+





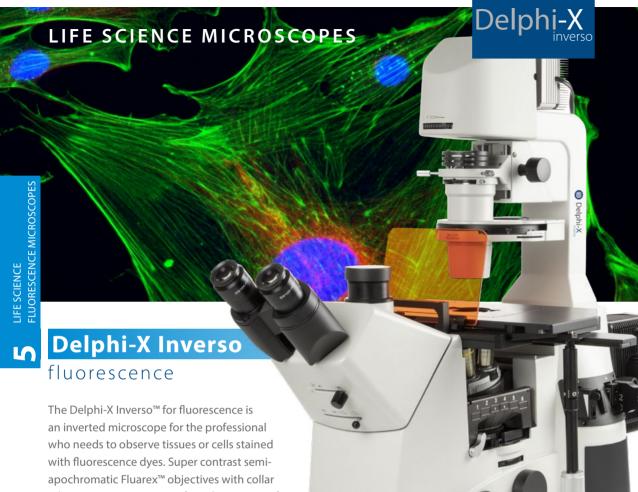
Also suitable for: Alexa Fluor 350™, Biosearch Blue, Coumarin, DAPI, DyLight 350, Hoechst 33258, LysoTracker Blue/MeOH

UV/DAPI/Hoechst/AlexaFluor 350 EX415-445 (BP) DM455 (LP) EM465-495 (BP)

OX.9748 Violet excitation 415-445 nm

The fluorescence microscopes can be equipped with more specific, optimized and application related fluorescence filter sets, see accessories section and/or separate fluorescence filter catalog

UT



adjustment ring assure perfect observation of cells or tissues in 1.2 mm thick Petri dishes or flasks

PHASE CONTRAST FLUORESCENCE DI.1053-PLPHFi

DI.3053-PLPHFi

HIGHLIGHTS

- Life science applications
- Observation of fluorescence in tissues and cells
- Brightfield, phase contrast fluorescence observations
- DIC (differential interference contrast)
- Long working distance IOS plan semi-apochromatic Fluarex achromatic objectives
- Revolving sextuple nosepiece
- 10 W LED or 100 W halogen transmitted illumination
- 100 W HBO mercury vapor fluorescence illumination
- Backwards tilting condenser arm
- Easy placement of large objects
- 10 Years warranty



SPECIFICATIONS

EYEPIECES

Pair of DIN HWF plan 10x/25 mm or 10x/22 mm eyepieces with diopter adjustment

HEAD

Trinocular 45° inclined tubes. Interpupillary distance of 47 to 78 mm. Trinocular head with 100-0, 80/20 and 0/100 positions

NOSEPIECE

Revolving sextuple nosepiece on ball-bearings

OBJECTIVES

High numerical infinity semi-apochromatic long working distance plan phase Fluarex PLPHFi 10x/0.30, 20x/0.45, S40x/0.60 IOS objectives enable the sub-cellular structures. An optional 60x/0.80 IOS objective is also available. The 20x, S40x and optional S60 objectives are equipped with collar adjustment ring for glass thicknesses from 0 to 1.2 mm Fluarex[™] objectives are made of low-absorption glass. Fluarex[™] is a trademark of Euromex microscopen by. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

STAGE

Stage 340 x 230 mm, equipped with a coaxial mechanical

130 x 85 mm X-Y stage. Supplied with:

- · Metal insert for O 38 mm cell culture dish
- Metal insert for O 54 mm cell culture dish or 76 x 26 mm slides
- Metal insert for Multiwell plates (127.76 x 85.48 mm)
- Metal insert for Teraski plates (83.3 x 58.0 mm)
- · Optional universal cell culture holder

CONDENSER

Rotating N.A. 0.55 condenser with iris diaphragm. Working distance 26 mm. Supplied with phase contrast annuli for 10x/20x, 40x and 60x objectives and the DIC prisms for the 10x/20x/40x and 60x objectives. Three filter holders allow the insertion of Ø 38 mm filters in the optical path. The arm with condenser can be tilted backwards for convenient access to the stage. This allows easy placement of large objects like flasks and Petri dishes

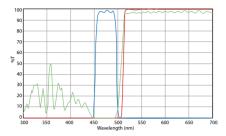
LENS CHANGER

A lens changer with a 1.5x lens allow intermediary magnifications of 1.5 times the standard objective magnifications. Switching from 20x to 30x or 40 to 60 and from 60x to 90x magnification can be done without the need to re-focus on the sample

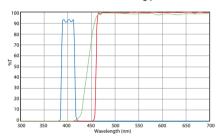
1

FLUORESCENCE ATTACHMENT

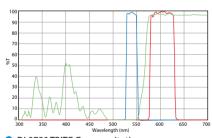
The Delphi-X Inverso for fluorescence microscopy is supplied with a 6-position fluorescence filter set wheel and comes



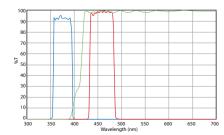
DI.9745 Blue excitation EX 460-495 DM 505 EM 510 long pass



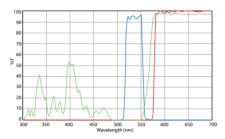
 DI.9747 Violet excitation EX 400-410 DM 455 EM 460 Long pass



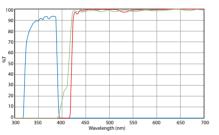
 DI.9750.TRITC Green excitation EX 528-553 DM 565 EM 578-633 band pass



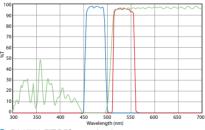
DI.9750.DAPI UV excitation EX 360-390 DM 415 EM 435-485 band pass with two fluorescence filter sets for blue and green excitation (DI.9745 and DI.9746). Other filter sets are optional



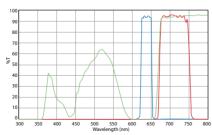
DI.9746 Green excitation EX 510-550 DM 570 EM 575 long pass



 DI.9748 Ultra violet excitation EX 330-385 DM 410 EM 420 Long pass



 DI.9750.FITC Blue excitation EX 460-495 DM 505 EM 510-550 band pass



DI.9750.R Red excitation EX 620-650 DM 660 EM 670-750 band pass

FOCUSING ADJUSTMENT

Coaxial 10 mm coarse and fine adjustments, 1 µm precision and with friction adjustment

ILLUMINATION

Fluorescence illumination with a 100 W mercury vapor lamp with external 100-240 V power supply. Transmitted 10 W LED or 100 W halogen illumination and internal power supply. Fuse holder 3.15 A / 250 V

PACKAGE CONTENT

Supplied with metal insert for Ø 38 mm cell culture dish and a metal insert for Ø 54 mm cell culture dish with 76 x 26 mm slides, metal insert for Multiwell plates, metal insert for Teraski plates, blue and green interference Ø 45 mm filters, power cord, dust cover, green filter and alignment telescope and user manual

MODELS	10x/20x/40x PLPHFi objectives	100 W Halogen illumination	10 W LED illumination	100 W HBO fluorescence illumination
DI.3053-PLPHFi	•		•	•
DI.3053-PLPHFi/HAL		•		





• 6-Position fluorescence filter set wheel and 1.5 lens changer

ACCESSORIES AND SPARE PARTS

EYEPIEC	ES	OBJECTIVES		
DI.6010	Super wide field SWF 10x/25 mm eyepiece	DI.8710	Infinity semi-apochromatic long working	
DI.6010-C	Super wide field SWF 10x/25 mm eyepiece with		distance plan phase Fluarex PLPHFi 10x/0.30,	
	crosshairs		IOS objective PLPHi 10x/0.30 objective.	
DI.6010-M	Super wide field SWF 10x/25 mm eyepiece with		WD 10.2 mm	
	micrometer	DI.8720	Infinity semi-apochromatic long working	
DI.6010-CM	Super wide field SWF 10x/25 mm eyepiece with		distance plan phase Fluarex PLPHFi 20x/0.45	
	micrometer and crosshairs		objective. WD 7.5 to 8.8 mm	
DI.6010-SG	Super wide field SWF 10x/25 mm eyepiece with	DI.8740	Infinity semi-apochromatic long working	
	20 x 20 square grid reticle		distance plan phase Fluarex PLPHFi S40x/0.60	
DI.6012	Wide field WF 12.5x/17.5 mm eyepiece		IOS objective. WD 3 to 4.4 mm	
DI.6015	Wide field WF 15x/16 mm eyepiece	DI.8760	Infinity semi-apochromatic long working	
DI.6020	Wide field WF 20x/12 mm eyepiece		distance plan phase Fluarex PLPHFi S60X/0.70	
DI.6099-L	Eyecups for eyepiece		IOS objective. WD 1.8-2.6 mm	

UT

DIFFERENTIAL INTERFERENCE CONTRAST

DI.9690 Rotating DIC and BF disc condenser without DIC prisms for life science Delphi-X Inverso models. Needs one or more DIC-prisms (DI.9660-xx),

DI.9690-10 DIC prism for rotating disc condenser (DI.9690) for life science Delphi-X Inverso models.

DI.9690-20 DIC prism for rotating disc condenser (DI.9690) for life science Delphi-X Inverso models.

DI.9690-40 DIC prism for rotating disc condenser (DI.9690) for life science Delphi-X Inverso models.

DI.9690-60 DIC prism for rotating disc condenser (DI.9690) for life science Delphi-X Inverso models.

DI.9693-10 DIC insert with small prism to be used with 10x objective DI.8710

DI.9693-20 DIC insert with small prism to be used with 20x objective DI.8720

DI.9693-40 DIC insert with small prism to be used with 40x objective DI.8740

DI.9693-60 DIC insert with small prism to be used with 60x objective DI.8760

STANDARD GENERAL PURPOSE **FLUORESCENCE FILTER SETS**

Long pass type:

DI.9745 Fluorescence filter block for blue excitation with excitation at 460 to 495 nm, dichroic mirror at 505 nm and emission long pass filter from 510 nm DI.9746 Fluorescence filter block for green excitation with excitation at 510 to 550 nm, dichroic mirror at 570 nm and emission long pass filter from 575 nm DI.9747 Fluorescence filter block for violet excitation with excitation at 400 to 410 nm, dichroic mirror at 455 nm and emission long pass filter from 460 nm DI.9748 Fluorescence filter block for ultra violet excitation with excitation at 330 to 385 nm,

pass filter from 420 nm

dichroic mirror at 410 nm and emission long

Band-pass type

DI.9750.TRITC

Fluorescence filter block for blue excitation with excitation at 528 to 553 nm, dichroic mirror at 565 nm and emission band pass filter at 578 to 633 nm. Suitable for TRTIC

DI.9750.FITC

Fluorescence filter block for green excitation with excitation at 460 to 495 nm, dichroic mirror at 505 nm and emission band pass filter at 510 to 550 nm. Suitable for FITC

DI.9750.DAPI

Fluorescence filter block for ultraviolet excitation with excitation at 360 to 390 nm, dichroic mirror at 415 nm and emission band pass filter at 435 to 485 nm. Suitable for DAPI

DI.9750.RED

Fluorescence filter block for red excitation with excitation at 620 to 650 nm, dichroic mirror at 660 nm and emission band pass filter at 670 to 750 nm.

CAMERA ACCESSORIES

DI.9810 C-mount with 1x magnification for C-mount camera DI.9840 C-mount with high resolution 0.40x objective for 1/3 inch C-mount camera **DI.9850** C-mount with high resolution relay 0.50x objective for 1/2 inch C-mount camera

MISCELLANEOUS

וספפ.וע	100 watt 12 v nalogen bulb
DI.9997	10 Watt LED replacement
DI.9997-R	10 Watt LED replacement for reflected illumination
AE.5214	500 mA 250 V fuses for LED models, 10pcs
AE.5216	5 A 250 V fuses for halogen models, 10pcs
SI .1385	100 W HBO mercury vapor lamp for fluorescence

100 Watt 12 V halagan hulb

DISPOSABLES

PB.5155

50 pieces per pack PB.5157-W Microscope slides 76 x 26 mm, ground edges and frosted side white color, 50 pieces per pack PB.5157-B Microscope slides 76 x 26 mm, ground edges and frosted side blue color, 50 pieces per pack

Microscope slides 76 x 26 mm, ground edges,

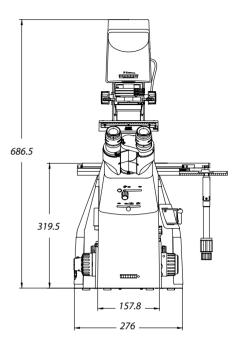
PB.5165 Cover glasses 18 x 18 mm, 0.13-0.17 mm, 100 pieces Cover glasses 22 x 22 mm, 0.13-0.17 mm, 100 pieces PB.5168

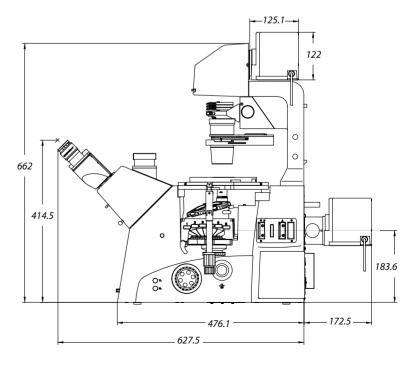
PB.5245 Lens cleaning paper, 100 sheets per pack PB.5255 Immersion oil, 25 ml. Refraction index n = 1.482

PB.5274 Isopropyl alcohol 99%, 200 ml

PB.5275 Cleaning kit: lens fluid, lint free lens tissue/paper,

brush, air blower, cotton swabs







for fluorescence

Euromex offers three high-end and extremely easy-to-use LED light sources for fluorescence applications that can replace mercury vapor HBO light sources of our microscope solutions for fluorescence

The standard - entry-level - LED light source for fluorescence LE.6200, fits the two common Blue (450-490 nm) and Green (505-545 nm) wavelength bands for fluorescence excitation. Other bands are also possible, see model block

The standard LE.6500 LED light source for fluorescence fits five wavelengths bands for fluorescence excitation, one for ultra violet, two for the green and two for the blue light spectrum. Other bands are also possible, see model block







HIGHLIGHTS

- Stand-alone operation
- Easy mounting and operation
- 9 excitation wavelengths-bands are available
- 2 years warranty

The ultimate LED light source for fluorescence LE.6900 fits all nine available wavelength bands for fluorescence, ranging from 330 to 670 nm



LAMPHOUSE CONTROLLER **TOUCH SCREEN**

SPECIFICATIONS

LAMPHOUSE

The lamphouse can be mounted with a specific adapter on a Euromex Delphi-X Observer, iScope and Oxion upright microscopes as well as for our Oxion Inverso and Delphi-X Inverso inverted models. For other brands, contact Euromex The standard LE.6500 system has a 100-240 V power supply/ intensity control unit with touch screen for selection and intensity adjustment of five wavelength bands

The ultimate LE.6900 system has a 100-240 V power supply/ intensity control unit with keyboard pad for selection and intensity adjustment of all nine wavelength bands

CONTROLLERS

The entry-level LE.6200 system has a simple 100-240 V power supply/intensity control unit for both wavelengths which are active at the same time

LE.6200

Band	Wavelength	FWHM (nm)	Range	Color	Power (mW)
5	470	24	450-490	Blue	315
6	525	29	505-545	Green	142

Customized versions with two wavelength bands (LE.6200 + 2 band references) - to choose between wavelength bands 1, 3, 4, 5 or 6 - are available on special request. E.g. LE.6200-15

LE.6500

Band	Wavelength	FWHM (nm)	Range	Color	Power (mW)
1	365	18	330-380	Ultra violet	205
4	450	26	440-470	Royal blue	485
5	470	24	450-490	Blue	315
6	525	29	505-545	Green	142
7	545	116	510-560	Emerald green	172

Customized versions (product nr. LE.6500-ABCDE) with a maximum of five wavelength bands are available on special request. One can choose from wavelength bands 1 to 7 (see table below), e.g. LE.6500-12456

Customized versions (product nr. LE.6500-ABCD) with wavelength band 8 or 9 (not both) plus three other wavelength bands (chosen freely from wavelength bands 1 to 7, see table below) are also available. E.g LE.6500-1458

IF 6900

L.03	,00					
Band	Wavelength	FWHM (nm)	Range	Color	Power (mW)	E.g. compatible fluorochromes
1	365	18	330-380	Ultra violet	205	DAPI (359 nm), Biosearch Blue (352 nm), Calcofluor White (350 nm)
2	385	14	370-395	Royal violet	126	Coumarin (384 nm), FluoroGold (390 nm), wtGFP (395 nm)
3	405	22	380-420	Violet	468	DyLight 405 (399 nm)
4	450	26	440-470	Royal blue	485	Auramine (460 nm)
5	470	24	450-490	Blue	315	Cy2 (489 nm), rsGFP (488 nm), EGFP (488 nm), FITC (494 nm), Acridine Orange (DNA -500 nm)
6	525	29	505-545	Green	142	Citrine (514 nm), Acridine Orange (500 nm)
7	545	16	510-560	Emerald green	172	TRITC (555 nm), Cy3 (552 nm), DsRed (557 nm), Alexa Fluor 546 (556 nm)
8	625	20	605-650	Orange-Red	130	Cy5 (649nm), Alexa Fluor 633 (632 nm)
9	660	21	645-670	Red	221	Cy5 (649nm), Alexa Fluor 647 (649 nm)

FLUORESCENCE FILTER SETS

For ordering a specific fluorescence filter set find the fluorochrome you need and add the filter set reference 'xxxx' as follows:

FOR ISCOPE:

IS.9750.xxxx/6, iScope® with 6-position fluorescence attachment, needs also empty block IS.9749/6 IS.9750.xxxx/3 iScope® with 3-position fluorescence attachment, needs also empty block IS.9749/3

FOR BSCOPE:

BS.9750.xxxx, bScope® with 4-positions fluorescence attachment, needs also empty block BS.9749

Acridine Orange DNA - EX: 500 nm EM: 526 nm

Alexa Fluor 514™ - EX: 517 nm EM: 539 nm

EXAMPLE:

EX: 465-495 nm DM 505 nm EM: 590-650 nm • 39009

EX: 485-505 nm DM 515 nm EM: 525-555 nm • 39003

EX: 528-553 nm DM 565 nm EM: 578-633 nm • 39004

EX: 540-580 nm DM 600 nm EM: 615-665 nm • 39010

the reference for the bScope® with a 39001 filter set is BS.9750.39001

FOR DELPHI-X OBSERVER/INVERSO:

DX.9750.xxxx, Delphi-X Observer™ with 6-position fluorescence attachment, needs also empty block DX.9749/6 DI.9750.xxxx, Delphi-X Inverso[™] with 6-position fluorescence attachment, needs also empty block DI.9749/6

FOR OXION SERIES:

OX.9750.xxxx Oxion inverso with 3-position fluorescence attachment, needs also empty block OX.9749/3 OX.9750.xxxx Oxion inverso with 4-positions fluorescence attachment, needs also empty block OX.9749/4 AE.3250.xxxx, Oxion upright with 4-positions fluorescence attachment, needs also empty block AE.3249



Alexa Fluor 647™ - EX: 649 nm EM: 666 nm

EX: 595-645 nm DM 655 nm EM: 665-715 nm • 39007

AmCvan - EX: - 458 nm EM: 489 nm

EX: 425-445 nm DM 455 nm EM: 465-495 nm • 39001

Alexa Fluor 546™ - EX: 556 nm EM: 573 nm Auramine longpass - EX: 460 nm EM: 550 nm

EX: 425-475 nm DM 485 nm EM: 495 nm (LP) • 19008

Alexa Fluor 555™ - EX: 553 nm EM: 568 nm Azami Green - EX: 492 nm EM: 505 nm

EX: 528-553 nm DM 565 nm EM: 578-633 nm • 39004 EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002

Alexa Fluor 568™ - EX: 578 nm EM: 603 nm Biosearch Blue - EX: 352 nm EM: 447 nm

EX: 540-580 nm DM 600 nm EM: 615-665 nm • 39010 EX: 361-389 nm DM 415 nm EM: 435-485 nm • 39000

Alexa Fluor 594™ - EX: 590 nm EM: 617 nm **BODIPY FL/pH7.2** - EX: 505 nm EM: 512 nm

EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002

CAL Fluor® Red 590 - EX: 569 nm EM: 591 nm

EX: 528-553 nm DM 565 nm EM: 578-633 nm • 39004

CAL Fluor® Red 610 - EX: 590 nm EM: 610 nm

EX: 540-580 nm DM 600 nm EM: 615-665 nm • 39010

Calcein - EX: 494 nm EM: 517 nm

EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002

Calcium Green™-1 - EX: 506 nm EM: 531 nm

EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002

Calcofluor White - EX: 350 nm EM: 475 nm

EX: 361-389 nm DM: 415 nm EM: 435 nm (LP) • 19000

Cerulean - EX: 433 nm EM: 475 nm

EX: 425-445 nm DM 455 nm EM: 465-495 nm • 39001

CFP - EX: 433 nm EM: 475 nm

EX: 425-445 nm DM 455 nm EM: 465-495 nm • 39001

Citrine - EX: 514 nm EM: 529 nm

EX: 485-505 nm DM 515 nm EM: 525-555 nm • 39003

Coumarin - EX: 384 nm EM: 470 nm

EX: 390-420 nm DM: 440 nm EM: 450 nm (LP) • 19011

Cy2™ - EX: 489 nm EM: 506 nm

EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002

Cy3.5™ - EX: 581 nm EM: 598 nm

EX: 540-580 nm DM 600 nm EM: 615-665 nm • 39010

Cy3™ - EX: 552 nm EM: 570 nm

EX: 528-553 nm DM 565 nm EM: 578-633 nm • 39004

Cy5™ - EX: 649 nm EM: 670 nm

EX: 595-645 nm DM 655 nm EM: 665-715 nm • 39007

DAPI - EX: 359 nm EM: 461 nm

EX: 361-389 nm DM 415 nm EM: 435-485 nm • 39000

Drag5 - EX: 647 nm EM: 683 nm

EX: 595-645 nm DM 655 nm EM: 665-715 nm • 39007

DsRed - EX: 557 nm EM: 584 nm

EX: 528-553 nm DM 565 nm EM: 578-633 nm • 39004

DyLight 350 - EX: 352 nm EM: 435 nm

EX: 361-389 nm DM 415 nm EM: 435-485 nm • 39000

DvLight 405 - EX: 399 nm EM: 433 nm

EX: 390-420 nm DM: 440 nm EM: 450 nm (LP) • 19011

DyLight 488 - EX: 492 nm EM: 517 nm

EX: 450-495 nm DM 505 nm EM: 515-555 nm • 39002

DyLight 549 - EX: 554 nm EM: 569 nm

EX: 528-553 nm DM 565 nm EM: 578-633 nm • 39004

DyLight 594 - EX: 592 nm EM: 616 nm

EX: 540-580 nm DM 600 nm EM: 615-665 nm • 39010

DyLight 649 - EX: 652 nm EM: 667 nm

EX: 595-645 nm DM 655 nm EM: 665-715 nm • 39007

ECFP - EX: 434 nm EM: 477 nm

EX: 425-445 nm DM 455 nm EM: 465-495 nm • 39001

EGFP - EX: 488 nm EM: 507 nm

EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002

Emerald GFP - EX: 489 nm EM: 510 nm

EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002

EYFP/pH 7 - EX: 514 nm EM: 527 nm

EX: 485-505 nm DM 515 nm EM: 525-555 nm • 39003

UI

FLUORESCENCE FILTER SETS (continued)

	FITC - EX: 490 nm EM: 525 nm EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002	mCherry - EX: 587 nm EM: 610 nm EX: 540-580 nm DM 600 nm EM: 615-665 nm • 39010	Rhod-2 - EX: 552 nm EM: 581 nm EX: 528-553 nm DM 565 nm EM: 578-633 nm • 39004	TRITC - EX: 555 nm EM: 580 nm EX: 528-553 nm DM 565 nm EM: 578-633 nm • 39004
	Fluo-4 - EX: 494 nm EM: 516 nm	mCitrine - EX: 514 nm EM: 529 nm	Rhodamine 123 - EX: 507 nm EM: 529 nm	TurboFP650 - EX: 592 nm EM: 650 nm
	EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002	EX: 485-505 nm DM 515 nm EM: 525-555 nm • 39003	EX: 485-505 nm DM 515 nm EM: 525-555 nm • 39003	EX: 540-580 nm DM: 600 nm EM: 610 nm (LP) • 19006
	FluoroGold - EX: 390 nm EM: 600 nm	MitoTracker Green FM/MeOH - EX: 490 nm EM: 516 nm	Rhodamine Red™-X - EX: 570 nm EM: 590 nm	wtGFP - EX: 475 nm EM: 509 nm
OPES	EX: 361-389 nm DM: 415 nm EM: 515 nm (LP) • 19012	EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002	EX: 540-580 nm DM 600 nm EM: 615-665 nm • 39010	EX: 425-475 nm DM: 485 nm EM: 495 nm (LP) • 19008
MICROSCOP	FM™ 1-43 - EX: 479 nm EM: 598 nm	MitoTracker Orange/MeOH - EX: 551 nm EM: 576 nm	Sulforhodamine 101 - EX: 586 nm EM: 605 nm	X-rhod-1/Ca2+ - EX: 580 nm EM: 601 nm
CE MICF	EX: 465-495 nm DM: 505 nm EM: 600 nm (LP) • 19010	EX: 528-553 nm DM 565 nm EM: 578-633 nm • 39004	EX: 540-580 nm DM 600 nm EM: 615-665 nm • 39010	EX: 540-580 nm DM 600 nm EM: 615-665 nm • 39010
VCE CEN	FM™ 4-64 - EX: 515 nm EM: 740 nm	MitoTracker Red/MeOH - EX: 578 nm EM: 599 nm	SYBR® Green I - EX: 498 nm EM: 522 nm	ZsGreen1 - EX: 493 nm EM: 505 nm
E SCIEI JORES	EX: 540-580 nm DM: 600 nm EM: 610 nm (LP) • 19006	EX: 540-580 nm DM 600 nm EM: 615-665 nm • 39010	EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002	EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002
造 근	FM™ 4-64 - EX: 515 nm EM: 740 nm	mRFP1 - EX: 584 nm EM: 607 nm	SYTO 9/DNA - EX: 483 nm EM: 500 nm	NEUTRAL DENSITY FILTERS:
	EX: 465-495 nm DM: 505 nm EM: 600 nm (LP) • 19010	EX: 540-580 nm DM 600 nm EM: 615-665 nm • 39010	EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002	25 mm diameter, 1 mm thick and unmounted
N				AE.3250.ND01 Neutral density filter, ND 0.10 (T 80 %)
	FusionRed - EX: 576 nm EM: 603 nm	mWasabi - EX: 493 nm EM: 509 nm	SYTO® 60 - EX: 652 nm EM: 678 nm	AE.3250.ND02 Neutral density filter, ND 0.20 (T 65 %)
	EX: 540-580 nm DM 600 nm EM: 615-665 nm • 39010	EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002	EX: 595-645 nm DM 655 nm EM: 665-715 nm • 39007	AE.3250.ND03 Neutral density filter, ND 0.30 (T 50 %)
				AE.3250.ND04 Neutral density filter, ND 0.40 (T 40 %)
	GFP - EX: 488 nm EM: 507 nm	Oregon Green™ 488 - EX: 490 nm EM: 514 nm	TagRFP - EX: 556 nm EM: 584 nm	AE.3250.ND05 Neutral density filter, ND 0.50 (T 32 %)
	EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002	EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002	EX: 528-553 nm DM 565 nm EM: 578-633 nm • 39004	AE.3250.ND06 Neutral density filter, ND 0.60 (T 25 %)
				AE.3250.ND10 Neutral density filter, ND 1.0 (T 10 %)
	Hoechst 33258 - EX: 352 nm EM: 461 nm	Oregon Green™ 514 - EX: 506 nm EM: 526 nm	TAMRA - EX: 555 nm EM: 580 nm	AE.3250.ND13 Neutral density filter, ND 1.3 (T 5 %)
	EX: 361-389 nm DM 415 nm EM: 435-485 nm • 39000	EX: 485-505 nm DM 515 nm EM: 525-555 nm • 39003	EX: 528-553 nm DM 565 nm EM: 578-633 nm • 39004	
				32 mm diameter, 1 mm thick and unmounted
	Lucifer Yellow - EX: 428 nm EM: 540 nm	Pacific Blue - EX: 405 nm EM: 455 nm	Texas Red® - EX: 595 nm EM: 620 nm	AE.3252.ND01 Neutral density filter,ND 0.10 (T80 %)
	EX: 400-440 nm DM 455 nm EM: 515-555 nm • 39008	EX: 390-420 nm DM: 440 nm EM: 450 nm (LP) • 19011	EX: 540-580 nm DM 600 nm EM: 615-665 nm • 39010	AE.3252.ND02 Neutral density filter, ND 0.20 (T 65 %)
				AE.3252.ND03 Neutral density filter, ND 0.30 (T 50 %)
	LysoTracker Blue/MeOH - EX: 373 nm EM: 425 nm	Propidium Iodide - EX: 536 nm EM: 617 nm	Texas Red®-X - EX: 595 nm EM: 615 nm	AE.3252.ND04 Neutral density filter, ND 0.40 (T 40 %)
	EX: 361-389 nm DM 415 nm EM: 435-485 nm • 39000	EX: 528-552 nm DM 565 nm EM: 590-650 nm • 39005	EX: 540-580 nm DM 600 nm EM: 615-665 nm • 39010	AE.3252.ND05 Neutral density filter, ND 0.50 (T 32 %)
				AE.3252.ND06 Neutral density filter, ND 0.60 (T 25 %
	LysoTracker Green/pH 5.2 - EX: 504 nm EM: 511 nm	Pulsar™ 650 - EX: 460 nm EM: 650 nm	TO-PRO™-3 - EX: 642 nm EM: 661 nm	AE.3252.ND10 Neutral density filter, ND 1.0 (T 10 %)
	EX: 465-495 nm DM 505 nm EM: 515-555 nm • 39002	EX: 465-495 nm DM: 505 nm EM: 600 nm (LP) • 19010	EX: 595-645 nm DM 655 nm EM: 665-715 nm • 39007	AE.3252.ND13 Neutral density filter, ND 1.3 (T 5 %)
	LysoTracker Yellow HCK-123 - EX: 486 nm EM: 563 nm	Quasar® 670 - EX: 647 nm EM: 670 nm	Topaz - EX: 514 nm EM: 529 nm	On request, microscopes can be equipped with more specific,
	EX: 465-495 nm DM 505 nm EM: 590-650 nm • 39009	EX: 595-645 nm DM 655 nm EM: 665-715 nm • 39007	EX: 485-505 nm DM 515 nm EM: 525-555 nm • 39003	optimized and application related fluorescence filter sets



life science

stereo microscopes



stereo microscopes



Euromex stereo microscopes enable you to examine and analyze your specimens in both two and three dimensions. Combined with LED illumination the high-performance digital cameras and easy-to-use ImageFocus software provide perfect solutions for precise analysis and documentation

NEXIUSZOOM • PAGE 204

STEREOBLUE • PAGE 214

DZ SERIES • PAGE 218

Z SERIES • PAGE 224

P SERIES • PAGE 230



suitable for highly demanding applications. These top level zoom microscopes are perfect for analyzing all kinds of material surfaces or for observing and preparing biological samples

These stereo microscopes are supplied with a large choice of stands, with or without LED illumination. Ideal for a wide variety of educational and life science applications. With additional lenses and objectives

magnifications from 3.3x up to 220x can be achieved



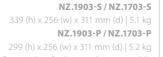








NZ.1903-S



HIGHLIGHTS

- Binocular and trinocular heads with HWF 10x/22 mm or HWF 10x/23 mm eyepieces
- Zoom ratio 1: 6.7, 6.7x to 45x or 1:8.4, 6.5x to 55x
- Click-stops standard on EVO models
- **Ergonomic stands**
- **Double 3 W LED illuminations**
- Configurations up to 220x magnification
- Large working distance (WD)
- 10 Years warranty



SPECIFICATIONS

EYEPIECES

The standard NexiusZoom is supplied with a pair of HWF 10x/22 mm eyepieces. The NexiusZoom EVO is supplied with a pair of HWF 10x/23 mm eyepieces

HEAD

Binocular or trinocular heads with 45° inclined tubes. Both eyepieces have ± 5 diopter adjustments. Interpupillary distance adjustable between 54 mm and 75 mm. Trinocular head is supplied with a fixed light path beam splitter (50:50). The NexiusZoom EVO models are now equipped with click-stops

OBJECTIVES

The standard NexiusZoom is supplied with a 1:6.7 zoom objective with 0.67x to 4.5x magnifications, a field of view from 33 mm to 4.9 mm. Working distance 110 mm

The NexiusZoom EVO is supplied with a 1:8.4 zoom objective with 0.65x to 5.5x magnifications, a field of view from 35.4 mm to 4.2 mm. WD 110 mm

All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

AUXILIARY LENSES

For extra working distances the following auxiliary lenses are available for both the standard NexiusZoom and NexiusZoom EVO: 0.3x, 0.4x, 0.5x, 0.75x, 1.5x and 2.0x. For fields of view and working distances, see table magnifications



POLARIZATION

The NexiusZoom and NexiusZoom EVO can be supplied with an optional 360° rotatable circular stage with built-in polarization filter and/or an optional rotatable analyzer filter in mount to be screwed under the objective

STAND

- Ergonomic pillar or rack & pinion stand with 3 W incident and 3 W transmitted LED illuminations (-P and -S stands)
- Ergonomic pillar stand with two 3 W goose-neck type incident LED illuminations on each side and a 3 W transmitted LED illumination (-PG stand)
- Ergonomic pillar stand with rotating mirror and 3 W LED transmitted and incident illuminations (-M stand)
- Ergonomic universal or boom stands, without illumination (-U, -B and BC stands)
- Articulated arm stand for table mounting or with heavy desktop base plate, both without head holder, without illumination (-A and -AP stands)

All pillar and rack & pinion stands are supplied with two object clamps. Alloy metal cast, hardened coating



STAGE

180 x 155mm X-Y mechanical stage with 76 x 55mm translation stage and transparent glass plate for NexiusZoom, fixed on stage of microscope. Only available with new microscopes (due to fixing), so it has to be ordered with the purchase of a microscope (see picture: NZ.9505)

ILLUMINATION

3 W transmitted and incident LED illuminators with internal power supply 100-240 V. Both illuminators can be used simultaneously and the light intensities can be adjusted separately. The universal single or double arm stands and the articulated stands can be equipped with the ring LED illuminators LE.1974 and LE.1973 and the LED cold light sources LE.5207 and LE.5212, ideal for creating or lifting shades

PACKAGE CONTENT

Supplied with power cord, dust cover, a spare fuse and user manual. All packed in a polystyrene box



Check out the product video on YouTube and learn more about this microscope. YouTube channel: Euromex Optics Group B.V.



MAGNIFICATIONS

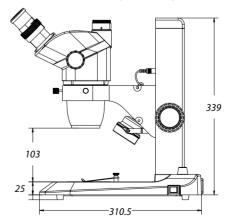
NexiusZoom: working distance and field of view with standard HWF 10x / 22 high wide field eyepieces

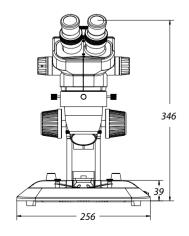
Zoom indication	Auxiliary lens Auxiliary lens 0.3x WD 287 mm 0.4x WD 220 mm			Auxiliary lens Auxiliary lens 0.5x WD 183 mm 0.75x WD 105 mm			Without auxiliary lens WD 110 mm		Auxiliary lens 1.5x WD 53 mm		Auxiliary lens 2x WD 34 mm			
	Total mag.	FoV in mm	Total mag.	FoV in mm	Total mag.	FoV in mm	Total mag.	FoV in mm	Total mag.	FoV in mm	Total mag.	FoV in mm	Total mag.	FoV in mm
0.67	2.0	109.5	2.7	82.1	3.35	65.7	5.0	43.8	6.7	32.8	10.1	21.9	13.4	16.4
0.7	2.1	104.8	2.8	78.6	3.5	62.9	5.3	41.9	7.0	31.4	10.5	21.0	14.0	15.7
0.8	2.4	91.7	3.2	68.8	4.0	55.0	6.0	36.7	8.0	27.5	12.0	18.3	16.0	13.8
1.0	3.0	73.3	4.0	55.0	5.0	44.0	7.5	29.3	10.0	22.0	15.0	14.7	20.0	11.0
1.5	4.5	48.9	6.0	36.7	7.5	29.3	11.3	19.6	15.0	14.7	22.5	9.8	30.0	7.3
2.0	6.0	36.7	8.0	27.5	10.0	22.0	15.0	14.7	20.0	11.0	30.0	7.3	40.0	5.5
3.0	9.0	24.4	12.0	18.3	15.0	14.7	22.5	9.8	30.0	7.3	45.0	4.9	60.0	3.7
4.0	12.0	18.3	16.0	13.8	20.0	11.0	30.0	7.3	40.0	5.5	60.0	3.7	80.0	2.8
4.5	13.5	16.3	18.0	12.2	22.5	9.8	33.8	6.5	45.0	4.9	67.5	3.3	90.0	2.4

NexiusZoom EVO: working distance and field of view with standard HWF 10x / 23 high wide field eyepieces

	•		•		•		•		•		•		ry lens 34 mm
Total mag.	FoV in mm	Total mag.	FoV in mm	Total mag.	FoV in mm	Total mag.	FoV in mm	Total mag.	FoV in mm	Total mag.	FoV in mm	Total mag.	FoV in mm
1.95	117.9	2.6	88.5	3.25	70.8	4.9	47.2	6.5	35.4	9.8	23.6	13.0	17.7
3.0	76.7	4.0	57.5	5.0	46.0	7.5	30.7	10.0	23.0	15.0	15.3	20.0	11.5
4.5	51.1	6.0	38.3	7.5	30.7	11.3	20.4	15.0	15.3	22.5	10.2	30.0	7.7
6.0	38.3	8.0	28.8	10.0	23.0	15.0	15.3	20.0	11.5	30.0	7.7	40.0	5.8
7.5	30.7	10.0	23.0	12.5	18.4	18.8	12.3	25.0	9.2	37.5	6.1	50.0	4.6
9.0	25.6	12.0	19.2	15.0	15.3	22.5	10.2	30.0	7.7	45.0	5.1	60.0	3.8
10.5	21.9	14.0	16.4	17.5	13.1	26.3	8.8	35.0	6.6	52.5	4.4	70.0	3.3
12.0	19.2	16.0	14.4	20.0	11.5	30.0	7.7	40.0	5.8	60.0	3.8	80.0	29
13.5	17.0	18.0	12.8	22.5	10.2	33.8	6.8	45.0	5.1	67.5	3.4	90.0	2.6
15.0	15.3	20.0	11.5	25.0	9.2	37.5	6.1	50.0	4.6	75.0	3.1	100.0	2.3
16.5	13.9	22.0	10.5	27.5	8.4	41.3	5.6	55.0	4.2	82.5	2.8	110.0	2.1
	1.95 3.0 4.5 6.0 7.5 9.0 10.5 12.0 13.5	mag. in mm 1.95 117.9 3.0 76.7 4.5 51.1 6.0 38.3 7.5 30.7 9.0 25.6 10.5 21.9 12.0 19.2 13.5 17.0 15.0 15.3	Total mag. FoV in mm Total mag. 1.95 117.9 2.6 3.0 76.7 4.0 4.5 51.1 6.0 6.0 38.3 8.0 7.5 30.7 10.0 9.0 25.6 12.0 10.5 21.9 14.0 12.0 19.2 16.0 13.5 17.0 18.0 15.0 15.3 20.0	O.3x WD ≥87 mm O.4x WD ≥20 mm Total mag. FoV mag. FoV mag. FoV mag. 1.95 117.9 2.6 88.5 3.0 76.7 4.0 57.5 4.5 51.1 6.0 38.3 6.0 38.3 8.0 28.8 7.5 30.7 10.0 23.0 9.0 25.6 12.0 19.2 10.5 21.9 14.0 16.4 12.0 19.2 16.0 14.4 13.5 17.0 18.0 12.8 15.0 15.3 20.0 11.5	O.3x WD ≥87 mm O.4x WD ≥20 mm O.5x WD mag. Total mag. FoV in mm Total mag. FoV in mm Total mag. 1.95 117.9 2.6 88.5 3.25 3.0 76.7 4.0 57.5 5.0 4.5 51.1 6.0 38.3 7.5 6.0 38.3 8.0 28.8 10.0 7.5 30.7 10.0 23.0 12.5 9.0 25.6 12.0 19.2 15.0 10.5 21.9 14.0 16.4 17.5 12.0 19.2 16.0 14.4 20.0 13.5 17.0 18.0 12.8 22.5 15.0 15.3 20.0 11.5 25.0	O.3x WD ≥87 mm O.4x WD ≥20 mm O.5x WD ≥87 mm Total mag. FoV in mm Total mag. FoV mag. Total mag. FoV mag. 70.8 20.0 46.0 46.0 38.3 7.5 30.7 30.7 30.7 28.0 28.8 10.0 23.0 23.0 12.5 18.4 9.0 25.6 12.0 19.2 15.0 15.3 15.3 16.4 17.5 13.1 12.0 11.5 21.9 14.4 20.0 11.5 15.0 15.3 10.2 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0	O.3xWD ≥87 mm O.4xWD ≥20 mm O.5xWD 183 mm 75xWD Total mag. FoV in mm Total mag. FoV mag. Total mag. A.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9	O.3xWD ≥87 mm O.4xWD ≥20 mm O.5xWD 183 mm 75xWD ≥5 mm Total mag. FoV in mm Total mag. FoV mag. Total mag. FoV mag. Total mag. FoV mag. Total mag. FoV mag. 7.5 30.7 4.0 4.2 2.5 30.7 11.3 20.4 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	0.3x WD ≥87 mm 0.4x WD ≥20 mm 0.5x WD 183 mm 75x WD 155 mm lens WD 15 mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. A 7.5 30.7 10.0 20.0 46.0 7.5 30.7 10.0 20.0 15.0 15.3 20.0 10.0 23.0 15.0 15.3 22.5 10.2 30.0 30.0 30.0 10.0 30.0 10.0 10.0 10.0 10.0 1	O.3xW≥87 mm O.4xW≥20 mm O.5xW≥3 mm 75xW≥5 mm lens W≥10 mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm Total mag. FoV in mm 35.4 35.4 35.4 35.0 35.4 4.6 7.5 30.7 10.0 23.0 15.3 20.0 15.3 20.0 11.5 15.3 20.0 11.5 9.2 9.2 10.2 30.0 7.7 40.0 5.8 13.5 15.0 15.0 15.1 15.0 15.1	O.3x WD ≥87 mm O.4x WD ≥20 mm O.5x WD 183 mm 75x WD 10mm lens WD 10 mm 1.5x WD 10mm Total mag. FoV in mm Total mag. PoV in mm To	O.3xWD ≥87 mm O.4xWD ≥0 mm O.5xWD ≥3 mm 75xWD ≥5 mm lens WD ≥0 mm 1.5xWD ≥3 mm FoV mag. Total mag. FoV mag. 23.6 23.6 23.6 15.0 15.0 23.0<	O.3xWD ≥87 mm O.4xWD ≥20 mm O.5xWD 183 mm 75xWD 15 mm lens WD 10 mm 1.5xWD 3 mm 2xWD 3 mm Total mag. FoV mag. Total mag. FoV mag. Total mag. Total mag. FoV mag. Total mag. Total mag. FoV mag. Total mag. FoV mag. Total mag. Total mag. FoV mag. Total mag. FoV mag. Total mag. FoV mag. Total mag. Total mag. Total mag. Total mag. To

WD = working distance, FoV = Field of view, Total mag. = total magnification









NEXIUSZOOM 0.67-4.5 (WF 10X/22MM)

MODELS	Bino	Trino	Pillar stand	Rack & pinion stand	Universal stand	Boom stand on heavy base plate	Boom stand on table clamp	Articulated arm stand on table clamp	Articulated arm stand on heavy base plate	Gooseneck dual LED	Mirror LED	Weight (kg)
NZ.1902-P	•		•									5.0
NZ.1902-PG	•		•							•		5.1
NZ.1902-M	•		•								•	4.9
NZ.1902-S	•			•								4.9
NZ.1902-U	•				•							15.6
NZ.1902-B	•					•						22.1
NZ.1902-BC	•						•					10.5
NZ.1902-A	•							•				8.6
NZ.1902-AP	•								•			20.7
NZ.1903-P		•	•									5.2
NZ.1903-PG		•	•							•		5.3
NZ.1903-M		•	•								•	5.1
NZ.1903-S		•		•								5.1
NZ.1903-U		•			•							15.7
NZ.1903-B		•				•						22.2
NZ.1903-BC		•					•					10.6
NZ.1903-A		•						•				8.7
NZ.1903-AP		•							•			20.8

NEXIUSZOOM EVO 0.65-5.5 (WF 10X/23MM)

MODELS	Bino	Trino	Pillar stand	Rack & pinion stand	Universal stand	Boom stand on heavy base plate	Boom stand on table clamp	Articulated arm stand on table clamp	Articulated arm stand on heavy base plate	Gooseneck dual LED	Mirror LED	Weight (kg)
NZ.1702-P												5.0
NZ.1702-PG	•		•							•		5.1
NZ.1702-M	•											4.9
NZ.1702-S	•			•								4.9
NZ.1702-U	•				•							15.6
NZ.1702-B	•					•						22.1
NZ.1702-BC	•						•					10.5
NZ.1702-A	•							•				8.6
NZ.1702-AP	•								•			20.7
NZ.1703-P		•	•									5.2
NZ.1703-PG		•	•							•		5.3
NZ.1703-M		•	•								•	5.1
NZ.1703-S		•		•								5.1
NZ.1703-U		•			•							15.7
NZ.1703-B		•				•						22.2
NZ.1703-BC		•					•					10.6
NZ.1703-A		•						•				8.7
NZ.1703-AP		•							•			20.8

The NexiusZoom EVO models are now equipped with click-stops

ACCESSORIES AND SPARE PARTS

HEADS & EYEPIECES

NZ.5302	NZ binocular head 0.67-4.5x*
NZ.5303	NZ trinocular head 0.67-4.5x*
NZ.5312	NZ EVO binocular head 0.65-5.5x*
NZ.5313	NZ EVO trinocular head 0.65-5.5x*

^{*} without head holder

NZ.6010	Pair of HWF 10x/22 mm eyepieces
NZ.6010-C	HWF 10x/22 mm eyepiece only with crosshairs
NZ.6010-CM	HWF 10x/22 mm eyepiece only with 10/100
	micrometer and crosshairs

NZ.6015 Pair of HWF 15x/16 mm eyepieces fo	r NZ
--------------------------------------------	------

NZ.6020	Pair of HWF 20x/12 mm eyepieces for NZ

NZ.6099 Pair of eyecups for NZ

NZ.6110 HWF 10x/22 mm eyepiece with crosshairs and

10/100 micrometer for NZ

Pair of HWF 10x/23 mm eyepieces for NZ EVO NZ.6210

NZ.6210-C HWF 10x/22 mm eyepiece only with crosshairs

for NZ EVO

NZ.6210-CM HWF 10x/22 mm eyepiece only with 10/100 micrometer and crosshairs for NZ EVO

AUXILIARY LENSES

Only suitable for A, AP, U, B, BC and M stands NZ.8904 Additional 0.4x lens for NZ. WD 220 mm. Only suitable for P, PG, A, AP, U, B, BC nd M stands NZ.8905 Additional 0.5x lens for NZ. WD 183 mm. Only suitable for P, PG, A, AP, U, B, BC nd M stands NZ.8907 Additional 0.75x lens for NZ. WD 105 mm. Only suitable for P, PG, A, AP, U, B, BC nd M stands NZ.8915 Additional 1.5x lens for NZ. WD 53 mm NZ.8920 Additional 2.0 lens for NZ. WD 34 mm	NZ.8903	Additional 0.3x lens for NZ. WD 287 mm.
Only suitable for P, PG, A, AP, U, B, BC nd M stands NZ.8905 Additional 0.5x lens for NZ. WD 183 mm. Only suitable for P, PG, A, AP, U, B, BC nd M stands NZ.8907 Additional 0.75x lens for NZ. WD 105 mm. Only suitable for P, PG, A, AP, U, B, BC nd M stands NZ.8915 Additional 1.5x lens for NZ. WD 53 mm		Only suitable for A, AP, U, B, BC and M stands
 NZ.8905 Additional 0.5x lens for NZ. WD 183 mm. Only suitable for P, PG, A, AP, U, B, BC nd M stands NZ.8907 Additional 0.75x lens for NZ. WD 105 mm. Only suitable for P, PG, A, AP, U, B, BC nd M stands NZ.8915 Additional 1.5x lens for NZ. WD 53 mm 	NZ.8904	Additional 0.4x lens for NZ. WD 220 mm.
suitable for P, PG, A, AP, U, B, BC nd M stands NZ.8907 Additional 0.75x lens for NZ. WD 105 mm. Only suitable for P, PG, A, AP, U, B, BC nd M stands NZ.8915 Additional 1.5x lens for NZ. WD 53 mm		Only suitable for P, PG, A, AP, U, B, BC nd M stands
NZ.8907 Additional 0.75x lens for NZ. WD 105 mm. Only suitable for P, PG, A, AP, U, B, BC nd M stands NZ.8915 Additional 1.5x lens for NZ. WD 53 mm	NZ.8905	Additional 0.5x lens for NZ. WD 183 mm. Only
suitable for P, PG, A, AP, U, B, BC nd M stands NZ.8915 Additional 1.5x lens for NZ. WD 53 mm		suitable for P, PG, A, AP, U, B, BC nd M stands
NZ.8915 Additional 1.5x lens for NZ. WD 53 mm	NZ.8907	Additional 0.75x lens for NZ. WD 105 mm. Only
		suitable for P, PG, A, AP, U, B, BC nd M stands
NZ.8920 Additional 2.0 lens for NZ. WD 34 mm	NZ.8915	Additional 1.5x lens for NZ. WD 53 mm
	NZ.8920	Additional 2.0 lens for NZ. WD 34 mm

STANDS

NZ.9000	Ergo pillar stand without illumination
NZ.9005	Ergo pillar stand with adjustable transmitted
	3 W LED illumination
NZ.9010	Ergo rack & pinion stand with incident and
	transmitted 3 W LED illuminators
NZ.9015	Ergo pillar stand with incident and transmitted
	3 W LED illuminators
NZ.9018	Ergonomic pillar stand with two
	3 W gooseneck type incident LED illuminations

on each side and a 3 W transmitted LED illumination NZ.9020 Universal one-arm stand without NZ head holder

NZ.9025 Black universal stand with table clamp without NZ head holder NZ.9027 Black universal stand with heavy baseplate

without NZ head holder

NZ.9030 Universal double-arm boom stand without NZ head holder

NZ.9032 Universal two-arm stand with table clamp without NZ head holder

NZ.9042 Stand with rotating mirror and indirect transmitted LED illumination



NZ.8903













NZ.8920

HEAD HOLDERS

NZ.9081

	stand NZ.9025/NZ.9027
NZ.9090	NZ head holder for NZ.9020/9030/9032
	pillar stands
NZ.9095	NZ head holder with fine and coarse adjustment
	for NZ.9020/9030/9032 pillar stands.

Only available with new microscopes

Head holder (76 mm) for NZ and black universal



ILLUMINATION

LE.5207	Multi-functional dual 3 W LED adjustable light
	source. Equipped with two flexible gooseneck
	arms with LED illuminator
LE.5212	Euromex illumination station with two
	independently controlled goosenecks, a ring
	light and a transmitted stage illuminator (see
	photos on next page)
LE.5260	Interchangeable high power (standard) white
	6500K light guide for NZ.9018/LE.5207/LE.5212, 1 pc
LE.5261	Interchangeable high power 365 nm flexible
	arm for NZ.9018/LE.5207/LE.5212, 1 pc
LE.5262	Interchangeable high power 395 nm flexible
	arm for NZ.9018/LE.5207/LE.5212, 1 pc
LE.5263	Interchangeable high power 420 nm flexible are
	for NZ.9018/LE.5207/LE.5212, 1 pc
LE.1974	Ring illuminator with 72 LEDs with adjustable
	light intensity. External power supply 110-240
	Vac / 12 Vdc (50/60 Hz). With segment controller.
	Brightness of 20,000 Lux at 100 mm distance
	and color temperature of 6,500 K. Mounting for
	stereo head with diameter from 25 to 61 mm

E.1973	Ring illuminator with 144 LEDs with adjustable
	light intensity. External power supply 100-240

Vac / 12 Vdc (50/60 Hz). With segment controller. Brightness of 23,000 Lux at 100 mm distance

and color temperature of 6,500 K. Mounting for stereo head with diameter from 25 to 61 mm

LE.5210 Euromex cold light illuminator EK-1, 100 W.

110V and 230V models available

LE.5211 Euromex cold light illuminator, 150 W halogen.

110 V and 230 V models available

LE.5211-LED Euromex cold light illuminator LED, 30W high power LED

LE.5214 Dual arm light conductor, gooseneck selfsustaining, 50 cm long, 4 mm diameter core

LE.5215 Triple arm light conductor, gooseneck elfsustaining, 50 cm long, 4 mm diameter core

LE.5222 Focusing head suitable for focusing lens LE.5214

and LE.5215. Needs LE.5224 Aspherical focusing lens for mounting in LE.5222 LE.5224

More illumination options, see chapter 11

STAGES

NZ.9505	Mechanical 180 x 155 mm X-Y stage with
	75x55 mm translation and transparent glass plate
NZ.9524	360° rotatable circular stage with built-in
	polarization filter for NZ
NZ.9525	360° rotatable analyzer in mount to be screwed
	under head of NZ
AE.1960	Round positioning table
AE.5168-NZ	Heating stage for NZ microscope stage

CAMERA ACCESSORIES

	1/3 inch cameras
NZ.9850	C-mount adapter with 0.5x lens for
	1/2 inch cameras
AE.5130	Universal SLR adapter with built-in 2x lens for
	standard 23.2 mm tube. Needs T2 adapter
AE.5025	T2 adapter for Nikon D SLR digital camera
AE.5040	T2 adapter for Canon EOS SLR digital camera

C-mount adapter with 0.33x lens for



MISCELLANEOUS

NZ.8950 Protection glass window for NZ NZ.9520 Polarization kit for NZ: 360° rotatable circular stage with built-in polarization filter (NZ.9524) + analyzer in mount to be screwed under head (NZ.9525)

Darkfield attachment for NZ NZ.9040

NZ.9570 Pair of object clamps for standard stage NZ.9572 Adjustable GEM object clamp for P, PL

and S stand of NZ

NZ.9950 Standard plexiglass object plate, opaque,

with black border

NZ.9956 Pair of object stage plates (black/white)

Ø 90 mm

NZ.9958 Standard glass object plate, opaque

NZ.9983-R 3 W LED replacement unit for NZ,

incident illumination

NZ.9983 3 W LED replacement unit for NZ,

transmitted illumination

AE.1112 Micrometer 76 x 26 mm slide, 50 mm/500

divisions, 100 µm per division

DISPOSABLES

PB.5245

PB.5274 Isopropyl alcohol 99%, 200 ml PB.5275 Cleaning kit: lens fluid, lint free lens tissue/ paper, brush, air blower, cotton swabs PB.5276 Microscope maintenance and servicing kit, 16pcs: cleaning brush, 6 pcs screwdriver set, air blower, 3 pcs Allen key 1.5, 2, 2.5 mm,

Lens cleaning paper, 100 sheets per pack

lens cleaning fluid 20 ml, cleaning cloth 140 x 140 mm, 100 pcs lens tissue sheets, tube of maintenance grease, 10 ml bottle of oil, packed in a toolbox

NZ = NexiusZoomWD = working distance





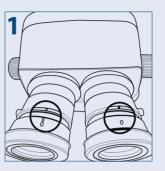


• The LE.5212 in two different configurations

how to set up a

stereo microscope

Setting up your stereo microscope properly is essential to getting parfocal images during the entire zoom range. It also prevents head aches, stressful eyes and fatigue. Below you will find a setup guide that will help get the best out of your microscope



Turn the diopter adjustment rings of both eyepieces to position "0"



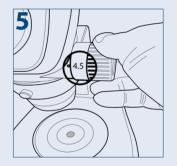
Rotate the focus adjustment knob to bring the specimen into focus



Turn the zoom adjustment knob to the lowest magnification



Put a specimen on the stage plate



Turn the zoom adjustment knob to the highest magnification



Rotate the diopter adjustment rings of the left and right eyepiece to bring the specimen into focus



OUICK

INSTALLATION

Turn the zoom adjustment knob to the lowest magnification



Rotate the focus adjustment knob to bring the specimen into focus

PLEASE NOTE

Put the zoom adjustment knob at the highest magnification again and check the image focusing. The diopter adjustment is complete when the image is accurately focused during zooming

If not, please repeat steps 3 to 8



● SB.1903

Equipped with either a parfocal zoom system with 1:6.4 zoom ratio or a double magnification revolver both with LED illumination, the StereoBlue range guarantees crisp, high resolution images

SB.1903

330 (h) x 220 (w) x 266 mm (d) | 4.4 kg SB.1903-P

299 (h) x 220 (w) x 266 mm (d) | 4.7 kg

SB.1302/SB.1402 SB.1302-P/SB.1402-P

HIGHLIGHTS

- Designed for professional use
- Robust and sturdy
- WF 10x/21 mm eyepieces
- Dual magnification or zoom models
- Available in ergonomic rack & pinion, pillar, universal and boom stands
- Double 3 W LED illumination
- Also available with batteries
- Ergonomic carrying grip
- 5 Years warranty



SPECIFICATIONS

EYEPIECES

Pair of WF 10x/21 mm secured eyepieces supplied with eyecups

HEAD

- · Binocular or trinocular 45° inclined tubes
- · Diopter adjustment on both eyepieces, except the models SB.1302-P/1402-P and SB.1302 /1402, which have diopter adjustment on one side
- Interpupillary distance adjustable between 55 mm and 75 mm
- Trinocular head is supplied with a fixed light path beam splitter (50:50)

All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

DUAL MAGNIFICATION OBJECTIVES

- Nosepiece with dual 1x/3x or 2x/4x revolving objectives
- Magnifications 10x/30x or 20x/40x
- Field of view 21 mm/6.9 mm or 10.5 mm/5.25 mm
- · Working distance 100 mm

ZOOM OBJECTIVE

- Zoom stereo 0.7x to 4.5x parfocal objective
- · Magnification from 7x to 45x



Built-in ring light with 30 intensity adjustable LED's

- Field of view 29.9 mm to 4.6 mm
- · Working distance 100 mm

STAND

The rack & pinion and pillar stands of the StereoBlue are equipped with ergonomic flat bases, complete with two object clamps and Ø 60 mm transparent and black/white stage plates. The coarse adjustment is equipped with tension control

The ergonomically designed universal (single arm) and boom stand (dual arm) are ideal for looking at large samples or working under the microscope. They come without illumination. Suitable for e.g. ring illuminators LE.1973 and LE.1974. The stands are alloy metal casted with hardened

More illumination options see chapter 10 (Accessories)

SPECIFICATIONS

ILLUMINATION

3 W transmitted and incident LED illuminators which can be used simultaneously. Model SB.3903 and SB.3903-P are equipped with 3 W transmitted and incident LED illuminators and a built-in 30 LED ring light incident illuminator. The light intensities can be adjusted separately. Also available with batteries (add "B" after article number, e.g. SB.1302-PB)

PACKAGE CONTENT

Models with illumination are supplied with power cord, dust cover, eyecups, a spare fuse, Ø 60 mm transparent and black/ white stage plates and user manual. All packed in a polystyrene box



Check out the product video on YouTube and learn more about the BlueLine. YouTube channel: Euromex Optics Group B.V.



MODELS	Bino	Trino	1x/3x objective	2x/4x objective	0.7 - 4.5x zoom	Rack & pinion stand 3 W LED	Pillar stand 3 W LED	Universal stand	Boom stand on heavy base plate	30 LED right light	Weight (kg)
SB.1302	•		•			•					3.3
SB.1302-P	•		•				•				4.2
SB.1402	•			•		•					3.3
SB.1402-P	•			•			•				4.2
SB.1902	•				•	•					3.6
SB.1902-P	•				•		•				4.4
SB.1902-U	•				•			•			15.4
SB.1902-B	•				•				•		21.9
SB.1903		•			•	•					3.7
SB.1903-P		•			•		•				4.5
SB.1903-U		•			•			•			15.5
SB.1903-B		•			•				•		22.0
SB.3903		•			•	•				•	3.7
SB.3903-P		•			•		•			•	4.5

ACCESSORIES AND SPARE PARTS

EYEPIECES

SB.6210	Pair of HWF 10x/21 mm eyepieces	SB.9570	Pair of object clamps for stage
SB.6210-C	WF 10X/21 mm eyepiece with crosshairs	SB.9952	Stage plate transparent, Ø 60 mm
SB.6210-M	WF 10X/21 mm eyepiece with micrometer scale	SB.9956	Stage plate black/white, Ø 60 mm
SB.6015	Pair of HWF 15x/15 mm eyepieces	SB.9983-R	3 W LED replacement unit,
SB.6015-C	WF 15X/15 mm eyepiece with crosshairs		incident illumination
SB.6015-M	WF 15X/15 mm eyepiece with micrometer scale	SB.9983	3 W LED replacement unit,
SB.6020	Pair of HWF 20x/10 mm eyepieces		transmitted illumination
SB.6020-C	WF 20/10 mm eyepiece with crosshairs	AE.1112	Micrometer 76 x 26 mm slide, 50 mm/50 divisions
SB.6020-M	WF 20/10 mm eyepiece with micrometer scale		

AUXILIARY LENSES

Pair of eyecups

SB.8903	Auxiliary 0.3x lens for zoom models,	AE.5130	Universal SLR camera adapter with 2x projection
	WD 247 mm. Only suitable for boom and		lens for 23.2 mm tubes. Needs T2 adapter
	articulated stands	AE.5025	T2 adapter for Nikon D digital SLR cameras
SB.8905	Auxiliary 0.5x lens for zoom models, WD 170 mm.	AE.5040	T2 adapter for Canon EOS digital SLR cameras
	Only suitable for SB.1902-P, SB.1903-P, SB.1902-U,	Other T2 ac	dapters on request
	SB.1903-U, SB.1902-B and SB.1903-B		
SB.890 7	Auxiliary 0.75x lens for zoom models, WD 114 mm	DISPOS	SABLES
SB.8915	Auxiliary 1.5x lens for zoom models, WD 48 mm.	PB.5245	Lens cleaning paper, 100 sheets per pack

CAMERA ACCESSORIES

PB.5245	Lens cleaning paper, 100 sheets per pack
PB.5274	Isopropyl alcohol 99% (200 ml)
PB.5275	Cleaning kit: lens cleaning fluid, lint free lens

tissue, brush, air blower, cotton swabs

Only for trinocular models

C-mount adapter with 0.5x lens for 1/2" cameras.

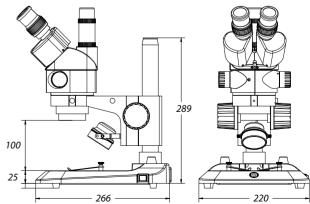
POLARIZATION ATTACHMENT

Not suitable for SB.39xx

SB.9520	Polarization kit: 360° rotatable circular stage with
	built-in polarization filter (SB.9524) + analyzer in
	mount to be screwed under the head (SB.9525)
SB.9524	360° rotatable circular stage with
	built-in polarization filter
SB.9525	360° rotatable analyzer in mount
	to be screwed under the head
	•

MISCELLANEOUS

SB.8950	Protection glass window
SB.9020	Universal single-arm stand without
	head holder and without illumination
SB.9030	Universal double-arm stand without
	head holder and without illumination
SB.9090	Head holder for SB.9020
SB.9040	Darkfield attachment,
	only for –S and –P models





HIGHLIGHTS

- Binocular and trinocular models
- Six standard configurations or customized configuration
- Ergonomic tilting head from 0° to 35° tilting or fixed 20° inclined head, EWF 10x/22mm eyepieces,
- Three central zoom units from 4x to 320x
- Fields of view from 55 mm to 1.4 mm
- Working distances from 126 mm to 33 mm
- Ergonomic rack & pinion stands, universal stand or articulated arm stand
- Transmitted and incident LED illumination
- 100 W epi-fluorescence mercury vapor illuminator
- 10 Years warranty

SPECIFICATIONS

EYEPIECES

Pair of EWF 10x/22 mm eyepieces

HEAD

- Ergonomic binocular 0-35° tilting head
- · Binocular 20° tilted head
- Diopter ± 5 adjustment on both eyepieces
- · Interpupillary distance from 55 to 75 mm
- Photo ports for one or two cameras
- · Click-stops

DZ.1100 / DZ.1600 / DZ.1800

DZ.1105 / DZ.1605 / DZ.1805 444 (h) x 330 (w) x 285 (d) mm | 5.2 kg

CENTRAL ZOOM UNIT

Three central zoom units are available:

- 1:6.3 for total magnifications from 8 to 50x
- 1:8 for total magnifications from 8 to 64x
- 1:10 for total magnifications from 8 to 80x

COMMON MAIN OBJECTIVE

Standard configurations are supplied with a plan apochromatic common main objective (CMO) 1x, working distance 78 mm. Other plan apochromatic common main objectives 0.5x (WD 126 mm) and 2x (WD 33 mm) are also available



 Customized specification fluorescence model

All optics have an anti-reflection coating for maximum light throughput and are anti-fungus treated

STAND

Large ergonomic stand with Ø 100 mm object plate and two object clamps. Coarse adjustment with adjustable friction. A universal stand and an articulated arm stand without illumination are also available for configurations built to customer's specifications

ILLUMINATION

The transmitted and incident 3 W LED illuminations are supplied with a built-in 100-240 V power supply. Both illuminators can be used simultaneously and the light intensities can be adjusted separately

PACKAGE CONTENT

Supplied with power cord, dust cover, a spare fuse and user manual. All packed in a polystyrene box







scientific research such as for studies of

vertebrate development and gene

function, teratology, genetics and

environmental sciences















STANDARD CONFIGURATIONS

All six standard configurations are equipped with EWF 10x/22mm eyepieces, plan achromatic common main objective (CMO) 1x and rack & pinion stand with incident and transmitted LED illumination

DZ SERIES STANDARD

MODELS	Binocular 20° head	Binocular ergo 0 to 35° tilting	Magnifications from 8 to 50x	Magnifications from 8 to 64x	Magnifications from 8 to 80x
DZ.1100		•			•
DZ.1105	•				•
DZ.1800		•		•	
DZ.1805	•			•	
DZ.1600		•	•		
DZ.1605	•				

All equipped with EWF 10x/22mm eyepieces

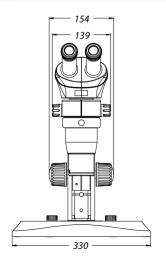
MAGNIFICATIONS AND FIELDS OF VIEW FOR STANDARD CONFIGURATIONS

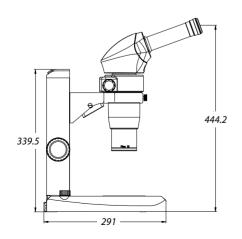
0.5x Objective

				WD 126 n		WD 78 n		WD 33 m	
MC	DE	LS	Zoom indication	Total magnification	Field of view	Total magnification	Field of view	Total magnification	Field of view
			0.8x	4x	55	8x	27.5	16x	13.7
			1.0x	5x	44	10x	22	20x	11
05 // DZ.1805 DZ.1600 / DZ.1605	202	1.5x	7.5x	29.3	15x	14.6	30x	7.3	
	Z.1	2.0x	10x	22	20x	11	40x	5.5	
	0/0	3.0x	15x	14.6	30x	7.3	60x	3.6	
	Z.1	160	4.0x	20x	11	40x	5.5	80x	2.7
105	0/0	DZ	5.0x	25x	8.8	50x	4.4	100x	2.2
Ž.1	DZ.1800 / DZ.1805		6.0x	30x	7.3	60x	3.6	120x	1.8
0/0	DZ		6.4x	32x	6.8	64x	3.4	128x	1.7
DZ.1100 / DZ.1105			7.0x	35x	6.3	70x	3.1	140x	1.5
DZ			8.0x	40x	5.5	80x	2.75	160x	1.4

1.0x Objective

2.0x Objective





BUILD YOUR OWN STEREO MICROSCOPE

A customized DZ series stereo microscope can be configured to customer's specifications by choosing one of the three central zoom units DZ.0630, DZ.0800 or DZ.1000 and adding the necessary components for the application. A pair of eyepieces, an ergonomic 0 to 35° tilting head or fixed 20° inclined head, a 0.5x, 1x or 2x common main objective (CMO), a large ergonomic LED stand, a universal or an articulated arm stand. Other accessories, such as a photo/camera unit or dual iris diaphragm, can complete the configuration

CENTRAL ZOOM UNITS

from 8 to 80 times

CENTRAL ZOOM UNITS		DZ.4020	Plan apochromatic common main objective
DZ.0630	Central zoom unit 1:6.3 with magnifications		2.0x. WD 33 mm
	from 8 to 50 times	All optics ar	e anti-fungus treated and anti-reflection coated for
DZ.0800	Central zoom unit 1:8 with magnifications	maximum l	ight throughput
	from 8 to 64 times		
DZ.1000	Central zoom unit 1:10 with magnifications	STANDS	5

DZ.5020

65.981

NZ.9025

NZ.9027

NZ.9042

NZ.9030

NZ.9032

NZ.9090

HEA

HEADS		DZ.5040	Ergonomic stand with transmitted and
DZ.2020	Ergonomic binocular 0-35° tilting head		incident LED illumination. Coaxial coarse and
	without eyepieces		fine adjustments, 100 graduations, 0.015 mm
DZ.2025	Binocular 20° tilted head without eyepieces		per graduations
	Interpupillary distance from 55 to 75 mm	65.980	Articulated arm stand for mounting on table

EYEPIECES

DZ.3010	EWF TUX/22 eyepiece, I piece
DZ.3012	EWF 10x/22 eyepiece with crosshairs, 1 piece
DZ.3015	WF 15x/16 eyepiece, 1 piece
DZ.3020	WF 20x/12 eyepiece, 1 piece



IRIS DIAPHRAGMS

Double iris diaphragms for increased depth of field

OBJECTIVES

DZ.4003	Plan common main objective 0.3x. WD 276 mm
DZ.4005	Plan apochromatic common main objective
	0.5x. WD 126 mm
DZ.4010	Plan apochromatic common main objective
	1.0x. WD 78 mm

FLUORESCENCE ATTACHMENT

illumination

Attachment for fluorescence with 100 W mercury
vapor illumination with GFP-B and GFP-LP filter
sets and one 23.2 mm photo port. Supplied with
power supply
Filter cube with GFP-B band-pass filter set for
blue excitation, EX 460-500, DM 505, EM 510-560

Universal stand without illumination.

without head holder (65.981)

Head holder 76 mm for DZ series and black articulated arm stand (65.980)

Articulated arm stand with table clamp (without DZ head holder 65.981)

Articulated arm stand with heavy stand (without DZ head holder 65.981)

Stand with rotating mirror and transmitted LED

Boom (double arm) stand with heavy stand

Boom (double arm) stand with table clamp

Head holder (for NZ.9020, NZ. 9030 and NZ.9032)

(without head holder NZ.9090)

(without head holder NZ.9090)

Dimensions 460(h) x 280 (l) x 400 (d) mm

ACCESSORIES/SPARE PARTS

POLARIZATION ATTACHMENTS

DZ.9045 Polarizer, 360° rotatable, to be mounted on common main objectives of DZ series DZ.9047 Polarizer, 360° rotatable, to be placed on

the stage

Other fluorescence filters available on request

DZ.9049 Empty filter cube

DZ.9061

CAMERA ACCESSORIES

DZ.9005 Photo port attachment with one 23.2 mm tube DZ.9007 Photo port attachment with two 23.2 mm tubes **DZ.9013** C-mount 1x objective for insertion into photo port attachments **AE.5130** Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Needs T2 adapter

AE.5025 T2 adapter for Nikon D digital SLR cameras AE.5040 T2 adapter for Canon EOS digital SLR cameras

Other T2 adapters on request



DZ.9020	Large 185 x 145 mm stage with mechanical X-Y
	50 x 50 mm stage, to be moved by hand
DZ.9040	Darkfield attachment for DZ.5040
AE.1112	Micrometer slide, 50 mm/50 divisions
AE.1900	Glass object plate, Ø 100 mm
AE.1903	Acrylic white/black object plate
50.875	Adjustable GEM clamp
SL.5520	LED replacement for incident LED illumination

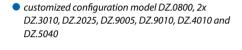
of DZ.5040 stand

DISPOSABLES

	, , , , , , , , , , , , , , , , , , , ,
PB.5245	Lens cleaning paper, 100 sheets per pack
PB.5274	Isopropyl alcohol 99% (200 ml)
PB.5275	Cleaning kit: lens cleaning fluid, lint free lens
	tissue, brush, air blower, cotton swabs

100 W HBO mercury vapor bulb for fluorescence





Filter cube with GFP-L long-pass filter set for Blue

excitation, EX 460-500, DM 505, EM 510





HIGHLIGHTS

 Modular system Binocular and trinocular models

Standard HWF 10x/23 mm eyepieces

Stereo zoom heads with a fixed 45° inclined tubes

Zoom magnification objectives

Superior resolution optics

Multiple stands

10 Years warranty



SPECIFICATIONS

EYEPIECES

Pair of SWF 10x/23 mm eyepieces

HEAD

ZE.1624 and ST.1735

HEAD + STAND ST.1740

- Binocular or trinocular heads with a 45° inclined tubes
- Diopter ± 6° adjustment on both tubes for Z series Interpupillary distance from 55 to 75 mm
- · Optional click-stops

ZOOM MAGNIFICATION OBJECTIVES

- Zoom objective with magnifications from 0.4x to 2.5x
- Zoom objective with magnifications from 0.7x to 4.5x
- Zoom objective with magnifications from 1x to 7x Zoom objectives with click stops are also available on request All optics have an anti-reflection coating for maximum light throughput and are anti-fungus treated

STANDS WITHOUT ILLUMINATION

ST.1710 Pillar stand with ST.1790 head holder. Pillar height 210 mm, diameter Ø 20 mm

ST.1718 Pillar ergonomically flat stand with ST.1790 head holder. Pillar height 213 mm, diameter Ø 20 mm. Dimensions 258 (h) x 330 (w) x 306 (d)

STANDS WITH ILLUMINATION

ST.1740 Rack & pinion stand with 10 W halogen illumination. Supplied with frosted filter for transmitted illumination and a blue filter for incident illumination. Both illuminations are adjustable and can be used simultaneously. With integrated power supply. Dimensions: (d)240 x (w)160 x (h)290 min/max height 240-290 mm

Dimensions 250 (h) x 150 (w)x 240 (d) mm

Stand with 3 W LED illumination and rotatable double-sided coated mirror





















BOOM STANDS

ST.1720 Articulated one arm boom stand with a 270 x 270 mm base, 610 mm and Ø 29 mm pillar, with orientable stereo head holder ST.1794. Vertical post 780 mm. Weight 19.5 kg 65.980 Articulated one arm stand to be mounted on table without 83 mm head holder. Depth positioning of stereo head between 33 and 100 cm. WD between 0 and a maximum of 295 mm 65.983 Head holder 85 mm diameter for 65.980

HEAD HOLDERS

Other optional head holders for boom stands

ST.1790	Head holder with coarse adjustment*
ST.1796	Head holder with coarse and fine adjustment*
ST.1792	Head holder with coarse adjustment and
	opening for one fiber light guide*
ST.1794	Orientable head holder with coarse adjustment
	and opening for one fiber light guide**
ST.1798	Orientable head holder with coarse and fine

adjustment and opening for one fiber

*Not suitable for boom stands ST.1720 and 65.980/65.983

** Only suitable for boom stand ST.1720

light guide**

All head holders have an internal diameter of 84 mm and a friction adjustment

STAGE

AE.1950 Large sliding X-Y stage, 350 x 270 mm, translation by hand

FOCUSING

Coarse adjustment and friction adjustment for head holders for ST.1790, ST.1794, ST1796. The head holders ST.1796 and ST.1798 are also equipped with a fine focusing adjustment

PACKAGE CONTENT

Models with illumination are supplied with power cord, dust cover, a spare fuse and user manual. All packed in a polystyrene box



ZOOM STEREO HEADS

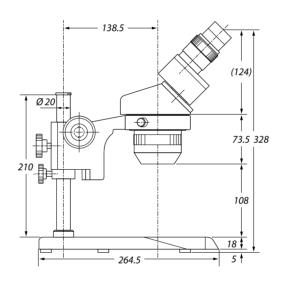
MODELS	Binocular	Trinocular	Tilt tubes	Objective zoom	Magnification	WD (mm)	Field of view (mm)
ZE.1624	•		45°	0.7 - 4.5x	7 - 45x	93	32/5.1
ZE.1654		•	45°	0.7 - 4.5x	7 - 45x	93	32/5.1
ZE.1657		•*	45°	0.7 - 4.5x	7 - 45x	104	32/5.1
ZE.1670	•		45°	1 - 7x	10 - 70x	104	23/3.3
ZE.1671		•*	45°	1 - 7x	10 - 70x	104	23/3.3

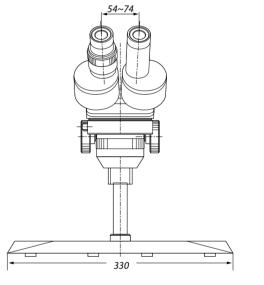
^{*} When the trinocular tube is engaged, the image is still available in both other tubes All zoom stereo heads are supplied with SWF 10x/23 mm eyepieces without eyecups

STANDS

MODELS	Column (mm)	Diameter (mm)	Rack & pinion	Base (w x d mm)	Height (mm)	Head holder	Illumination
ST.1710	210	20		240 x 150	250	ST.1790	
ST.1718	213	20		330 x 306	285	ST.1790	
ST.1720	610	29		780 x 270	650	ST.1794	
ST.1735			•	240 x 160	290		3 W LED
ST.1740			•	240 x 160	290		10 W Hal
65.980/65.983			•	Ø 1000*	0/295	65.983	

^{*} Length with the two arms totally extended





ACCESSORIES AND SPARE PARTS

EYEPIECES (without eyecups)

	(
AE.1835	Pair of SWF 5x/26 mm eyepieces
AE.1836	Pair of SWF 10x/23 mm eyepieces
AE.1834	Pair of SWF 12.5x/20 mm eyepieces
AE.1837	Pair of SWF 15x/16 mm eyepieces
AE.1838	Pair of SWF 20x/11.5 mm eyepieces
AE.1840	Pair of SWF 30x/7.5 mm eyepieces
AE.5439	Pair of eyecups
AE.5425	Pair of eyecups, suitable when
	wearing spectacles

MICROMETER EYEPIECES (with adjustable lens)

AE.1839	SWF 10x/21 mm with 10 mm/100
	micrometer reticle and crosshairs
AE.1841	SWF $10x/21$ mm with 10×10 mm reticle,
	400 squares
AE.1842	SWF 10x/21mm with photo corners marks





10

М	П	\mathbf{c}	R	0	٨	Λ	Ė.	г	ΕI	R	S	П	П	ח	Ē
IVI		_	n	v		/1	_		_	п		_		_	_

AE.1112 Object slide 76 x 26 mm with micrometer

50 mm/500, 100 μm/division

ADDITIONAL LENSES

(for ZE.1659)

AE.1850 Additional 0.7x lens. WD 233 mm **AE.1822** Additional 0.57x lens. WD 300 mm

ADDITIONAL LENSES

(for ZE.1624, ZE.1654, ZE.1670, ZE.1671, ZE.1626)

AE.1855 Additional 0.3x lens. WD 250 mm. Suitable with

ST.1720, ST.1770, ST.1780, ST.1785 and 65.980 stands

AE.1870 Additional 0.44x lens. WD 180 mm. Suitable with

ST.1715, ST.1720, ST.1770, ST.1780, ST.1785 and

65.980 stands

AE.1856 Additional 0.5x lens. WD 150 mm. Suitable with

ST.1740. Maximum object size is 15 mm

AE.1857 Additional 0.75x lens. WD 97 mm

AE.1858 Additional 1.5x lens. WD 50 mm

AE.1859 Additional 2.0x lens. WD 34 mm

ADDITIONAL LENSES

(for ZE.1629)

AE.1805 Additional 0.3x lens. WD 330 mm. Suitable

with ST.1720, ST.1770, ST.1780, ST.1785 and

65.980 stands

AE.1806 Additional 0.5x lens. WD 198 mm. Suitable with

ST.1715, ST.1720, ST.1770, ST.1780, ST.1785 and

65.980 stands

AE.1807 Additional 0.75x lens. WD 125 mm

AE.1808 Additional 1.5x lens. WD 62 mm

ADDITIONAL LENSES

(for ZE.1657)

 AE.1816
 Additional 0.35x lens. WD 250 mm

 AE.1817
 Additional 0.5x lens. WD 174 mm

 AE.1818
 Additional 1.5x lens. WD 57 mm

PROTECTION WINDOWS

(to be screwed under the objectives)

AE.1845 Protection window for all heads of ZE series

except ZE.1659

AE.1825 Protection window for ZE.1659.

Not suitable with additional lenses

DARKFIELD

AE.1878 Darkfield attachment for all stands with

transmitted illumination

AE.1879 Iris diaphragm suitable with AE.1878

AE.1871 Object table for AE.1878 with ST.1760 stand.

Suitable to observe contact lenses or gems

with an object slide

POLARIZATION

AE.1890 Analyzer, in rotatable mount.

Not suitable with ZE.1659

AE.1891 Polarizer in mount.

Suitable with ST.1740 and ST.1760

AE.1892 Retardation plate gypsum 1st order red.

Suitable with polarizer AE.1891

MECHANICAL STAGES

AE.1876 Plain stage 145 x 115 mm with 75 x 50 mm

X-Y mechanical stage on ball bearings.

Horizontal coaxial adjustment.

Double Vernier with 0.1 mm graduations.

Only with ST.1710, ST.1715 and ST.1740

AE.1896 Stage 145 x 115 mm with central glass object

plate and 75 x 50 mm X-Y mechanical stage on

 $ball\ bearings.\ Horizontal\ coaxial\ adjust ments.$

Double Vernier with 0.1 mm graduations.

Only with ST.1740 and ST.1760

AE.1877 Large stage 170 x 155 mm with 100 x 105 mm

X-Y mechanical stage on ball bearings.

For ST.1710, ST.1715 and ST.1740

AE.1950 Large 390 x 390 mm stage with 360 x 360 mm

X-Y mechanical stage.

Only for ST.1720, ST.1770, ST.1780 and ST.1785

OBJECT STAGES

AE.1884 Round object high-profile table with frosted

glass filter. Interchangeable with

darkfield ST.1760

AE.1885 Round object low-profile table with frosted glass

filter. Interchangeable with darkfield ST.1740

OBJECT PLATES - Ø 94 MM

AE.1881 Glass transparent object plate
AE.1882 Acrylic black/white object plate

FILTERS - Ø 40 MM

AE.1897 Frosted glass filter

AE.1898 Blue filter

OBJECT HOLDER

AE.5446 Orientable clamp for gems.

Interchangeable with object plate clamp

SPARE BULB AND FUSES

SL.1868 30 W 230 V incandescent bulb for ST.1750 stand **SL.1869** 10 W 6 V halogen bulb for ST.1740 illumination

AE.5252 Fuses for ST.1740 stand. Per 10 pieces

CAMERA ACCESSORIES

AE.5059 Projection 0.45x objective with C-mount for

cameras with 1/2" sensor. To be placed over a 23.2 mm ZE series photo tube. Optional

reticle available

cameras with 2/3" sensor. To be placed over a 23.2 mm ZE series photo tube.

Optional reticle available

DC.1320 Projection 1x objective with C-mount

DC.1324 Projection 0.5x objective with C-mount for cameras with 1/2" sensor.

To be inserted into a 23.2 mm tube

Projection 0.7x objective with C-mount for

DC.1326 Projection 0.33x objective with C-mount for cameras with 1/3" sensor.

To be inserted into a 23.2 mm tube

AE.5130 Universal SLR camera adapter with 2x projection

lens for 23.2 mm tubes. Needs T2 adapter

AE.5025 T2 adapter for Nikon D digital SLR cameras
AE.5040 T2 adapter for Canon EOS digital SLR cameras

Other T2 adapters on request

AE.5063







lightweight, ideal for lab or field work

HIGHLIGHTS

- Binocular models
- Easy to use
- 360° revolving rotatable head with 45° inclined tubes
- Secured WF 10x/20 mm eyepieces
- 10x/30x and 20x/40x magnification in revolving nosepiece
- Robust rack & pinion stand with powerful halogen or LED illumination
- LED illumination with rechargeable batteries for cordless use
- Incident and transmitted illuminations can be used simultaneously
- Lightweight; easy to carry to any location
- 5 Years warranty



P-10 (60.100)

SPECIFICATIONS

EYEPIECES

Secured pair wide field eyepieces WF 10x/20 m m. Supplied with eyecups

HEAD

Binocular head with 45° inclined tubes. One tube supplied with diopter adjustment. Interpupillary distance from 55 to 75 mm

OBJECTIVES

- The P-10 and P-10 LED models are supplied with revolving 1x/3x objectives for a total magnification of 10 and 30 times with fields of view from 20 mm to 6.7 mm
- The P-20 and P20-8 LED models are supplied with revolving 2x/4x objectives for a total magnification of 20 and 40 times with fields of view from 10 mm to 5 mm

By using 5x or 20x eyepieces, magnifications from 5 to 80x can be achieved

All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

STAND

Robust pillar stand with 35 mm coarse adjustment. Supplied with white/black object plate and two object clamps

ILLUMINATION

The P-10 and P-20 models are supplied with 10 W 12 V halogen transmitted and incident illumination and internal power supply. Both illuminators can be operated independently or simultaneously

The P-10 LED and P-20 LED models are supplied with high power LED transmitted and incident illumination. With three rechargeable batteries for a maximum of 35 hours continuous cordless operation. Both illuminators can be operated independently or simultaneously. Comes with external mains adapter

CAMERAS

Euromex offers a wide range of industrial and laboratory grade cameras, see chapter 6 (Digital Solutions). For P series, the camera replaces one of the eyepieces

PACKAGE CONTENT

Supplied with power cord, dust cover, a spare fuse and user manual (and spare bulb for halogen models). All packed in a polystyrene box

ACCESSORIES AND SPARE PARTS

EYEPIECES

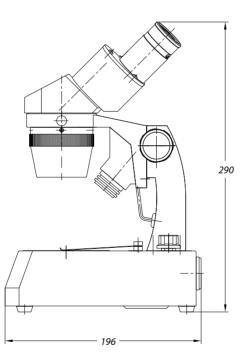
50.805	Pair of wide field eyepieces WF 5x/22 mm
50.810	Pair of wide field eyepieces WF 10x/20 mm
50.811	Micrometer eyepiece WF 10x/20 mm, 10 mm/100
50.815	Pair of wide field eyepieces WF 15x/16 mm
50.820	Pair of wide field eyepieces WF 20x/10 mm
50.840	Pair of eyecups

MISCELLANEOUS

50.871	Black/white stage plate 94 mm diameter
50.873	Glass stage plate 94 mm diameter
50.875	Adjustable GEM object clamp for P series
50.876	Darkfield attachment
50.882	Spare halogen bulb 12 V 10 W for P series
	(transmitted illumination)
50 961	Plastic case for P series

DISPOSABLES

AE.1112	Micrometer slide, 50 mm/50 divisions
PB.5245	Lens cleaning paper, 100 sheets per pack
PB.5274	Isopropyl alcohol 99% (200 ml)
PB.5275	Cleaning kit: lens cleaning fluid, lint free lens
	tissue, brush, air blower and cotton swabs



• 50.810	• 50.815	• 50.820

MODELS	45° head	1x/3x objective	2x/4x objective	Transmitted halogen illumination	Incident halogen illumination	Transmitted LED illumination	Incident LED illumination
P-10 60.100	•	•		•	•		
P-10 LED 60.110		•				•	•
P-20 60.200	•		•	•	•		
P-20 LED 60.210	•					•	•

about

microscope optics

RESOLVING POWER

A human eye cannot distinguish two points when these are closer than approximately 0.3 mm or 300 µm to each other. That is what is called "resolving power"; the capacity to resolve two points which are close together or "optical resolution", the ability of an imaging system to resolve detail

MAGNIFICATION

If one needs to detect details of 10 µm, one needs at least $300 \, \mu \text{m} / 10 \, \mu \text{m} = 30 \text{x}$ magnification in order to resolve this detail. Knowing that conventional stereo microscopes can magnify - without the help of additional lenses and without introducing additional optical aberrations – up to approximately max. 100 times, the smallest detail that a stereo microscope can resolve is 300 μ m / 100 = 3 μ m

For details smaller than approximately 3 µm, one could better choose an optical compound microscope to resolve these details

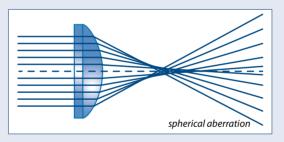
TECHNICAL

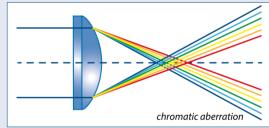
FACTS

OPTICAL RESOLUTION

The resolution of an optical microscope can be defined as the shortest distance between two points that the microscope can reveal for a human eye or camera

The theoretical maximum resolution is limited by the diffraction laws of physics and is equal to $r = 1.22 \lambda / (N.A. of objective + N.A. condenser)$ with r = resolution, N.A. = numerical aperture, $\lambda = imaging wavelength$





ABERRATIONS

In practice, the resolution of a microscope is lower than the theoretical resolution due to optical aberrations, improper illumination or bad alignment of the optics and components of the microscope. Despite corrections for chromatic and spherical aberrations, coma, astigmatism and distortion, the real maximum resolution of a microscope with a 100x objective is about 0.25 µm for 550 nm light rays

Chromatic aberration	$Difference\ in\ focus\ of\ different\ colors\ caused\ by\ difference\ in\ refractive\ indices\ for\ each\ wavelength$
Spherical aberration	Difference in focus caused by defects or irregularities on the surface of a lens
Astigmatism	Rays traveling through two perpendicular planes having different focal planes
Coma aberration	Variation in magnification over the entrance pupil
Distortion	Stretching of an image as a variation in magnification across the lens field



life science

digital solutions





Get ready to discover the digital world of microscopy with the newest Euromex digital laboratory products. The broad Euromex product range of digital cameras and digital microscopes with built-in camera offers the best suitable solutions for your specific application needs

> Euromex digital laboratory products incorporate all the latest available technology in this field such as WiFi, HDMI and sCMOS sensors, specially designed for fluorescent microscopy. Our digital solutions package includes the powerful ImageFocus software for image analysis



DIGITAL MICROSCOPES • PAGE 236

MACROZOOMS • PAGE 240

WIFI CAMERA • PAGE 244

USB CAMERAS • PAGE 245

HD CAMERAS • PAGE 248

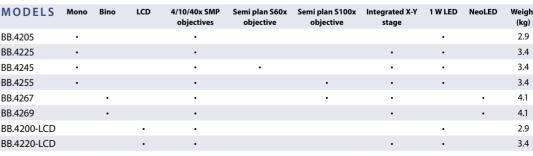
COOLED CAMERAS • PAGE 252

TABLET CAMERA • PAGE 254

SOFTWARE • PAGE 256

ADAPTERS • PAGE 258

Biological microscopes





- Monocular and binocular models
- Models with a 7" LCD screen
- Reserved quadruple nosepiece for semi plan objectives
- Built-in digital 5.0 MP USB-2.0 camera
- Integrated mechanical stage
- LED and NeoLED™ illumination
- **Cordless operation**
- 10 Years warranty (2 years on camera)

SPECIFICATIONS

CAMERA

All the BioBlue digital microscopes are equipped with a 5.0 MP 1/2.8" CMOS USB-2.0 camera, a maximum of resolution 2560 x 1920, 24 bits color depth, up to 30 frames per second. Supplied with ImageFocus Plus software, USB-2.0 cable and a micrometer 1mm/100 slide

SOFTWARE

save images in .jpg, .tif, .bmp or .dicom formats as well as .avi format videos. Measurements and annotations can be done on live or captured images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations. A Mac OS version is also available. Free updates can be downloaded from our website

the features of the regular BioBlue. This screen allows live

The capture and analysis ImageFocus Plus software allows to

MODELS WITH LCD SCREEN

The BioBlue is also available with a 7" LCD screen, with all

● BB.4220-LCD

viewing, saving images and videos directly to a micro SD card and even has a basic line measurement function included. The

Screen resolution 1920 x 1080 @ 30 fps, image resolution upto

 1844×1080 in JPG and video resolution 1280×720 AVI format

For full microscope specifications and accessories see chapter 1:

HD LCD screen can only be operated as a stand alone





MODELS	Mono	Bino	LCD	4/10/40x SMP objectives	Semi plan S60x objective	Semi plan S100x objective	Integrated X-Y stage	1 W LED	NeoLED	Weigh (kg)
B.4205	•			•				•		2.9
BB.4225	•			•			•	•		3.4
B.4245	•			•	•		•	•		3.4
B.4255	•			•		•	•	•		3.4
B.4267		•		•		•	•		•	4.1
B.4269		•		•			•		•	4.1
B.4200-LCD			•	•				•		2.9
3B.4220-LCD			•	•			•	•		3.4

BioBlue

with built-in

digital microscopes

5 MP USB-2.0 camera

The DIN WF 10x/18 eyepieces and the semi plan

models generate a crisp high-resolution image

stage with double layered 70 x 28 mm

mechanical X-Y stage enable precise and

The 120 x 120 mm plain stage and 130 x 130 mm

stable positioning of the specimen. With Abbe

condenser, NeoLED™ or LED illumination and

with built-in rechargeable batteries for corded

achromatic corrected 45 mm DIN objectives of the BioBlue

DIGITAL MICROSCOPES



BB.4267 / BB.4269















BlueLine

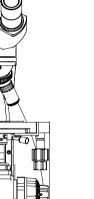
NeoLED



● BB.4225



and cordless use





digital microscopes with built-in 5.0 MP USB-2.0 camera

The versatile and evolutive bScope® microscopes are well-equipped and intensively used in universities, small to mid-sized laboratories and for veterinary applications

The bScope® comes with WF 10x/20 mm eyepieces and is available in binocular models. Complete with E-plan IOS and Plan IOS infinity corrected objectives for brightfield observations. Also EPLPHi IOS and PLPHi IOS infinity corrected objectives for phase contrast observations

























409 (h) x 195 (w) x 235 (d) | 7.1 kg

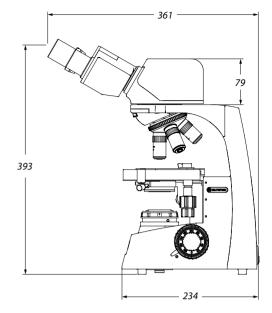
oscope

BS. 1157-PLi

BS.1157-PLi

HIGHLIGHTS

- Binocular model
- Integrated 5.0 MP CMOS color USB.2 camera
- 2592 x 1944 pixels
- 7 frames per second (2592 x 1944 pixels)
- 27 frames per second (1280 x 960 pixels)
- 10 Years warranty (2 years on camera)



SPECIFICATIONS

CAMERA

The digital bScope microscopes are equipped with a 5.0 MP 1/2.5 inch CMOS USB-2.0 camera, 24 bits color depth, 7 frames per second (2592 x 1944 pixels) or 27 frames per second (1280 x 960 pixels). Dynamic range is 76 db and signal/noise ratio 41 db. Supplied with ImageFocus Alpha software, USB-2.0 cable and a micrometer 1mm/100 calibration slide

SOFTWARE

The capture and analysis ImageFocus Alpha software allows to save images in .jpg, .tif, .bmp or .dicom formats as well as .avi format videos. Measurements and annotations can be done on live or captured images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations. A Mac OS version is also available. Free updates can be downloaded from our website. For full microscope specifications and accessories see chapter 4: Biological microscopes

MODELS	Binocular head	HWF 10x/20 mm eyepieces	Quintuple nosepiece E-plan IOS 4/10/S40/S100x	Quintuple nosepiece plan IOS 4/10/S40/S100x	Quintuple nosepiece E-plan phase IOS 10/20/ S40/S100x	Quintuple nosepiece plan phase IOS 10/20/540/5100x	Köhler NeoLED™
BS.1157-EPLi		•	•				•
BS.1157-PLi	•	•		•			•
BS.1157-EPLPHi			•		•		•
RS 1157-PI PHi				•			



MZ.5000

445/635 (h) x 320 (w) x 260 mm (d) | 4.6 kg

can deliver up to 60 images per second and is

screen or an external stand-alone HD screen

connected either to the supplied and attached 11.6"

HIGHLIGHTS

- MonoZoom stand-alone digital microscope
- Zoom from 0.7x up to 5x
- 105 mm working distance
- 170 mm working distance with 0.5x lens
- **Built-in incident LED ring light**
- Built-in 1080p 2 MP HD camera
- HD 11.6 inch screen, -5° to 15°
- Built-in mouse driven on-screen software
- Conveniently build-in capture button
- Removable 32 GB memory stick
- Metal stand
- 3 years warranty



Adjustable screen

SPECIFICATIONS

CENTRAL ZOOM OBJECTIVE

The Digital MacroZoom MZ.5000 features a single zoom objective with a 0.7 to 5x zoom magnification. Zoom adjustment engravings on 1, 1.5, 2, 3, 4 and 5x. The working distance is 105 mm. Supplied with a 0.5x additional lens with a working distance of 170 mm

STAND

The Central Zoom Objective with attached screen and LED ring light is mounted on a rack and pinion system that sits on a large 320 x 260 mm metal stand. Travel range is 225 mm

ILLUMINATION

A supplied 5,500 K LED ring light with 56 LED's can be mounted under the microscope body. The intensity is adjustable

BUILT-IN CAMERA

Built-in HD 1080p high definition 2 MP CMOS high speed camera, 1920 x 1080 pixels, 60 fps with attached 11.6" screen. The standard field of view is 29.8 to 4.18 and with the 0.5x additional lens from 59 to 8.35. The camera has one HDMI output that can be connected either to the attached screen or to an external HD screen

Two other USB ports accept the supplied 32 GB USB memory stick (up to 128 GB) and a supplied wireless mouse that drives the built-in on-screen software. The operator can also take and save images to the SD card by pressing on a capture button at the right side of microscope body

BUILT-IN SOFTWARE

The built-in on-screen software is mouse driven and features functions such as Capture image, Freeze image, Automatic white balance, Automatic exposition, File manager, Grids and camera settings such as exposure time, gain, saturation, contrast, sharpness, HDR



MZ.5000









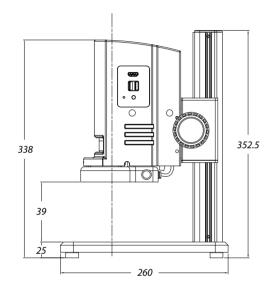


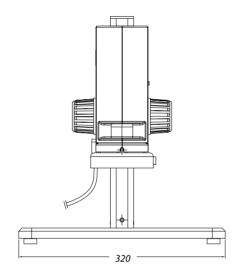
such as line, area, angle. Images are saved in .jpg format and videos are saved in .avi format. With the digital zoom function, objects can be observed with a magnification up to 70 times

Measurement functions are also available from the software

PACKAGE CONTENT

Supplied with 32 GB memory stick, mouse, short HDMI cable for attached screen, external 100-240 Vac / 12Vdc / 3 A power supply





how to match

camera resolution

In microscopy, the image of the sample under observation is projected by the optical components of the microscope (objective lenses, eyepiece lenses, intermediate lens or camera relay lenses) onto the surface of a camera sensor or the retina of a human eye

Not the total amount of pixels - which basically determines the field of view of the camera image - is primordial but

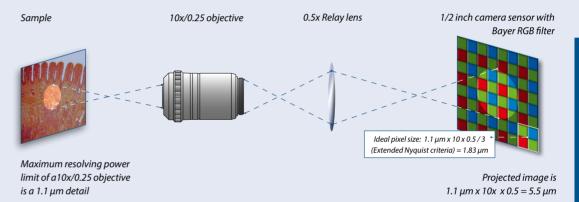
a more important specification is the pixel size of the camera sensor. What might be astonishing to know about digital resolution of camera's is the fact, that the higher the magnification, the fewer pixels the chip of a camera needs!

TECHNICAL

FACTS

To optimize the transfer of the details of the sample (resolving power) to the camer]] a, the pixel size of the photodiodes of the camera sensor is a key element

EXAMPLE OF A 10X/0.25 OBJECTIVE WITH 1/2 INCH CAMERA SYSTEM



MAXIMUM AND OPTIMUM PIXEL SIZE REQUIREMENTS:

Obj. Magn.	NA	Resolving power ⁽¹⁾ (µm)	Projected size (μm)	Projected size with 0.5x lens (μm)	Maximum (2) camera pixel size (µm)	Optimum (2)(3) camera pixel size (µm)
1x	(0.04)	6.90	6.90	3.45	1.72	1.15
2x	(0.06)	4.60	9.20	4.60	2.30	1.53
4x	(0.10)	2.80	11.2	5.60	2.80	1.86
10x	(0.25)	1.10	11.0	5.50	2.75	1.83
20x	(0.40)	0.69	13.8	6.90	3.45	2.30
40x	(0.65)	0.42	16.8	8.40	4.20	2.80
60x	(0.80)	0.34	20.4	10.2	5.10	2.40
100x	(1.25)	0.22	22.0	11.0	5.50	3.67

- (1) Resolving power of the objectives: $r = 1.22 \cdot \lambda / (NA \ Objective + NA \ Condenser)$. With NA = numerical aperture, $\lambda = wavelength$ and r = optical resolving power. The resolving power limits are based on various theoretical calculations. Low specimen contrast, improper or low illumination conditions, etc, may serve to lower resolving power limits, more often than not, the real-maximum values are not realized in practice
- (2) The Nyquist criterion states that the maximum camera pixel size can't exceed half of the resolving limit of the objective. For high resolution images, the Nyquist criterion is even extended to 2.5 to 3 pixels per detail and thus the optimum camera pixel size (3) is calculated as maximum 1/3 of the resolving limit of the objective
- (3) Although smaller pixel size of photodiodes of the camera sensor improve the resolution, smaller pixel sizes lower signal to noise ratios, lower the dynamic range and collect less light! Binning techniques can compensate for lower signal to noise ratios



The CMEX-5 WiFi-2 camera is equipped with a 5.0 MP

CMOS sensor with 12 bits grayscale conversion and a

24 bits color rendering

The CMEX camera streams H.264 encoded high resolution images simultaneously to several WiFi enabled smartphones, tablets or computers with iOS, Android or Windows operating systems

Power supply through USB charger or computer USB port. Standard C-mount mounting

Adding a WiFi camera to your microscope is ideal for wireless sharing/viewing of microscope images. Ideal for demonstrations where remote viewing is needed

Android app for this camera is supplied on cd-rom and www.euromex.com. IOS app can be downloaded from the App store (free of charge). ImageFocus Alpha software can be used by means of WiFi on PC's and Macs

The camera is powered by the included USB charger or a computers USB port. Standard 0.37x C-mount objective is included

MODEL	Sensor	Sensor size (inches)	Pixels size (µm)	Resolutions	Grayscale conversion	Color rendering			Sensitivity V/lux-sec	Product number
CMEX-5 WiFi-2	CMOS	1/2.5"	2.2 x 2.2	1280 x 720	12 bits	24 bits	60	66.5	0.53	DC.5000-WiFi-2

The CMEX-5 WiFi-2 camera is supplied in a box with USB-2.0 cable, 30.0 and 30.5 mm adapters to use with stereo microscopes, and a 0.37x C-mount objective



CMEX USB-2.0 cameras

with fast CMOS sensor

The CMEX-2f, CMEX-5f and CMEX-12f are equipped with a fast CMOS sensor. The CMEX cameras are equipped with USB-2.0 data interface and supplied with ImageFocus Plus software

Besides capturing images and videos, the software allows measurements on still and live images and annotations on captured images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations. A Mac OS version is also available. Free updates can be downloaded from our website

MODELS	Number of pixels (MP)	Sensor	Pixels size (μm)	Resolutions	Max. frames (p/sec)	Grayscale conversion	Color rendering	Dynamic (db)	Sensitivity V/lux- sec (at 550 nm)	Product number
CMEX-2f	2.0	1/2.9" CMOS	2.8 x 2.8	1920 x 1080	30	8 bits	24 bits	72	0.51	DC.2000f
CMEX-5f	5.0	1/2.8" CMOS	2.0 x 2.0	2560 x 1920 1600 x 1200	30 50	8 bits	24 bits	72	2.0	DC.5000f
CMEX-12f	12.0	1/2.3" CMOS	1.33 x 1.33	4000 x 3000 2592 x 1944	15 30	8 bits	24 bits	60	1.5	DC.12000f

The CMEX cameras are supplied with USB-2.0 cable, 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscopes, 1 mm/100 (10 µm/division) calibration slide. The cameras are supplied with a 0.45x C-mount objective



with CMOS sensor

USB CAMERAS

The CMEX-3 Pro. -5 Pro. -10 Pro and -18 Pro cameras are equipped with a 3.1, 5.1, 10 or 18 MP CMOS sensor with 12 bits grayscale conversion and a 24 bits color rendering. These cameras are equipped with a USB-3.0 data interface enabling fast frame rate and are supplied with ImageFocus Alpha software

Advanced CMEX USB-3.0 cameras

Besides capturing images and videos, the software allows measurements on still and live images and annotations on captured images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations. A 2 GB RAM 2.8 GHz computer and 17 inch display is recommended. A Mac OS version is available. Free updates can be downloaded from our website

ADVANCED

CAMERAS FOR

LIFE SCIENCE

FEATURED

CMEX-18 Pro

MODELS	Sensor	Sensor size (inch)	Pixels size (μm)	Exposure time	Resolutions	Max. frames (p/sec)	Signal/ Noise (db)	Dynamic (db)	Sensitivity V/lux-sec	Product number
CMEX-3 Pro	CMOS	1/3″	2.2 x 2.2	1 ms ~ 2000 ms	2048 x 1534 1024 x 770	28 53	39	100	1.9	DC.3000-PRO
CMEX-5 Pro	CMOS	1/2.5″	2.2 x 2.2	1 ms ~ 2000 ms	2560 x 1922 1270 x 960 640 x 480	14 39 100	39	68.	1.76	DC.5000-PRO
CMEX-10 Pro	CMOS	1/2.3"	1.67 x 1.67	1 ms ~ 2000 ms	3584 x 2746 1792 x 1372	8 25	35.5	63.5	0.31	DC. 10000-PRO
CMEX-18 Pro	CMOS	1/2.3″	1.25 x 1.25	1 ms ~ 2000 ms	4912 x 3684 2456 x 1842 1228 x 922	6 18 32	42	65	1.3	DC. 18000-PRO

The CMEX-3 Pro, -5 Pro, -10 Pro and -18 Pro cameras are supplied with USB-3.0 cable, 30.0 and 30.5 mm adapters to use with stereo microscopes, 1 mm/100 (10 µm/division) calibration slide. The CMEX-5 Pro, -10 Pro and -18 Pro are supplied with a 0.5x C-mount objective. The CMEX-3 Pro is supplied with a 0.37x C-mount objective

with scientific grade sCMOS sensor

The sCMEX-3, sCMEX-6 and sCMEX-20 cameras are equipped with a scientific grade back illuminated Sony sCMOS sensor with 16 bits grayscale conversion and an outstanding 36 bits color rendering. Suitable for brightfield, darkfield and fluorescence. The sCMEX cameras are equipped with a USB-3.0 data interface and supplied with ImageFocus Alpha software

Besides capturing images and videos, the software allows measurements on still and live images and annotations on captured images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations. Also compatible with Mac OS. PC requirements: Intel Core2 2.8 GHz or higher or equivalent, 2 GB memory, USB-3.0 port, 17 inch display. Free updates can be downloaded from our website

MODELS	Number of pixels (MP)	Sensor	Sensor size (inches)	Pixels size (μm)	Exposure time	Resolutions	Max. frames (p/sec)	Color rendering	Dynamic range (db)	S/N Ratio S (db)	Sensitivity V/ lux-sec	Product number
sCMEX-3	3.1	sCMOS	1/2.8"	2.5 x 2.5	0.244 ~ 15000 ms	2048 x 1536 1920 x 1080	50 58	36 bits			0.15	DC.3000s
sCMEX-6	6.3	sCMOS	1/1.8"	2.5 x 2.5	0.244 ~ 15000 ms	3072 x 2048 1536 x 1024	30 38	36 bits	66.8	44.51	0.15	DC.6000s
sCMEX-20	20	sCMOS	1"	2.4 x 2.4	0.264 ~ 15000 ms	5440 x 3648 2736 x 1824 1824 x 1246	15 50 60	36 bits	66.3	44.74	0.21 0.21 0.21	DC.20000s

The sCMEX cameras are supplied in a carton box with USB-2.0 cable, 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscopes, 1 mm/100 (10 μ m/division) calibration slide. The DC.3000s and DC.6000s are supplied with a 0.5x objective and the DC.20000s is supplied with a 1.0x adapter

HD AND HD-AUTOFOCUS CAMERAS



High definition HD1080p

and 720p CMOS color cameras with HDMI and USB-2.0/3.0 interfaces

The Euromex UHD-4K, HD-Ultra, HD-Lite, HD-Mini and HD-Autofocus cameras offer the perfect solution to modern microscopy where real-time images are needed. These HD image quality cameras can be used with biological, metallurgical or stereo microscopes

The cameras are equipped with high sensitive sensors for low and intense light conditions and are also suitable for coaxial illumination and machine vision applications. The real-time images generated with this camera provide excellent color rendering with frame speeds up to 60 fps

STAND-ALONE MODE

To use these cameras you do not need a computer or have any computer knowledge. Most camera settings are done automatically and therefore these cameras are very user-friendly This results in faster, more flexible and compact working conditions. Simply connect the camera to a high definition dedicated 11.6" HD screen, TV-HD or HD-beamer with a HDMI

input and the system is ready to go. The UHD-4K camera can also be connected to a GbE ethernet and DHCP enabled network router and has also a WiFi interface. The mouse driven built-in software of the camera enables captured images and recorded videos* to be saved on the integrated SD memory card

HIGH DEFINITION

CAMERAS FOR

With the UHD-4K, HD-Ultra, HD-Lite and HD-Autofocus cameras, the captured images or recorded video's* can be very easily reviewed or replayed on the HD screen. The UHD-4K and HD-Ultra even offer a full range of measuring functions on live and captured images. The HD-Autofocus offers measuring functions on live image only * video function only available with UHD-4K (.mp4), HD-Ultra (.avi) and HD-Lite (.avi)cameras

COMPUTER CONTROLLED MODE

Users who want more camera controls and more functions can also connect the camera to a computer and benefit from the extensive functions of the Euromex ImageFocus software. It runs

HIGHLIGHTS

- UHD 2160p, HD 1080p or 720p high definition color cameras
- Real-time images directly on TV, monitor or beamer
- Stand-alone or computer controlled mode
- Built-in mouse-driven software and SD memory card
- C-mount interface
- HDMI, USB-2.0/3.0, GbE and WiFi interface(s)
- Autofocus model available
- Compatible with ImageFocus software

on Windows 7, 8 and 10, both 32 and 64 bits. Euromex supplies free software updates on www.euromex.com. Besides extended camera settings, the software can save images in JPG, TIFF or BMP formats and record videos in .avi format on the hard disk of the computer. The software offers different measurement functions on live and captured images and also full control over the camera parameters. Specific functions for fluorescence - such



● VC.3036-HDS on stereo microscope

as histogram adjustments and combining captured fluorescence images - are also available with the ImageFocus software

PACKAGE CONTENT

MODELS	UHD-4K	HD-Ultra	HD-Lite	HD-Mini	HD-Mini +HDS	HD-Autofocus	HD-Pro
Software	ImageFocus Alpha	ImageFocus Plus	ImageFocus Plus				ImageFocus Alpha
Software languages	15 ⁽²⁾	13 (1)	13 (1)			15 ⁽²⁾	15 ⁽²⁾
Compatible	Win 7, 8 and 10 Mac OS	Win 7, 8 and 10 Mac OS	Win 7, 8 and 10 Mac OS				Win 7, 8 and 10
C-mount with objective	0.5x	0.37x	0.45x	0.5x	0.5x	0.5x	0.37x
Interface(s)	•	•	•	Only HDMI	Only HDMI	•	•
30 and 30.5 mm adapters	•	•	•	•	•	•	•
SD card	16 GB	16 GB	8 GB	4 GB	4 GB	16 GB	16 GB
Cailbration slide 10mm/100	•	•	•	•	•	•	•
External power supply	12V 1A	12V 2A	12V 2A	12V 1A	12V 1A	12V 1A	12V 1A
Dimensions (w x d x h)	78 x 65 x 98	80 x 70 x 90	80 x 70 x 90	51ø x 60	50 x 50 x 60	81 x 65 x 78	81 x 65 x 78
Weight (grams)	555	440	280	50	130	500	500
Product number	VC.3040	VC.3036	VC.3031	VC.3023		VC.3034	VC.3038
With 11.6" HD screen	VC.3040-HDS	VC.3036-HDS	VC.3031-HDS		VC.3024-HDS	VC.3034-HDS	VC.3038-HDS

⁽¹⁾ English, Chinese Simplified, Traditional Chinese, Thai, German, Italian, French, Korean, Japanese, Russian, Polish and Portugese

⁽²⁾ English, Catalan, Indonesian, Polish, Chinese Simplified, Traditional Chinese, Thai, German, Italian, French, Korean, Japanese, Russian, Turkish, Spanish

ALL HD-CAMERAS

UHD-4K

Sony 4K

1/1.8",

HDTV 2160p

3840 x 2160 (1

HDMI 60 fps

USB 30 fps

2.0 x 2.0 (µm)

2160p

HDMI, USB-3.0(5),

GbE ethernet,

WiFi(5)

Progressive

Automatic/

manual

Automatic/

manual/ROI

16 GB

SD card

(max, 32 GB)

on/off

C-mount

100-240 Vac

to 12Vdc/1A

10-60 %

-10 – 50° C

-20 to 60° C

VC.3040

VC.3040-HDS (4)

HD-Ultra

Sony

1/2.8",

HDTV 1080p

3264 x 1836 (1

1920 x 1080 (2)

HDMI 60 fps

USB 30 fps

2.8 x 2.8 (µm)

1080p

HDMI.

USB-2.0

Progressive

Automatic/

manual

Automatic/

manual

16 GB

SD card

(max. 32 GB)

on/off

C-mount

100-240 Vac

to 12Vdc/2A

45-85 %

 $0 - 60^{\circ}$ C

-20 to 70° C

VC.3036

VC.3036-HDS (4)

HD-Lite

Aptina

1/2.5",

HDTV 1080p

2592 x 1944 (1)

1920 x 1080 (2)

HDMI 15 fps,

USB 15fps

2.2 x 2.2 (µm)

1080p

HDMI,

USB-2.0

Progressive

Automatic/

manual

Automatic/

manual

8 GB

SD card

(max. 32 GB)

on/off

C-mount

100-240 Vac

to 12Vdc/2A

45-85 %

0 – 60° C

-20 to 70° C

VC.3031

VC.3031-HDS (4

HD-Mini

Sony

1/2.8",

HDTV 1080p

1920 x 1080 (1)

1920 x 1080 (2)

HDMI 60 fps

2.9 x 2.9 (µm)

1080p

HDMI

Progressive

Automatic/

manual

Automatic/

manual

4 GB

SD card

(max.8 GB)

C-mount

100-240 Vac

to 12Vdc/1A

30-80 %

-10 – 50° C

-20 to 60° C

VC.3023

HD-Mini + HDS

Sony

1/2.8",

HDTV 1080p

1920 x 1080 (1

1920 x 1080 (2)

HDMI 60 fps

2.9 x 2.9 (µm)

q080t

HDMI

Progressive

Automatic/

manual

Automatic/

manual

4 GB

SD card

(max.8 GB)

C-mount

100-240 Vac

to 12Vdc/1A

30-80%

-10 – 50° C

-20 to 60° C

VC.3024-HDS (4)

HD-Autofocus

Sony

1/1.9",

HDTV 1080p

1920 x 1080

HDMI 60 fps

3.75 x 3.75 (µm)

1080p

HDMI,

USB-C (3)

Progressive

Automatic/

manual

Automatic/

manual

16 GB

SD card

(max. 32 GB)

on/off

C-mount

100-240 Vac

to 12Vdc/2A

45-85%

–10-40° C

-20°C to 60° C

VC.3034

VC.3034-HDS (4)

HD-Pro HDMI

Sony

1/2.8",

HDTV 1080p

1920 x 1080 (1)

1920 x 1080 (2)

HDMI 60 fps,

USB 26 fps

2.9 x 2.9 (um)

q080t

HDMI,

USB-2.0

Progressive

Automatic/

manual

Automatic/

manual/ROI

16 GB

SD card

(max, 32 GB)

on/off

C-mount

100-240 Vac

to 12Vdc/2A

30~80%

-10~ 50° C

-20°C to 60° C

VC.3038

VC.3038-HDS (4)

MODELS

Sensor

Format

Pixels

Pixel size

recording

Video output

Scan mode

Exposure

Storage

Camera buttons

External power supply

Mounting

Relative

humidity Temperature

Operation

Storage

Product

number

White balance

Video

LIFE SCIENCE DIGITAL SOLUTIONS

Sensitivity 1300 mV 1.12 V (1/30s) 1.3 V (1/30s) 505 mV 510 mV 1 V 1300 mV lux-sec Color rendering 36 36 24 12 12 24 24 (bits) Signal/Noise 55 42 50 44 40.5 42 38 Dynamic (db) 69 60 69 69 65 66

(1) capture mode (2) live view (3) USB-2.0 compatible (4) model with attached high definition screen (5) available from November 2019

BUILT-IN SOFTWARE FEATURES (HDMI MODE)

MODELS	UHD-4K	HD-Ultra	HD-Lite	HD-Mini	HD-Mini + HDS	HD-Autofocus	HD-Pro HDM
Image capturing (JPEG)	3840 x 2160	3261 x 1840	2592 x 1944	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Video recording	3840 x 2160 MP4	1920 x 1080 AVI	1920 x 1080 AVI	1920 x 1080 MP4	1920 x 1080 MP4	1920 x 1080 ASF	1920 x 1080 ASF
Browse saved images	•	•	•	•	•	•	•
Browse saved video's	•	•	•	•	•	no	•
SD card storage	16 GB	16 GB	8 GB	4 GB	4 GB	16 GB	16 GB
Mouse driven	•	•	•	•	•	•	•
Auto exposure	•	•	•	•	•	•	•
Exposure time	0.04 ~ 1000 ms	0.001s ~ 10 s	0.001s ~ 10 s	0.01 ~ 1000 ms	0.01 ~ 1000 ms	0.06 ~ 918 ms	0.036 ~ 8000 ms
Gain	•	•	•	•	•	•	•
RGB & white balance	•	•	•	•	•	•	•
Gamma	•	•	•	•	•	•	•
Sharpness	•	•	•	•	•	•	•
Noise reduction	3D algorithm	3D algorithm	3D algorithm	3D algorithm	3D algorithm	Standard	Standard
Saturation & contrast	•	•	•	•	•	•	•
Horiz. & vert. flip	•	•	•	•	•	•	•
Grids	cross/multi	cross/multi	multi	multi	multi	multi	User defined
Autofocus						•	
Compare function	•	•	•			•	•
Measurement functions	captured & live images	captured & live images		captured & live images	captured & live images	live image only	captured & live images
Calibration table	•	•				•	•
Line & free curve	•	•				•	•
Polygon & rectangle	•	•				•	•
Angle	•	•				•	•
Circle 3 points	•	•				•	•
Circle radius	•	•				•	•
Export function	CSV	CSV, Txt				CSV	CSV
Languages	10 (4)	9 (3)	9 (3)	10 (4)	10 (4)	10 (4)	10 (4)
Product number	VC.3040 VC.3040-HDS	VC.3036 VC.3036-HDS	VC.3031 VC.3031-HDS	VC.3023	 VC.3024-HDS	VC.3034 VC.3034-HDS	VC.3038 VC.3038-HDS

HDMI mode

⁽³⁾ English, Chinese Simplified, Traditional Chinese, German, Italian, French, Korean, Japanese, Spanish

⁽⁴⁾ English, Chinese Simplified, Traditional Chinese, Thai, German, Italian, French, Korean, Japanese, Russian



Cooled color camera

with CCD or CMOS sensor

DC.20000i and DC.6000i

The Euromex 6 and 20 Megapixel Peltier cooled cameras are equipped with Peltier cooling elements that allow the camera to be used for fluorescence and other low light applications. These advanced and premium models are supplied with a USB-3.0 interface

All cameras are supplied with ImageFocus Alpha software. The software has specific functions for fluorescence like combining capture fluorescence images. Furthermore it allows capturing of images and videos, doing measurements and annotations, generating reports, live image stitching etc. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations. A Mac OS version is also supplied (with a few differences in features)

MODELS	Number of pixels (MP)	Sensor	Pixel size (μm)	Resolutions	Max. frames (p/sec)	USB-3	Dynamic range (db)	S/N Ratio	Sensitivity @ 1/30 sec	Peltier cooling
DC.6000i	6	1" CCD	4.54 x 4.54	2748 x 2200 2748 x 1092	7.5 14	٠	62.34	41.6	880 mV	•
DC.20000i	20	1" CMOS	2.4 x 2.4	5440 x 3648 4096 x 2160 2736 x 1824 1824 x 1216	5 10 15 30	٠	66.3	41.74	462 mV	٠

about

field of view

Field of view (FOV) is the visible area when looking through the microscope eyepiece (eyepiece FOV) or camera (camera FOV) and is usually expressed as a diameter

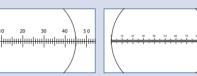
CALCULATING FOV OF AN EYEPIECE

The FOV through an eyepiece is equal to:

Field Number **Object Magnification**

Field number (FN) is usually engraved on the eyepiece as a figure next to the magnification and expressed in mm, e.g. WF 10x/18. A 10x/18 eyepiece with a 40x objective will have a FOV = 18 mm / 40 = 0.45 mm or 450 nm

450 nm FOV with 10x/18 eyepiece and S40x objective



Micrometer stage 1 mm/100

Micrometer stage 1 mm/100

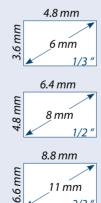
900 nm FOV with 10x/18

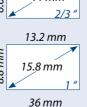
eyepiece and S20x objective

FIELD OF VIEW WITH CAMERA

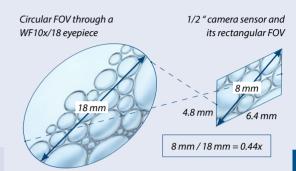
Most commercially available microscope digital cameras use 1/3, 1/2- or 2/3-inch rectangular sensors. A few will use a 1 inch camera sensor

As a consequence, a rectangular camera sensor cannot capture the circular FOV that exits from a eyepiece, microscope third tube or photo port





EYEPIECE VERSUS CAMERA FOV



TECHNICAL

FACTS

Furthermore, the circular eyepiece FOV is much larger than the camera FOV and thus the microscope FOV must be "reduced" with a so-called "relay" lens or "photo-adapter" to fit the camera FOV. However - in order to avoid vignetting (dark shadows in the corners of an image), the circular microscope FOV must just be projected outside the image sensor area. Subsequently the camera FOV will always be smaller than the microscope FOV by 50 to 60%

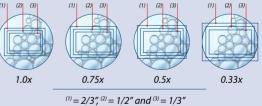


Figure: different camera sensor sizes (2/3, 1/2, 1/3 inch) with different "demagnifying" lenses (C-mount photo-adapters) 0.33x, 0.50x, 0,75x and 1.0x

IN ORDER TO OBTAIN THE DESIRED FIELD OF VIEW WITHOUT VIGNETTING USE:

- a 0.33 x photo adapter for cameras with a 1/3" sensor
- a 0.50 x photo adapter for cameras with a 1/2" sensor
- a 0.75 photo adapters for cameras with a 2/3" sensor
- a 1.0x or 1.2x photo adapters for cameras with a 1" or larger camera sensor



HIGHLIGHTS

- 10.1" Tablet with microscope camera
- 1280 x 800 pixels HD touch screen
- Windows 10 Home
- ImageFocus Plus software for PC
- ImageFocus Alpha for WiFi enabled PC and Android devices
- Tablet can be fully detached from camera
- Including keyboard
- The snap-on keyboard uses a magnetic docking system



SPECIFICATIONS

Processor	Quad Core 1.92 GHz with HD graphics processor
Screen	10.1 inch, 1280 x 800 (WGXA) touchscreen, 16:10, LED backlight
Memory	2 GB DDR RAM, 2 MB cache
Storage	32 GB Flash HDD, micro SD/SDHC up to 64 GB
Webcam	2 MP, 1600 x 1200 pixels front and rear cameras
Connectivity	Micro USB 2.0, WiFi 802.11 b/g/n and Bluetooth 4.0
Audio	Stereo with 3.5 mm audio jack, internal microphone and speaker
Battery	Lithium
Housing	246.9 x 174.2 x 9.4 mm (tablet), 246.9 x 174.2 x 8.2 mm (keyboard)
Weight	588 grams (tablet), 551 grams (keyboard)
System	Windows 10 Home
Supplied with	Keyboard-docking station

Specifications can be changed by Euromex microscopen by without prior notice

MODELS	Camera (MP)	Sensor size	Resolution	Pixels size (μm)	ADC	Color rendering	Dynamic (db)	Sensitivity V/lux-sec	Interface	Product number
ProPad-2	2.1	1/2.9"	1920 x 1080	2.8 x 2.8	12 bits	24 bits		0.51	₩ 2.0	PP.2000f
ProPad-5	5.1	1/2.8"	2592 x 1920	2.0 x 2.0	12 bits	24 bits	72 db	2.0	₩ 2.0	PP.5000f
ProPad-12	12.0	1/2.3"	4072 x 3176	1.33 x 1.33	8 bits	24 bits	60 db		₩ 2.0	PP.12000f
ProPad-WiFi	5.0	1/2.5"	1280 x 720	2.2 x 2.2	12 bits	24 bits	61 db	1.0	#	PP.5000-WiFi

All ProPad models are supplied with a C-mount objective that fits the standard 23.2 mm trinocular tubes. The PP.2000f, PP.5000f and PP.12000f are supplied with ImageFocus Plus software. The PP.5000-WiFi is supplied with ImageFocus Alpha. Only suitable for straight photo tubes

SOFTWARE

The software is compatible with all cameras mentioned in table below. Besides live imaging the software captures images in various formats and video in .avi format

IMAGE FOCUS 4	
DC.1300c	

IMAGE FOCUS PLUS							
DC.2000f	VC.3036						
DC.5000f	VC.3031						
DC.12000f							

IMAGE FOCUS ALPHA								
DC.3000-Pro	DC.5000-WiFi							
DC.5000-Pro	DC.3000s							
DC.10000-Pro	DC.6000s							
DC.18000-Pro	DC.20000s							
VC.3038								

IMAGE STITCHING

Image stitching is the process of combining multiple images with overlapping fields of view to produce one image

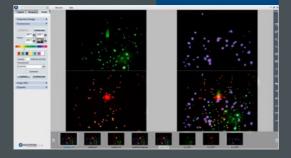
EXTENDED DEPTH OF FOCUS

"The extended depth of focus" function in the ImageFocus Alpha software or "stacking software, allows to combine a number of digital images of a object, focused at different focus planes, into one final image with much greater depth of field (see illustration below)





FREE UPDATES **AVAILABLE ON EUROMEX.COM**





ImageFocus 4

software

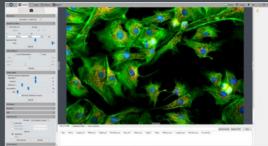
ImageFocus 4 has a wide range of functions:

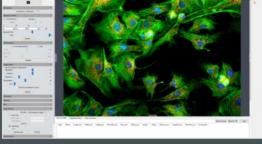
- Measurements can be done on still and live image
- Images can be saved in .jpg, .tif, .or .bmp formats as well as .avi format videos
- The brightness, contrast and saturation of captured images can be adjusted
- Camera parameters for exposure time, white balance and color control are easily accessible
- The software also has specific functions for fluorescence such as combining captured fluorescence images
- Compatible with Windows 7, 8 and 10, both 32 and 64 bits configuration. A Mac OS Light version is also available for capturing images*
- PC requirements: Intel Core2 2.8 GHz or higher or equivalent, 2GB memory or more, 17" screen
- * Mac version not available for VC Series

One language can be selected during initial installation of the ImageFocus 4 software: English, German, French, Dutch, Spanish and Russian









ImageFocus Plus

software

ImageFocus Plus has a wide range of functions:

- Measurements on still and live image
- Extended depth of focus and stitching on still and live image (only with VC.3036 and VC.3031 cameras)
- Images can be saved in .jpg, .tif, .bmp or .dicom formats as well as .avi and mpeg-4 format videos

 • The brightness, contrast and saturation of captured
- The brightness, contrast and saturation of captured images can be adjusted
- Camera parameters for exposure time, white balance and color control are easily accessible
- The software also has specific functions for fluorescence such as combining captured fluorescence images
- Compatible with Windows 7, 8 and 10, both 32 and 64 bits configuration. A Mac OS version is also available
- PC requirements: Intel Core2 2.8 GHz or higher or equivalent, 2 GB memory or more, 17" screen

ImageFocus Plus software features English, German, French, Dutch, Spanish and Russian



ImageFocus Alpha

software

ImageFocus Alpha has a wide range of functions:

- Measuring, segmentation & counting, stichting of images, extended depth of focus, etc
- Images can be saved in .jpg, .tif, .bmp or .dicom formats as well as .avi format videos
- images can be adjusted
- Camera parameters for exposure time, white balance and color control are easily accessible
- The software also has specific functions for fluorescence such as combining captured fluorescence images
- Compatible with Windows 7, 8 and 10, both 32 and 64 bits configuration. A Mac OS version is also supplied (with a few differences in features)
- PC requirements: Intel Core2 2.8 GHz or higher or equivalent, 2GB memory or more, 17" screen

One language can be selected during initial installation of the ImageFocus Alpha software English, Catalan, French, German, Indonesian, Italian, Japanese, Korean, Polish, Russian, Simplified Chinese, Spanish, Thai, Traditional Chinese, Turkish







Should you want to connect one of our cameras to another microscope brand, see adapter references below:

 st Except for the Oxion, Oxion Inverso and Delphi-X Inverso series. These microscopes need an additional adapter. See next page

Most Euromex cameras are supplied with a photo port c-mount adapter to connected it to any Euromex trinocular microscope*. Monocular microscopes require the removal of the eyepiece so that the camera can be fitted into the 23.2 mm tube. Binocular microscopes require the removal of an eyepiece plus an additional mechanical adapter

MODELS	1/3 inch camera	1/2 inch camera	2/3 inch camera	1 inch camera
Leica (1)	AE.9835-L (0.35x)	AE.9855-L (0.55x)	AE.9870-L (0.70x)	AE.9810-L (1x) AE.9812-L (1.2x)
Olympus (2)	AE.9835-O (0.35x)	AE.9850-O (0.50x)	AE.9863-O (0.63x) AE.9880-O (0.80x)	AE.9810-O (1x) AE.9812-O (1.2x)
Zeiss (3)	AE.9835-Z (0.35x)	AE.9850-Z (0.50x)	AE.9865-Z (0.65x)	AE.9810-Z (1x) AE.9812-Z (1.2x)
Zeiss ZA (4)		AE.9850-ZA (0.50x)	AE.9863-ZA (0.63x) AE.9880-ZA (0.80x)	AE.9810-ZA (1x) AE.9812-ZA (1.2x)
Nikon (5)	AE.9835-N (0.35x)	AE.9855-N (0.55x)	AE.9870-N (0.70x) AE.9880-N (0.80x)	AE.9810-N (1x) AE.9812-N (1.2x)

⁽¹⁾ Leica DM, 35 mm to 25.4 mm C-mount, stainless steel

AE.9835-L



23.2 MM PHOTO PORT C-MOUNT ADAPTERS

Suitable for all Ø 23.2 mm (photo) tubes

DC.1324 C-mount adapter with 0.45x objective for 1/2" camera

DC.1353 C-mount adapter with 0.37x objective, fixed focal length and short barrel*. For 1/3" camera

DC.1355 C-mount adapter with 0.50x objective, fixed focal length and short barrel*. For 1/2" camera

DC.1357 C-mount adapter with 0.75x objective, fixed focal length and short barrel*. For 2/3" camera

DC.1359 C-mount adapter with 1x lens, fixed focal length and short barrel, for standard 23.2 mm tube and 1 inch camera

DC.1330 30 mm to 23.2 mm conversion adapters

DC.1335 30.5 mm to 23.2 mm conversion adapters

DIGITAL SLR ADAPTERS

Digital singe lens reflex camera with a APS-C sensor can be mounted on a standard 23.2 mm trinocular tube Choose the universal DC.5130 adapter with built-in 2x objective, together with a brand-specific T-2 adapter

AE.5130 Universal SLR camera adapter for 23.2 mm tube with built-in 2x magnification lens. Needs T2 adapter

AE.5025 T2 adapter for Nikon D digital SLR cameras T2 adapter for Canon EOS digital SLR cameras

Other T2 adapters on request







AE.5130 AE.5120-2

PHOTO PORT ADAPTERS

Suitable for Euromex microscopes with a photo port such as Oxion, NexiusZoom, StereoBlue, Delphi-X Observer and Delphi-X Inverso

AE.5120-2Standard 23.2 mm diameter tube for Oxion photo
port

DI.9840 C-mount with high resolution 0.40x objective for 1/3 inch C-mount camera

DI.9850 C-mount with high resolution 0.50x objective for 1/2 inch C-mount camera

DI.9810 C-mount with 1x magnification for C-mount camera

DX.9835 C-mount with high resolution relay 0.35x objective for 1/3 inch C-mount camera

DX.9850 C-mount with high resolution relay 0.50x objective for 1/2 inch C-mount camera

DX.9863 C-mount with high resolution relay 0,63x objective for 2/3 inch C-mount camera

DX.9810 C-mount with 1 magnification for C-mount camera

NZ.9833	C-mount adapter with 0.33x objective for
	NexiusZoom microscopes and 1/3" cameras

NZ.9850 C-mount adapter with 0.5x objective for NexiusZoom microscopes and 1/2" cameras

OX.9810 C-mount adapter with 1x magnification for 1" cameras

OX.9833 C-mount adapter with 0.33x objective for Oxion microscopes and 1/3" cameras

OX.9850 C-mount adapter with 0.5x objective for Oxion and Oxion Inverso microscopes and 1/2" cameras

SB.9850 C-mount adapter with 0.5x objective for StereoBlue microscopes and 1/2" cameras

⁽²⁾ Olympus CX, CX2, BX, BX2, IX, MX, GX, SZX, STM, 42 mm to 25.4 mm C-mount, anodized aluminum

⁽³⁾ Zeiss PrimoStar, PrimoStar Vert, 30 mm to 25.4 mm C-mount, anodized aluminum

⁽⁴⁾ Zeiss 60N-C, 60N-T2 photo ports of Axio examiner, Axio Imager, Axio Lab, Axio Observer, Axio Scope, Axio Zoom, Stemy 508 and SteREO Discovery

⁽⁵⁾ Nikon E100, E200, 50i, 55i, 80i, 90i, Ni series, Ti Series, SMZ800,SMZ1000, SMZ15000, 38 mm to 25.4 mm C-mount, stainless steel

^{*} for increased light efficiency

accessories

accessories

for microscopy



ILLUMINATION SOLUTIONS • PAGE 354

DISSECTION INSTRUMENTS • PAGE 362

DISSECTION KITS • PAGE 364

MICROSCOPE PREPARED SLIDES • PAGE 366

DISPOSABLES • PAGE 378

STAINS • PAGE 379



For stereo microscopes choosing the right illumination is essential to obtain a perfect image with maximum resolution. LED light sources have a much longer life span, less energy consumption and less heating than halogen light sources

The major advantage of LED illumination is the constant light spectrum at all light intensity levels. These light sources are suitable for all kinds of applications in industry, life sciences and materials sciences



ILLUMINATION SOLUTIONS

The right light source solution can enhance and reveal the details you want to examine



Illumination solutions

MULTIFUNCTIONAL 150 W HALOGEN OR 30 W POWER-LED • COLD LIGHT SOURCE

A powerful multifunctional 150 W halogen (LE.5211) and 30 W PowerLED cold light source is ideal for the advanced requirements of numerous applications in life and materials science. The intensity is adjustable and has a built-in forced air cooling. The LE.5211 and LE.5211-LED light sources require a light fiber conductor such as the single LE.5213, dual LE.5214, triple LE.5215 or the LE.5239 or LE.5240 ring light fiber conductors. The LE.5213, LE.5214 and LE.5215 light conductors can be equipped with a lens holder (LE.5222) and a focusing lens (LE.5224)



LE.5211-LED/LE.5211 + LE.5214 +2x LE.5222 + 2x LE.5224

Power	150 W halogen	30 W PowerLED (equivalent to 120 W halogen)
Luminous flux	21,000 lux max ¹⁾	30,000 lux max.*
Color temperature	3,000 K	6,500 K
Operating voltage	100 and 240 V AC / 12 V DC (50/60 Hz)	100-240 V AC / 12 V DC (50/60 Hz)
Dimensions	(h) 150 x (w) 150 x (d) 230 mm	150 (h) x 150 (w) x 230 mm (d)
Weight	3,9 kg	2.8 kg
Model	LE.5211	LE.5211-LED

^{*} with LE.5214 dual arm light conductor

MULTIFUNCTIONAL 100 W HALOGEN • COLD LIGHT SOURCE

This popular multifunctional cold light source contains a 100 W halogen light source. The intensity is adjustable and it has a built-in forced air cooling. The LE.5210 light source requires a light fiber conductor such as the single LE.5213, dual LE.5214, triple LE.5215 or the LE.5239 or LE.5240 ring light fiber conductors. The LE.5213, LE.5214 and LE.5215 light conductors can be equipped with a lens holder (LE.5222) and a focusing lens (LE.5224). Ideal for all kinds of applications in Life and Materials sciences, various industrial applications and for stereo microscopy



Power	100 W halogen
Luminous flux	20,000 lux max.*
Color temperature	3,000 K
Operating voltage	100 and 240 V AC / 12 V DC (50/60 Hz)
Dimensions	115 (h) x 320 (w) x 215 mm (d)
Weight	3.8 kg
Model	LE.5210

^{*} with LE.5214 dual arm light conductor

COMPACT SINGLE 20 W LIGHT SOURCE



Compact cold light source with single 40 cm, 6 mm diameter fiber light conductor. Equipped with a 20 W halogen lamp. Light intensity is factory preset and can not be adjusted

Power	20 W halogen
Color temperature	3,000 K
Operating voltage	110 V AC and 230 V AC versions (50/60 Hz)
Dimensions	80 (h) x 110 (w) x 165 mm (d)
Weight	2.0 kg
Model	LE.5209

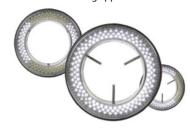
ECONOMICAL AND COMPACT DUAL 3 W LED · LIGHT SOURCE



Economical dual LED intensity adjustable light source with two 44 cm flexible gooseneck arms, each mounted with a 3 W LED. Ideal for applications in life and materials sciences, various industrial applications and for stereo microscopy

Power	2x 3 W LED = 2x 28 W halogen equivalent
Luminous flux	25,000 lux
Color temperature	6,500 K
Operating voltage	100-240 V AC / 5 V DC (50/60 Hz)
Dimensions	70 (h) x 106 (w) x 140 mm (d)
Weight	1.5 kg
Model	LE.5207

LED ring light source with high illuminance and segment illumination for all kinds of demanding applications



Ring illumination	144 LEDs with adjustable intensity and 4 segment illumination
Color temperature	6,500 K
Illuminance	23,000 lux at 100 mm distance
working distance:	from 55 to 200 mm
Mounting	for stereo head with diameter from 25 to 61 mm
Power supply	100-240 V AC / 12 V DC (50/60 Hz) / 4.5 Watt
External diameter	100 mm
Model	LE.1973

COMPACT 72 LEDS • LE.1974

Compact 20,000 lux LED ring light source



Ring illumination	72 LEDs with adjustable intensity and 4 segment illumination
Color temperature	6,500 K
Illuminance	21,000 lux at 100 mm distance
working distance:	from 50 to 180 mm
Mounting	for stereo head with diameter from 25 to 61 mm
Power supply	100-240 V AC / 12 V DC (50/60 Hz) / 4 Watt
External diameter	100 mm
Model	LE.1974

PROFESSIONAL HIGH POWER LED RING LIGHT SOURCES • LE.1980/ LE.1981

LED ring light source with maximum illuminance and metal construction for professional usage. With adjustable intensity, optional power supply/segment controller, diffuser, polarizers and Fresnel focusing lenses for perfect illumination of objects



MODELS	Number of LEDs	Color temperature	Illuminance	For mounting diameters	Internal/external diameter	Required power supply/ controller
LE.1980	48	6,000 K	17,000 lux	from 30 to 66 mm	45/90 mm	LE.1992 Analog controller
LE.1981	48	6,000 K	17,000 lux	from 30 to 66 mm	45/90 mm	LE.1993 Digital segments controller

PROFESSIONAL HIGH POWERLED RING LIGHT SOURCES LE.1990/ LE.1991

LED ring light source with maximum illuminance and metal construction for professional usage. With adjustable intensity, optional power supply/segment controller, diffuser, polarizers and Fresnel focusing lenses for perfect illumination of objects



MODELS	Number of LEDs	Color temperature	Illuminance	For mounting diameters	Internal/external diameter	Required power supply/ controller
LE.1990	72	6,000 K	21,000 lux	from 40 to 66 mm	60/110 mm	LE.1992 Analog controller
LE.1991	72	6,000 K	21,000 lux	from 40 to 66 mm	60/110 mm	LE.1993 Digital segments controller

ILLUMINATION STATION LE.5212

Light source station with multiple power supply connections for two self-sustaining gooseneck-type guides, one ring light and one transmitted stage illumination. For stand-alone usage or mounted on stereo microscope pillar stands with diameters up to 44 mm or with 35- and 25-mm pole mounting adapter rings

- · Each self-sustaining gooseneck-type LED guide is equipped with a 3-lens focusing head and has a length of 56 cm
- White 6,500 K LED ring light generating with 60 LEDs up to 24,000 Lux. Mounting diameters from 21 to 61 mm
- Transmitted light stage illumination with a 6,500 K white LED generating up to 8,000 Lux with 42 LEDs. Stage



FLUORESCENCE 40 HZ RING LIGHT SOURCE FOR Z SERIES STEREO ZOOM MICROSCOPES

Suitable for Z series stereo zoom microscopes, except for ZE.1659. Integrated 240 V AC power supply



Ring illumination	Fluorescent 40 kHz ring, fixed intensity
Color temperature	5,200 K
Illuminance	6,500 lux at 100 mm distance
working distance:	35-160mm
Mounting	48 mm with adapter for ZE series microscopes
Power supply	230-250 V
External diameter	100 mm
Model	LE.1863

ACCESSORIES AND SPARE PARTS

FOR LE.5210, LE.5211 AND LE.5211-LED COLD LIGHT SOURCES

FIBER	LIGHT CONDUCTORS
LE.5213	Single arm fiber light conductor,
	gooseneck self-sustaining,
	50 cm long, 4 mm diameter
LE.5214	Dual arm fiber light conductor,
	gooseneck self-sustaining,
	50 cm long, 4 mm diameter
LE.5215	Triple arm fiber light conductor,
	gooseneck self-sustaining,
	50 cm long, 4 mm diameter
LE.5219	Dual arm fiber light conductor,
	gooseneck self-sustaining,
	70 cm long, 4 mm diameter
LE.5239	Slit ring-shaped fiber light conductor
	60 cm long, 8 mm diameter
LE.5240	Slit ring shaped fiber light conductor
	100 cm long, 8 mm diameter
LE.5241	Flexible fiber light conductor,
	curved 90°, 60 cm long, 4 mm diameter
LE.5216	Single arm flexible fiber light conductor,

100 cm long, 4 mm diameter

LE.5235	Dual arm flexible fiber light conductor,
	100 cm long, 4 mm diameter
LE.5235-3	Dual arm flexible fiber light conductor,
	300 cm long, 4 mm diameter
LE.5217	Triple arm flexible fiber light conductor,
	100 cm long, 4 mm diameter
LE.5218	Single arm flexible fiber light conductor,
	100 cm long, 8 mm diameter
LE.5220	Single arm flexible fiber light conductor,
	200 cm long, 8 mm diameter
LE.5222	Focusing head for focusing lens LE.5224, LE.5228
	or filters LE.5229 and LE.5231
	(for fiber light conductors)
LE.5224	Focusing lens. Requires LE.5222 or LE.5228 for
	mounting on LE.5213, LE.5214 and LE.5215
LE.5228	Focusing head with iris diaphragm
	(for fiber light conductors)
LE.5229	Polarization filter
LE.5231	Conversion KB12/80B filter

HALOGEN BULBS AND FUSES

SL.5208	Halogen 20 W 12 V bulb with reflector
	(3,000 hrs nominal), GU4 fits LE.5209
SL.5219	Halogen 100 W 12 V bulb with reflector
	(50 hrs nominal), MR16 fits LE.5210
SL.5230	Halogen 100 W 12 V 'Long Life' bulb
	(1,000 hrs nominal), MR16 fits LE.5210
SL.5235	Halogen 150 W 15 V bulb
	(50 hrs nominal), MR16 fits LE.5211
SL.5240	Halogen 150 W 15 V 'Long Life' bulb
	(500 hrs nominal), MR16 fits LE.5211
AE.5227	Spare fuses 1A/250 V, 10 pieces

FOR LE.1980 AND LE.1981

LE.1984-05	0 Fresnel lens, WD from 40 to 80 mm
LE.1984-10	0 Fresnel lens, WD from 80 to 150 mm
LE.1984-20	0 Fresnel lens, WD from 150 to 240 mm
LE.1984	Diffusing filter, for WD from 40 to 300 mm
LE.1985	Glass protection window
LE.1987	Polarizing filter
LE.1888	Rotatable polarizing filter
LE.1992	100-230 V power supply analog controller.
	Intensity adjustable from 0-100%
LE.1993	100-230 V power supply digital segment
	controller. Intensity adjustable from 0-100%

FOR LE.1	990 AND LE.1991
LE.1994-050	Fresnel lens, WD from 40 to 80mm
LE.1994-100	Fresnel lens, WD from 80 to 150 mm
LE.1994-200	Fresnel lens, WD from 150 to 240 mm
LE.1994	Diffusing filter, for WD
	from 40 to 300 mm
LE.1995	Glass protection window
LE.1997	Polarizing filter
LE.1998	Rotatable polarizing filter
LE.1992	100-230 V power supply analog controller.
	Intensity adjustable from 0-100%
LE.1993	100-230 V power supply digital segment
	controller. Intensity adjustable from 0-100%

FOR LE.5212

LE.5260	Interchangeable self-sustaining gooseneck-type
	guide with a white 6,500 K high-power LED for
	NZ.9018, LE.5207 or LE.5212, 1 pc (A)
LE.5261	Interchangeable self-sustaining gooseneck-type
	guide with a 365 nm high-power UV-LED for
	NZ.9018, LE.5207 or LE.5212, 1 pc (B)
LE.5262	Interchangeable self-sustaining gooseneck-type
	guide with a 395 nm high-power Violet-LED for
	NZ.9018, LE.5207 or LE.5212, 1 pc (C)
LE.5263	Interchangeable self-sustaining gooseneck-type
	guide with a 420 nm high-power Violet-LED for
	NZ.9018, LE.5207 or LE.5212, 1 pc (D)
LE.5264	Polarization filter, screw on type for
	Interchangeable self-sustaining gooseneck-type
	guides for NZ.9018, LE.5207 or LE.5212, 1 pc

FOR LE.1863

SL.1864 Spare fluorescence lamp

WD = working distance

PREPARATION ACCESSORIES

Euromex offers the right tools for sample preparing. Before using a microscope good samples are essential to get the most accurate results



dissection instruments

PB.5050	Dissecting needle, straight tip
	with plastic handle
PB.5054	Dissecting needle, lancet-shaped
	with plastic handle
PB.5056	Blunt-pointed probe, Ø 2 mm,
	length 140 mm
PB.5058	Section lifter with wooden handle

PB.5060 Serrated thumb dressing forceps, length 13 mm

PB.5062 Dressing forceps with blunt tips, length 13 cm

PB.5064 Dressing forceps with blunt tips, length 20 cm

Dissecting forceps with sharp tips, PB.5067 length 13 cm

Dissecting forceps with finely PB.5069

curved sharp tips, length 13 cm

PB.5077 Cover glass forceps, length 11 cm



SCISSORS AND BLADES

PB.5095

PB.5103

Dressing scissors with blunt/sharp tip, length 14 cm

PB.5084 Dissecting scissors, sharp tips, length 11 cm

PB.5092 Scalpel with blunt tip, length 15 cm

Scalpel handle no. 4 PB.5094 (for blades PB.5095 and PB.5096)

Scalpel blades with sharp tip, 5 pieces per set

PB.5096 Scalpel blades with blunt tip, 5 pieces per set

Strop, double sided for stropping of scalpels, microtome knifes. Includes stropping paste

PB.5105 Razor plano/concave, for sectioning.

With plastic handle

PB.5106 Microtome knife plano/concave.

With fixed handle, length 17 cm

PB.5084



HANDHELD MICROTOMES

Cylinder microtome. Circular stage Ø 70 mm with flat black glass top. Height adjustable with micrometer division 0.01 mm. Complete with plano-concave knife PB.5106 and

wooden cabinet

Cylinder microtome. Identical to MT.5500 but MT.5501

without knife and wooden cabinet

MT.5503 Handheld microtome.

> Box type with table clamp and razor blade holder. Thickness adjustment by 0.025 mm intervals. Complete with wooden cabinet





dissection kits

4-PC DISSECTION KIT **PB.5110 IN IMITATION LEATHER CASE**

Kit with straight dissecting needle (PB.5050), dissecting forceps (PB.5067), dissecting scissors (PB.5084) and scalpel (PB.5092). Supplied with imitation leather case

6-PC DISSECTION KIT PB.5111 IN PLASTIC CASE

Kit with straight dissecting needle (PB.5050), lancet-shaped dissecting needle (PB.5054), dissecting forceps (PB.5067), dissecting scissors (PB.5084), scalpel handle no. 4 (PB.5094) and blades (PB.5096). Supplied with plastic case



10-PC DISSECTION KIT PB.5112 IN IMITATION LEATHER CASE

Kit with two straight dissecting needles (PB.5050), lancet-shaped dissecting needle (PB.5054), dressing forceps (PB.5062), dissecting forceps (PB.5067), scissors (PB.5080), dissecting scissors (PB.5084), two scalpels (PB.5094), five scalpel blades with straight tip and five blades with blunt tip (PB.5095/PB.5096). Supplied with imitation leather case



9-PC DISSECTION KIT PB.5114 IN WOODEN CASE

Kit with two straight dissecting needles (PB.5050), lancet-shaped dissecting needle (PB.5054), dressing forceps (PB.5062), dissecting forceps (PB.5067), scissors (PB.5080), dissecting scissors (PB.5084), two scalpels (PB.5094), five scalpel blades with straight tip and five blades with blunt tip (PB.5095/PB.5096). Supplied with wooden cabinet



6-PC DISSECTION KIT FOR KOI FISH PB.5115 IN PLASTIC CASE

Dissecting set for Koi fish. Consisting of plastic box with forceps with 1 x 2 points (PB.5060), forceps blunt points, 13 cm (PB.5062), scissors, blunt/ sharp points, 14 cm (PB.5080), microscope scissors, sharp points, 11 cm (PB.5084), blunt-pointed probe (PB.5056), scalpel handle no. 4 (PB.5094), five scalpel blades with straight tip and five blades with blunt tip (PB.5095/PB.5096)



PROFESSIONAL SLIDE PREPARATION KIT PB.5125 IN PLASTIC DELUXE CASE

Kit with three prepared slides, 50 microscope slides (PB.5150) and 100 cover glasses (PB.5165). Two microscope slides with cavity. Canada balsam, dissecting needle (PB.5050 and PB.5054). Dissecting forceps (PB.5067), dissecting scissors (PB.5084) and scalpel (PB.5092). Supplied with plastic deluxe case



euromex



MICROSCOPE PREPARED SLIDES



Euromex offers teachers, students and microscopy amateurs a wide range of quality micro-slides, which can be used immediately in biology classes as introduction to histology, zoology and botany

sets with 25 slides for education

histology, zoology and botany set

PB.5211 FOR EDUCATION

Set with 25 microscopy slides for education: histological samples of mammals, zoology and botany. All microscope slides are supplied in a plastic box for 25 slides. The set contains:

HISTOLOGY

SH.1011	Hard bone grinding, human, section	
SH.1045	Skeletal muscle, dog, l.s and c.s	
SH.1072	Skin section through hair follicle, human	
SH.1078	Stratified flat epithelium, dog, section	
SH.1150	Blood smear, human, Giemsa stained	
ZOOLOGY		
SZ.1510	Amoeba proteus, w.m	
SZ.1580	Hydra with bud, w.m	
SZ.1640	Lumbricus - earthworm, c.s	
SZ.1655	Daphnia sp., water flea, w.m	
SZ.1715	Musca domestica, house fly, mouth parts	
SZ.1717	Musca domestica, house fly, leg with clinging pads	

SZ.1719 Musca domestica, house fly, wing w.m

BOTANY

SB.2006	Allium cepa, onion, scale epidermis, w.m
SB.2009	Allium cepa, onion, mitosis root tip, l.s
SB.2055	Zea mays, corn, stem, cs
SB.2060	Triticum aestivum, wheat, stem, c.s
SB.2070	Helianthus, sunflower, young stem, c.s
SB.2130	Helianthus, sunflower, leaf, c.s
SB.2205	Monocot/dicot flower, zea mays/ranunculus, c.s
SB.2212	Lilium, lily, ovary, c.s
SB.2335	Mnium, w.m
SB.2355	$Rhiz opus\ nigricans, bread\ mold,\ developed\ sporangia$
SB.2377	Diatoms, w.m
SB.2381	Spirogyra sp., vegetative mass, w.m
SB.2405	Dental plaque, smear

histology, zoology and botany set

PB. 5212 FOR EDUCATION

SH.1001 Loose connective tissue, rabbit

Set with 25 microscopy slides for education: histological samples of mammals, zoology and botany. All microscope slides are supplied in a plastic box for 25 slides. The set contains:

HISTOLOGY

SH.1005	Hyaline cartilage rabbit,
SH.1160	Lymph node, rabbit, sect
SH.1230	Small intestine, dog, c.s
SH.1250	Liver, pig, section
SH.1430	Cerebrum section, dog

SH.1430	Cerebrum section, dog	
ZOOLO	OGY	
SZ.1520	Paramecium, w.m	
SZ.1625	Schistosoma Japonicum, fluke eggs, bilharziose	
SZ.1630	Taenia, tapeworm cattle, mature proglottid, w.m	
SZ.1635	Ascaris megalocephala, horse roundworm,	1
	female + male, c.s	
SZ.1708	Apis mellifica, honey bee, mouth parts	
SZ.1725	Periplaneta, cockroach, mouth parts of chewing type	
SZ.1730	Pieres brassicae, cabbage-white butterfly,	
	mouth, w.m	
SZ.1750	Periplaneta, cockroach, spiracle of insect, w.m	

BOTANY

SB.2115	Sambucus, elderberry or Morus Alba, mulberry,
	stem with cork cambium + lenticels, c.s
SB.2160	Lilium, lily leaf, c.s
SB.2225	Zea mays, corn, corn seed with embryo, l.s
SB.2235	Pirus, pear, stone cells, section
SB.2240	Triticum aestivum, wheat, kernel, l.s
SB.2305	Cyrtomium, holly fern, c.s of rhizom
SB.2310	Cyrtomium, holly fern, section
SB.2386	Oscillatoria, blue-green algae

SB.2095 Monocot/dicot stem, zea mays/pumpkin, c.s

SB.2105 Hibiscus, young stem, c.s SB.2110 Cucurbita, pumpkin, stem, l.s

USED ABBREVIATIONS	
c.s	cross section
l.s	longitudinal section
w.m	whole mount

histology, zoology and botany set

PB. 5213 FOR EDUCATION

Set with 25 microscopy slides for education: histological samples of mammals, zoology and botany. All microscope slides are supplied in a plastic box for 25 slides. The set contains:

HISTOLOGY

SH.1006	Elastic cartilage, rabbit	SH.1130	Artery and vein, rabbit, c.s
SH.1040	Smooth muscle, teased preparation, rabbit, l.s+c.s	SH.1410	Nerve, rabbit, c.s and l.s
SH.1110	Lung with injected blood vessels, rabbit, c.s		

ZOOLOGY

SZ.1535	Euglena virides, a flagellate with eyespot
SZ.1586	Hydra, w.m of tentacles
SZ.1620	Schistosoma Japonicum, female, w.m
SZ.1705	Apis mellifica, honey bee, posterior leg, w.m
SZ.1733	Pieres brassicae, cabbage-white butterfly,
	part of wing
SZ.1738	Locusta, grasshopper, mouth parts, w.m
SZ.1780	Insects - four types of legs, honey bee, house
	house mosquito, spider

BOTANY

SB.2011	Zea mays, corn root tip with hairs, l.s
SB.2020	Helianthus, sunflower, old root, c.s
SB.2025	Monocot/dicot plant roots, zea mays/helantius, c.s
SB.2040	Solanum tuberosum, potato, starch grains
SB.2075	Tilia, lime tree, one year stem, c.s
SB.2091	Hydrilla stem, c.s
SB.2100	Pelargonium hortorum, geranium, stem c.s
SB.2337	Mnium, antheridial branch, l.s
SB.2339	Mnium, archegonial branch, l.s
SB.2373	Coprinus, ink caps mushroom, section of pleus
SB.2380	Spirogyra sp. in conjugation

SB.2420 3 types of bacteria, cocci, bacilli, spirelli

histology, zoology and botany set

PB. 5214 FOR EDUCATION

SZ.1877 Rana sp, frog, blood smear

Set with 25 microscopy slides for education: histological samples of mammals, zoology and botany. All microscope slides are supplied in a plastic box for 25 slides. The set contains:

HISTOLOGY OF MAMMALS

SH.1060	$Tendon \ I.s \ (Dense \ connective \ tissue), \ dog$
SH.1075	Skin section with sweat gland, human
SH.1330	Testis rabbit, c.s
SH.1340	Ovary rabbit with developed eggs
SH.1360	Sperm, human, smear
SH.1490	Retina, rabbit, sec

ZOOLOGY

SZ.1522	Paramecium conjugation w.m
SZ.1524	Paramecium in fission, w.m
SZ.1540	Trachelomonas, a free swimming type euglena
SZ.1585	Hydra with endoderm + ectoderm, c.s
SZ.1710	Apis mellifica - honey bee compound eye, w.m
SZ.1720	Culex pipiens - house mosquito, larva w.m
SZ.1724	Giant chromosomes of salivary gland, w.m
SZ.1810	Mya arenaria, clam gill, c.s
SZ.1860	Lancelet, Section through gonads and gills, c.s

BOTANY

5017111	• •
SB.2015	Ranunculus, buttercup, root c.s
SB.2076	Tilia, lime tree, 1, 2 & 3 year stem, c.s on one slide
SB.2080	Pinus - pine tree, stem l.s
SB.2140	Triticum, wheat, leaf, c.s
SB.2150	Monocot/dicot leaves,zea mays/
	ligustrum lucidum, c.s
SB.2230	Pinus, pine tree, male (cone) globose fruit l.s
SB.2232	Pinus, pine tree, female (cone) globose fruit l.s
SB.2315	Fern, prothallium w. young sporophyte w.m
SB.2320	Cyrtomium, fern, leaf with sporangia
SB.2384	Volvox sp. w.m

histology, zoology and botany set

PB. 5215 FOR EDUCATION

Set with 25 microscopy slides for education: histological samples of mammals, zoology and botany. All microscope slides are supplied in a plastic box for 25 slides. The set contains:

HISTOLOGY

SH.1043	Cardiac muscle, dog, l.s
SH.1070	Squamous epithelium, human,
	isolated cells from mouth, smear
SH.1315	Kidney rat, sec. cortex & medulla
SH.1420	Cerebellum section, dog
SH.1450	Spinal cord, rabbit, c.s
SH.1470	Taste buds, rabbit, l.s

Z

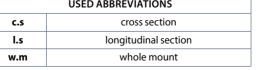
		•
ZOOLOGY		
SZ.1610	Planaria, flat worm, injected intestinal tube, w.m SB.223	4 Pinus, pine tr
SZ.1636	Ascaris megalocephala, horse roundworm, SB.2336	Marchantia, l
	mitosis eggs SB.236	o Saccaromyce
SZ.1760	Ctenocephalus canis, dog flea, w.m SB.236	5 Penicillium sp
SZ.1770	Tetranychus, red spider mite, w.m SB.2410	• Streptococus
SZ.1930	Bird, wing and down feather, section SB.2415	Bacillus subti
SZ.1940	Chicken, embryo 48 hours, sagittal section	

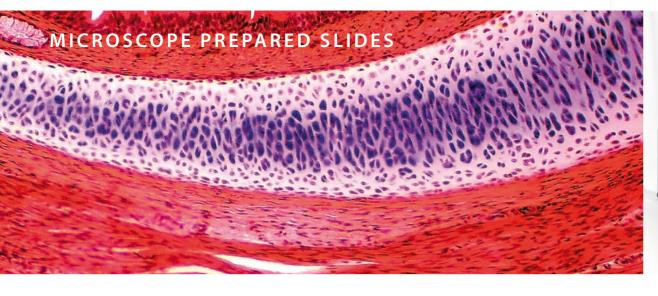
BOTANY

SB.2112	Cucurbita, pumpkin, stem, c.s
SB.2135	Nerium oleander, leaf with sunken stomata, c.s
SB.2210	Lilium, lily, anther with mature pollen, c.s
SB.2214	Lilium, lily, pollen, different stages of meiosis
SB.2220	Capsella, shepherds' purse, ovary w. embryo in
	pre-cotyledon stadium, l.s
SB.2222	Capsella, shepherds' purse, ovary w. embryo in
	cotyledon stadium, l.s
SB.2234	Pinus, pine tree, pollen, w.m
SB.2330	Marchantia, liverworts, thallus with gemma cup, c.s
SB.2360	Saccaromyces sp., yeast, budding, w.m
SB.2365	Penicillium sp., w.m
SB.2410	Streptococus lactis, milk bacteria, smear
SB.2415	Bacillus subtilis, hay bacteria, smear
	SB.2135 SB.2210 SB.2214 SB.2220 SB.2222 SB.2234 SB.2330 SB.2360 SB.2365 SB.2410

SB.2090 Hydrilla verticillata, hydrilla stem tip, l.s

USED ABBREVIATIONS	
c.s	cross section
l.s	longitudinal section
w.m	whole mount







sets with 23 slides for education

mammal histology set

PB.5221 SET FOR EDUCATION

Set with 23 microscopy slides for education: histological samples of mammals. All microscope slides are supplied in a plastic box for 25 slides. The set contains:

EPHITELIUM AND CONNECTIVE TISSUES

SH.1001 Loose connective tissue, rabbit SH.1005 Hyaline cartilage, rabbit, section

SH.1011 Hard bone grinding, human, section

SH.1049 Muscle types, striated, smooth, heart muscle, dog, l.s

SH.1060 Tendon, dog, l.s

SH.1070 Squamous epithelium, human, isolated cells

from mouth, smear

SH.1072 Skin section through hair follicle, human

SH.1078 Stratified flat epithelium, dog, section

RESPIRATORY, BLOOD CIRCULATION AND ENDOCRINE SYSTEM

SH.1120 Trachea rabbit, c.s

SH.1130 Artery and vein, rabbit, c.s

SH.1150 Blood smear, human, Giemsa stained

DIGESTIVE SYSTEM

SH.1210 Stomach wall, dog, section

SH.1230 Small intestine, dog, c.s

SH.1250 Liver, pig, section

URINARY AND GENITAL SYSTEM

SH.1310 Injected kidney, rabbit, sec

SH.1330 Testis, rabbit, c.s

SH.1340 Ovary with developed eggs, rabbit

SH.1376 Human chromosomes in blood, female

NERVOUS SYSTEM AND SENSORY ORGANS

SH.1410 Nerve, rabbit, c.s and l.s

SH.1430 Cerebrum section, dog

SH.1450 Spinal cord, rabbit, c.s

SH.1470 Taste buds, rabbit, l.s

SH.1490 Retina, rabbit, sec

mammal histology set

PB.5222 SET FOR EDUCATION

Set with 23 microscopy slides for education: histological samples of mammals.

All microscope slides are supplied in a plastic box for 25 slides. The set contains:

EPHITELIUM AND CONNECTIVE TISSUES

SH.1006 Elastic cartilage, rabbit

SH.1012 Hard bone grinding of rabbit, tooth, de-calcium

SH.1040 Smooth muscle, teased preparation, rabbit,

l.s+c.s

SH.1043 Cardiac muscle, dog, l.s

SH.1045 Skeletal muscle, dog, l.s and c.s

SH.1075 Skin section with sweat gland, human

SH.1080 Ciliated epithelium, trachea, rabbit

RESPIRATORY, BLOOD CIRCULATION AND ENDOCRINE SYSTEM

SH.1110 Lung with injected blood vessels, rabbit, c.s

SH.1140 Pancreas, rabbit, section

SH.1160 Lymph node, rabbit, section

SH.1170 Thyroid gland, rabbit, section

SH.1180 Adrenal gland, rabbit, section

DIGESTIVE SYSTEM

SH.1220 Oesophagus dog, c.s

SH.1235 Large intestine, dog, c.s

SH.1260 Gall bladder, dog, section

SH.1280 Golgi apparatus in Basal spinal ganglion, dog

URINARY AND GENITAL SYSTEM

SH.1315 Kidney, rat, sec. cortex & medulla

SH.1360 Sperm, human, smear

SH.1375 Human chromosomes in blood, male

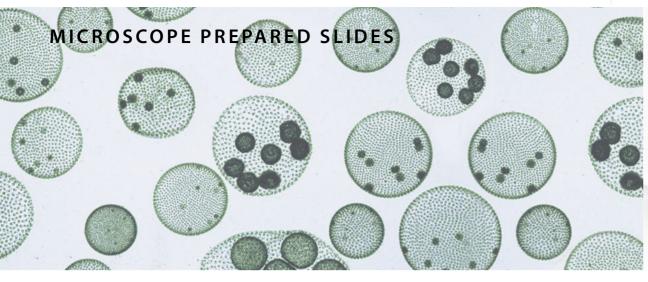
SZ.1724 Fruit fly, drosophila, giant chromosomes of salivary gland, w.m

NERVOUS SYSTEM AN SENSORY ORGANS

SH.1415 Motor nerve cells with end plates, rabbit, w.m.

SH.1420 Cerebellum section, dog

SH.1480 Eyeball section, rabbit, sagittal section





set for hobby 10 slides

zoology and botany set

PB.5204 SET FOR HOBBY

Set with 10 prepared microscopy slides for hobby: zoology and botany.

All microscope slides are supplied in a plastic box with transparent cover for 25 slides. The set contains:

ZOOLOGY

SH.1040 Smooth muscle, teased preparation, rabbit, I.sand c.s

SH.1110 Lung with injected blood vessels, rabbit, c.s

SZ.1708 Apis mellifica, honey bee, mouth parts **SZ.1733** Pieres brassicae, cabbage-white butterfly,

part of wing

SZ.1877 Rana sp, frog, blood smear

SB.2015 Ranunculus, buttercup, root, c.s

BOTANY

SB.2160 Lilium, lily leaf, c.s

SB.2222 Capsella, shepherds' purse, ovary w. embryo in cotyledon stadium, l.s

SB.2374 Aspergillus, brown mold, w.m

SB.2384 Volvox sp., w.m

USED ABBREVIATIONS c.s cross section l.s longitudinal section whole mount w.m

set for hobby 25 slides

slides of histology, zoology and botany

PB.5218 SET FOR HOBBY

Set with 25 prepared microscopy slides for hobby: zoology and botany.

All microscope slides are supplied in a plastic box with transparent cover for 25 slides. The set contains:

HISTOLOGY OF HUMAN AND MAMMALS

SH.1072 Skin section through hair follicle, human SH.1150 Blood smear human, Giemsa stained **SH.1415** Motor nerve cells with end plates, rabbit w.m. SH.1470 Taste buds, rabbit, l.s.

BOTANY SB.2009 Allium cepa, onion, mitosis root tip, l.s **SB.2055** Zea mays, corn, stem, cs SB.2075 Tilia, lime tree, one year stem, c.s **SB.2100** Pelargonium hortorum, geranium, stem c.s SB.2112 Cucurbita, pumpkin, stem, c.s SB.2130 Helianthus, sunflower, leaf, c.s SB.2135 Nerium oleander, leaf with sunken stomata, c.s **SB.2210** Lilium, lily, anther with mature pollen, c.s **SB.2225** Zea mays, corn, corn seed with embryo, l.s

ZOOLOGY

SZ.1520 Paramecium, w.m.

SZ.1535 Euglena virides, a flagellate with eyespot **SZ.1580** Hydra with bud, w.m **SZ.1630** Taenia, tapeworm cattle, mature proglottid, w.m **SZ.1635** Ascaris megalocephala, horse roundworm, female and male, c.s **SZ.1640** Lumbricus, earthworm, c.s **SZ.1655** Daphnia sp., water flea, w.m **SZ.1705** Apis mellifica, honey bee, posterior leg, w.m **SZ.1710** Apis mellifica, honey bee compound eye, c.s **SZ.1719** Musca domestica, house fly, wing w.m **SZ.1722** Culex pipiens, house mosquito, female, mouth parts SZ.1724 Fruit fly, drosophila, giant chromosomes of salivary gland, w.m



individual euroslides

prepared slides

Euromex supplies complete sets and individual prepared microscope slides for educational use as well as for the hobby market

usually supplied directly from stock, at the very best prices. The slides on the next page are separately available



HOW TO ORDER INDIVIDUAL EUROSLIDES

- Minimum purchase quantity is 10 pieces of the same slide
- The individual slides always have to be ordered together with a storage box (e.g. PB.5181 for 25 slides)

individual euroslides for histology

These histological microscope slides consist of sample of ephitelium and connective tissues, the respiratory system, blood circulation, endocrine system, digestive system, urinary and genital systems, nervous system and sensory organs

EPHITELIUM AND CONNECTIVE TISSUES

SH.1001 Loose connective tissue, rabbit **SH.1005** Hyaline cartilage rabbit, section

SH.1006 Elastic cartilage, rabbit

SH.1011 Hard bone grinding, human, section

SH.1012 Hard bone grinding of rabbit, tooth, decalcium

SH.1040 Smooth muscle, teased preparation, rabbit. Ls and c.s

SH.1045 Skeletal muscle, dog, l.s and c.s

SH.1049 Muscle types, striated, smooth, heart muscle, dog, l.s

SH.1060 Tendon, dog, l.s

SH.1072 Skin section through hair follicle, human

SH.1078 Stratified flat epithelium, dog, section

SH.1080 Ciliated epithelium, trachea, rabbit

RESPIRATORY, BLOOD CIRCULATION AND ENDOCRINE SYSTEM

SH.1110 Lung with injected blood vessels, rabbit, c.s

SH.1120 Trachea, rabbit, c.s

SH.1130 Artery and vein, rabbit, c.s

SH.1140 Pancreas, rabbit, section

SH.1150 Blood smear, human, Giemsa stained

SH.1160 Lymph node, rabbit, section

DIGESTIVE SYSTEM

SH.1220 Oesophagus, dog, c.s SH.1230 Small intestine, dog, c.s

SH.1250 Liver, pig, section

URINARY AND GENITAL SYSTEM

SH.1310 Injected kidney, rabbit, section

SH.1330 Testis, rabbit, c.s

SH.1340 Ovary with developed eggs, rabbit

SH.1360 Sperm, human, smear

NERVOUS SYSTEM

AND SENSORY ORGANS

SH.1410 Nerve, rabbit, c.s and l.s.

SH.1415 Motor nerve cells with end plates, rabbit, w.m

SH.1420 Cerebellum section, dog

SH.1450 Spinal cord, rabbit, c.s

SH.1470 Taste buds, rabbit, l.s

SH.1490 Retina, rabbit, section

USED ABBREVIATIONS	
c.s	cross section
l.s	longitudinal section
w.m	whole mount



@ euromex



individual euroslides for zoology

This series of zoology microscopy slides consists of samples with single-cell organisms (protozoa), coelenterate, worms (helminthes), Crustaceans (crustaceae), insects and amphibians

PROTOZOA

SZ.1510	Amoeba proteus, w.m
SZ.1520	Paramecium, w.m
SZ.1522	Paramecium in conjugation w.m
SZ.1535	Euglena virides, a flagellate with eyespot
SZ.1540	Trachelomonas, a free swimming type euglena

COELENTERATA

SZ.1580 Hydra with bud, w.m

HELMINTHES

SZ.1630	Taenia, tapeworm pig, mature proglottid, w.m
SZ.1635	Ascaris megalocephala, horse roundworm,
	female + male c.s
SZ.1636	Ascaris megalocephala, horse roundworm,
	mitosis eggs
SZ.1640	Lumbricus, earthworm, c.s

CRUSTACEANS

SZ.1655 Daphnia sp., water flea, w.m

INSECTS

SZ.1705	Apis mellifica, honey bee, posterior leg, w.m
SZ.1708	Apis mellifica, honey bee, mouth parts
SZ.1710	Apis mellifica, honey bee compound eye, c.s
SZ.1719	Musca domestica, house fly, wing, w.m
SZ.1720	Culex pipiens, house mosquito, larva, w.m
SZ.1722	Culex pipiens, house modquito, female,
	mouth parts
SZ.1724	Drosophila, fruit fly, giant chromosomes
	of salivary gland, w.m

\$7 1730 Pieres brassicae cabbage-white butterfly

32.1730	rieres brassicae, cabbage-writte butterily,
	mouth, w.m
SZ.1733	Pieres brassicae, cabbage-white butterfly, part of wing

SZ.1780 Insects- four types of legs, honey bee, house fly, house modquito, spider

AMPHIBIANS

JE.10//	nana sp, nog, blood sineal
SZ.1880	Frog uncleaved egg, c.s
SZ.1881	Frog egg, two cells stadium, c.s
SZ.1883	Frog egg, advanced cleavage c.s
SZ.1885	Frog egg, blastula phase, c.s
SZ.1887	Frog egg, early gastrula phase, c.s
SZ.1889	Frog egg, advanced gastrula phase, c.

\$7 1877 Rana sp. frog. blood smear

HOW TO ORDER INDIVIDUAL EUROSLIDES

- Minimum purchase quantity is 10 pieces of the same slide
- The individual slides always have to be ordered together with a storage box (e.g. PB.5181 for 25 slides)

individual euroslides for botany

This series of botanic microscopy slides consists of samples of sections of roots, stems, leaves, flowers, fruits and seeds, ferns and mosses, fungi, algae and bacteria

ROOTS

SB.2009	Allium cepa, onion, mitosis root tip, l.s
SB.2015	Ranunculus, buttercup, root, c.s
SB.2020	Helianthus, sunflower, old root, c.s
SB.2025	Monocot/dicot plant roots, zea mays/helantius, c.s
SB.2040	Solanum tuberosum, potato, starch grains

SB.2006 Allium cepa, onion, scale epidermis, w.m.

STEMS

SB.2055 Zea mays, corn, stem, c.s

SB.2060 Triticum aestivum, wheat, stem, c.s

SB.2070	Helianthus, sunflower, young stem, c.s
SB.2076	Tilia, lime tree, 1, 2 and 3 year stems on one slide,
SB.2095	Monocot/dicot stem, corn/pumpkin, c.s
SB.2100	Pelargonium hortorum, geranium, stem, c.s
SB.2105	Hibiscus, young stem, c.s
SB.2115	Sambucus, elderberry or Morus Alba, mulberry,
	stem with crok cambium and lenticels, c.s

LEAVES

SB.2130	Helianthus, sunflower, leaf, c.s
SB.2135	Nerium oleander, leaf with sunken stomata, c.s
SB.2140	Triticum, wheat, leaf, c.s
SB.2150	Monocot/dicot leaves, zea mays/ligustrum lucidum, c.s
SB.2160	Lilium, lily leaf, c.s

FLOWERS, FRUITS AND SEEDS

SB.2210	Lilium, lily, anther with mature pollen, c.s
SB.2212	Lilium, lily, overy, c.s
SB.2214	Lilium, lily, pollen, different stages of meiosis
SB.2220	Capsella, shepherds' purse, ovary w. embryo
	in pre-cotyledon stadium, l.s
SB.2222	Capsella, sheperd's purse, ovary w. embryo
	in cotyledon statium, l.s
SB.2225	Zea mays, corn seed with embryo, l.s
SB.2232	Pinus, pine tree, female (cone) globose fruit, l.s
SB.2240	Triticum aestivum, wheat, kernel, l.s

SB.2205 Monocot/dicot flower, zea mays/ranunculus, c.s

FERNS AND MOSSES

SB.2315	Cyrtomium, holly fern, prothallium
	with young sporophyt, w.m
SB.2337	Mnium, antheridial branch, l.s
SB.2339	Mnium, archegonial branch, l.s

FUNGI

SB.2360	Saccaromyces sp., yeast, budding, w.m
SB.2365	Penicillium sp., w.m
SB.2373	Coprinus, ink caps mushroom, section of pileu
SB.2374	Aspergillus, brown mold, w.m

ALGAE

SB.2377	Diatoms, w.m
SB.2380	Spirogyra sp. in conjugation
SB.2384	Volvox sp., w.m

BACTERIA

SB.2420 3 types of bacteria, cocci, bacilli, spirelli





disposables

MICROSCOPE SLIDES AND COVER GLASSES

PB.5150 Microscope slides 76 x 26 mm, half white glass, cut edges. 50 pieces

PB.5155 Microscope slides 76 x 26 mm white glass,

ground edges. 50 pieces

PB.5157-W Microscope slides 76 x 26 mm, ground white frosted side, 50 pieces

PB.5157-B Microscope slides 76 x 26 mm,

ground blue frosted side, 50 pieces

PB.5160 Microscope slides 76 x 26 mm with concavity,

ground edges. 10 pieces

PB.5165 Cover glasses 18 x 18 mm,

thickness 0.13-0.17 mm. 100 pieces

PB.5168 Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm.

PB.5170 Cover glasses Ø18 mm, thickness 0.13-0.17 mm. 100 pieces

MICROSCOPE SLIDE BOXES

PB.5181 Black plastic slide box for 25 PB.5180 Wooden slide box for 25 slides.

White interior with index

PB.5185 Black plastic slide box for 100 slides



MISCELLANEOUS ACCESSORIES

Staining enables observation of cells and tissues of low contrast.

PB.5200 Staining trough for 10 slides

Euromex offers a range

of common stains

PB.5210 Fine pointed brush

STAINS

PB.5245 Lens paper. 100 sheets

PB.5250 Solid paraffin. Melting point 60°C, 200 grams

PB.5255 Immersion oil, refractive index nD = 1.482, (25 ml)

PB.5265 Entellan, quick drying Canada balsam. In bottle (25 ml)

PB.5274 Isopropyl alcohol 99%. In bottle (200 ml)

PB.5277 Formalin 40%, fixing agent. In bottle (200 ml)

PB.5275 Cleaning kit: lens cleaning fluid, lint free lens

tissue, brush, air blower, cotton swabs

PB.5276 Microscope maintenance and servicing kit, 16pcs: cleaning brush, 6 pcs screwdriver set, air blower, 3 pcs Allen key, 1.5, 2, 2.5 mm, lens cleaning fluid 20 ml, cleaning cloth 140 x 140 mm, 100 pcs lens tissue sheets, tube of maintenance grease, 10 ml bottle of oil, packed in a nice toolbox



PB.5276

PB.5280 / PB.5274

(DISSOLVED) STAINS

Supplied in 25 ml bottles

PB.5280 Azo carmine-G. Biological stains for animal tissues. Also suitable for bacteria pigmentation

RING FLUID

TRA BLUE

ORING FLUID

RING FLUID

PB.5283 Eosin yellow. Stain for general overall-view coloring

PB.5286 Haematoxylin according to Ehrlich. General purpose nuclear stain

PB.5289 Astra Blue. Stain for vegetal cells.

To be used in combination with safranin

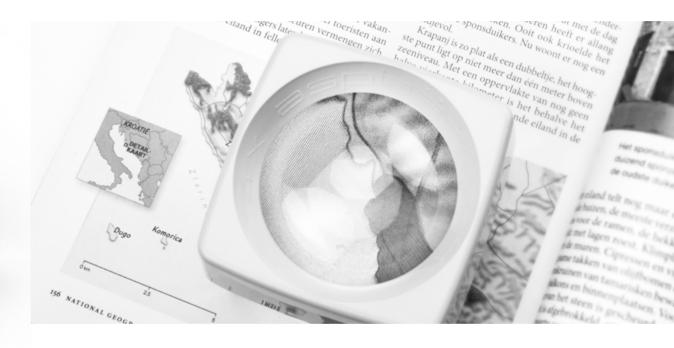


euromex

other products

optical instruments





Euromex offers a large range of optical products for a wide variety of applications in different fields

Our high-quality magnifiers, refractometers and other optical instruments all ensure an excellent optical quality and unmatched durability

MAGNIFIERS &

MEASURING MICROSCOPES • PAGE 382

REFRACTOMETERS • PAGE 386

POLARIMETERS • PAGE 393

SPECTROSCOPES • PAGE 394

PATHOLOGY SCANNER • PAGE 396





MAGNIFIERS & MEASURING MICROSCOPES



handheld magnifiers

and magnifiers with handles

	PB.5020	Magnifier with handle 4x, lens Ø 50 mm		
		and handle Ø 8 mm. Fits on PB.5022		NO
	PB.5021	Magnifier with handle 10x, aplanatic lens Ø 25 mm		
		and handle Ø 8 mm. Fits on PB.5022		NI I
	PB.5022	Heavy stand with adjustable cross clamp, base \emptyset		- 10
		70 mm. Weight 450 grams. For PB.5022 and PB.5021		
	PB.5026	Handheld magnifier 10x with illuminator,		
		aplanatic lens Ø 28 mm. Field of view 30 mm.		
		Supplied without batteries		
			● PB.5021	
AGINIFIENS INSTRUMENTS		PB.5026	PEAK	
IMI		• PB.5020	PB.5022 •	

FOLDING MAGNIFIERS

PB.5016 Aplanatic magnifier 6x, doublet. Lens Ø 20 mm. Field of view 25 mm

PB.5018 Aplanatic magnifier 15x, doublet. Lens Ø 18 mm. Field of view 14 mm

PB.5032 Achromatic magnifier 10x, triplet. Lens Ø 20 mm. Field of view 15 mm

PB.5033 Achromatic magnifier 20x, triplet. Lens Ø 20 mm. Field of view 8 mm PB.5036 Aplanatic magnifier 10x, doublet. Lens Ø 20 mm. Field of view 20 mm

PB.5037 Achromatic diamond magnifier 10x with four lenses Ø 21 mm. Field of view 25 mm



PB.5032

FOLDING MAGNIFIERS WHITE LED ILLUMINATION

PB.5034-LED Achromatic magnifier 10x triplet. Lens Ø 21 mm. White LED illumination

PB.5018-LED Achromatic magnifier 15x triplet. Lens Ø 21mm. White LED illumination

PB.5033-LED Achromatic magnifier 20x, triplet. Lens Ø 21 mm. White LED illumination

PB.5035-LED Achromatic magnifier 30x triplet. Lens Ø 21 mm. White LED illumination



PB.5016

FOLDING MAGNIFIERS WHITE LED AND UV ILLUMINATION

PB.5034-LUV Achromatic magnifier 10x triplet. Lens Ø 21 mm. White LED and UV illumination

PB.5018-LUV Achromatic magnifier 15x triplet. Lens Ø 21mm. White LED and UV illumination

PB.5033-LUV Achromatic magnifier 20x, triplet.

Lens Ø 21 mm. White LED and UV illumination PB.5035-LUV Achromatic magnifier 30x triplet.

Lens Ø 21 mm. White LED and UV illumination





PB.5034-LUV

MAGNIFIERS & MEASURING MICROSCOPES

Measuring microscopes are built with a microscope objective for magnifications from 20 to 100x times



magnifiers & measuring microscopes

TABLE MAGNIFIERS

PB.5039 Table magnifier, 15x magnification. Glass achromatic lens Ø 19 mm, field of view 15 mm

PB.5041 Table magnifier, 10x magnification. Glass lens Ø 26 mm, field of view 25 mm

PB.5043 Table magnifier, 4x magnification. Plastic lens Ø 57 mm, field of view 55 mm

PB.5040 Table magnifier, 8x magnification. Plastic lens Ø 23 mm, field of view 30 mm. 10mm/100 reticle











MISCELLANEOUS MAGNIFIERS

PB.5030 Dual sliding magnifier with 3x and 6x magnification. Lens aperture 23 x 23 mm. Fields of view 50 x 50 mm and 25 x 25 mm. Plastic housing

PB.5049 Linen tester folding magnifier with 6x aplanatic lens. A 25 x 25 mm base with millimeter scale. Metal casing lacquered in black. Supplied with plastic case



MEASURING MAGNIFIERS WITH RETICLE

PB.5044 Measuring magnifier 7x. Eyepiece Ø 18 mm. Field of view 24 mm. Measuring scale 10-0-10 mm divided into 0.1 mm and crosshairs

PB.5045 Measuring magnifier 7x. Eyepiece Ø 18 mm. Field of view 24 mm. Measuring scale 10-0-10 mm divided into 0.1 mm and crosshairs. With 5 interchangeable scales for angle, thickness and linear measurements

PB.5046 Measuring magnifier 10x. Eyepiece Ø 20 mm. Field of view 35 mm. Measuring scale 15-0-15 mm with 0.1, 0.2 and 0.5 mm graduations

PB.5048 Measuring magnifier 4x. Eyepiece Ø 30 mm. Field of view 65 mm. Measuring scale 25-0-25 mm with 0.1, 0.2 and 0.5 mm graduations

PB.5047 Measuring magnifier 10x. Eyepiece Ø 25 mm. Field of view 30 mm. Measuring scale 15-0-15 mm with 0.1, 0.2 and 0.5 mm graduations. White LED-illumination



PB.5045





MEASURING MICROSCOPES

PB.5008 Measuring microscope 20x with LED illumination. Measuring scale 7.2 mm with 0.1 mm graduation

PB.5010 Measuring microscope 40x with LED illumination. Measuring scale 3 mm with 0.05 mm graduation

PB.5012 Measuring microscope 60x with LED illumination. Measuring scale 1.75 mm with 0.02 mm graduation

PB.5014 Measuring microscope 100x with LED illumination. Measuring scale 1.1 mm with 0.01 mm graduation



refractometers





refractometers

Refractometers are used for the identification of substances and concentration measurements of fluids. Because the refractive index (R.I.) of a solution is proportional to the concentration, it is easy to identify the substance or to measure the purity and concentrations of solutions

The Euromex refractometers are calibrated at 20° Celsius. Most refractometers are equipped with Automatic Temperature Compensation (ATC)

REFRACTOMETERS • PAGE 374 ABBE REFRACTOMETER • PAGE 377

@ euromex



refractometers

handheld and table models

A refractometer is an instrument that measures the refractive index of a liquid or refractive material such as sugar concentrations in fruits, juices, soft drinks, energy drinks, wines or must, liquors, jams, honey, industrial lubricants, antifreeze, ethanol, battery acids, salt, propylene glycol, ethylene glycol solutions

A few drops of the liquid that needs to be examined are gently deposited on a measuring prism and covered with a cover-glass. The rays of the light source (ambient light, built-in LED light source or external cold-light source) will be bent (refracted) in function of the composition of the liquid under observation

This results in a shadow line between a dark and a light portion. The measured value can be directly read through a focusable eyepiece on a refraction index scale and/or on a specific built-in scale(s) of the refractometer in Brix, Oechsle, Babo units or % volume, specific gravity, protein in serum or

Euromex offers portable or handheld refractometers, analogue or digital and laboratory Abbe refractometer products used in wine making, distilling, food processing, canning, beekeeping, brewing, pharmaceutical, manufacturing, machining, automotive industries

Most of the refractometers have also an A(utomated) T(emperature) C(ompensation) mechanism in order to compensate for temperature variations. Calibration can be verified with a calibration fluid (in most cases distilled water) and adjusted by a screw if needed

					ATC	Handheld model	Table model	Analog	Digital
Application	Art no	Range	Accuracy	Remarks	₹	Ĩ	Ē	₹	Ճ
Concentrations of sugar in marmalades,	RF.6190	0-90 Bri	ix 0.2	3 scales: 0-42 / 42-71 / 71-90 Brix		•		•	
fruits, syrups,	RF.6510	0 - 10 Br	ix 0.1		•	•		•	
wine and monitoring	RF.6520	0 - 20 Br	ix 0.1		•	•		•	
of oil emulsions	RF.6532	0 - 32 Br	ix 0.2		•	•		•	
	RF.6562	28 - 62 Bri	ix 0.2		•				
	RF.6580	0-80 Br	ix 0.5		•				
	RF.6582	45 - 82 Bri	ix 0.5		•				
	RF.6592	58 - 92 Bri	ix 0.2		•				
	RF.6635	0 - 150 °O	e 1	Oechsle units	•				
		0 - 35 Bri	ix 0.2	Sugar concentration					
		0 - 27 °K	MW 0.2	Babo units					
		0-22 %	0.2	% volume					
		0-37 CN	IM 0.5						
	RD.6735	0 - 150 °O	e 1		•	•			•
		0 - 35 Bri	ix 0.1						
		0-25 °K							
		0-22 %	0.1						
	RD.6645	0 - 45 Bri			•	•			•
		1.33 - 1.41 R.I							
	RD.6666	0-80 Bri			•	•			•
		1.33 - 1.51 R.I							
	RD.6667	58 - 92 Bri			•	•			•
	D= 4444	1.43 - 1.52 R.I							
Honey	RF.6642	13 - 25 %	0.1	Honey moisture	•	•		•	
	RF.6644	58 - 92 Bri			•	•		•	
		38 - 43 °B							
		12 - 27 %	1	Water					
Concentration of	RF.6627	0 - 25 %	0.2	% volume	•	•		•	
sugar/alcohol %		0 - 40 Bri							
C 1: 1:	DE 6640	0 - 20 Ba							
Salinity and	RF.6610	0 - 100 %			•	•		•	
concentration of sugar		0 - 10 Bri							
	DE 6630	1.00 - 1.07 R.I 0 - 28 %							
	RF.6628	0-28 %	0.2		•	•		•	
	RD.6728	0 - 28 %	0.1	% NaCl	•	•			•
		0-45 Bri	ix 0.1						
		1.33 - 1.41 R.I	. 0.0003	Only for sugar/salt					

Application	Art no	Range	Асси	ıracy	Remarks	ATC	Handheld model	Table model	Analog	Digital
Clinical applications	RF.6612	0 - 12 g	g/dl 0.	.2	Proteins in serum	•	•		•	
Proteins		1.00 - 1.05 s	sg 0.0	02	Urine specific gravity					
		1.333 - 1.360 F	R.I 0.00	003						
	RF.6614	2 - 14 g	g/dl 0.	.1	Proteins in serum	•	•		•	
		1.00 - 1.06 s	sg 0.0	01	Urine specific gravity (dog)					
		1.00 - 1.06 s	sg 0.0	01	Urine specific gravity (cat)					
	RD.6712	0 - 12 g	g/dl 0.	.1	Proteins in serum	•	•			•
		1.00 - 1.05 s	sg 0.0	01	Urine specific gravity					
		1.33 - 1.39 F	R.I. 0.00	001						
	RD.6714	0 - 14 g	g/dl 0.	.1	Proteins in serum (dog)	•	•			•
		0 - 14 g	g/dl 0.	.1	Proteins in serum (cat)					
		1.00 - 1.06 s	sg 0.0	01	Urine specific gravity (dog)					
		1.00 - 1.06 s	sg 0.0	01	Urine specific gravity (cat)					
		1.33 - 1.39 F	R.I. 0.00	001						
Battery Acid/Coolant	RF.6650	1.10 - 1.40 s	sg 0.0	01	Battery fluids	•	•		•	
		-50/0 °	°C 5	5	Ethylene glycol G13					
		-50/0 °	°C 5	5	Propylene glycol G11/12					
		-40/0 °	°C 10	0	windshield washer fluid					
	RD.6730	1.0 - 1.50 s	sg 0.0	01	Battery fluids	•	•			•
		-50/0 °	°C 0.	.5	Ethylene glycol G13					
		-50/0 °	°C 0.	.5	Propylene glycol G11/12					
		-40/0 °	°C 0.	.5	windshield washer fluid					
Identification of precious stones	RF.6381	1.30 - 1.81 F	R.I. 0.0	01				•	•	

ACCESSORIES AND SPARE PARTS



RF.5295	Test slide 78.8 Brix for calibration of RF.5190
RF.5384	5 ml immersion nD 1.79 liquid for RF.5381
LE.5209	20 W 12 V cold light source with single fiber light
	conductor (for Abbe refractometer 98.490)
SL.5208	Spare 20 W 12 V halogen bulb
98.492	Thermometer 0-50° C
	(for Abbe refractometer 98.490)
98.496	Calibration slide nD 1.5163
	(for Abbe refractometer 98.490)



The Abbe laboratory refractometer is a bench-top instrument for high-precision measurements of an index of refraction and suitable for determination of the refractive index of solid samples, such as glass, plastics, and polymer films

The instrument is supplied with a thermometer and water connection to control fluid temperatures. Also equipped with a Brix and a refraction index scale and supplied with a test plate

Capable of measuring all kinds of concentrations and identifying several types of substances

The Abbe refractometer can be connected to a water bath for measuring at a controlled temperature. During the use of this type of refractometer the use of a cold light source such as the LE.5209 is recommended. This Abbe table refractometer has

scales for measurement of sugar concentrations and refractive indices. Delivered with carrying case, digital thermometer, calibration plate and adjusting tool



Substance identification of sugar concentration

MODEL	Scales	Accuracy	Remarks	Analog
98.490	0-95 Brix	0.5 Brix	Abbe table refractometer without light source	•
	1.300-1.700 RI	0.0002 RI		

polarimeters & spectroscopes



polarimeters & spectroscopes

A polarimeter measures the rotation angle of polarized light traveling through an optically active substance.

The rotation angle of the polarization plane of linear polarized light is different for each optical active substance as described in the Law of Biot

Polarimetry is a non-destructive test method for measuring optical activity of organic and inorganic substances. It is very useful to analyze expensive non-reproducible samples. Polarimeters are extensively used for quality and process control in research laboratories in the chemical and food industry

Spectroscopes are used to visualize the light spectrum of light sources



Polarimeters are suitable for fast and accurate measurements of sugars, glucose, perfume, chemical substances and medical drugs. Equipped with a Glan Thomson prism and Laurent Quartz plate, a built-in 230 V 589.3 nm sodium lamp or a high-power LED with 589.3 nm filter

Polar scale, range ± 180° with 0.1° readings.
Supplied with observation tubes of 100 mm and 200 mm.
Bright light measuring field permits reading with accuracy of 0.1° with aid of Vernier



HIGHLIGHTS

- The polarimeters are delivered with 100 and 200 mm observation tubes
- Equipped with a built-in 230 V 589.3 nm sodium lamp or high-power LED with 589.3 nm filter
- · Fast and accurate

ACCESSORIES FOR 99.400

99.410	Measuring tube, 100 mm long
99.415	Measuring tube, 200 mm long
99.430	Cover glass for measuring tube Ø 15 mm
99.431	Rubber ring (for 99.430)
99.197	Spare sodium 589.3 nm lamp

MODEL	Scales	Accuracy	Observation tubes 100 and 200 mm	230 V sodium lamp with 589.3 nm filter	230 V High power LED with 589.3 nm filter
99.400	± 180 °	\pm 0.1 $^{\circ}$ polar scale	•	•	
99.400-LED	± 180 °	\pm 0.1 $^{\circ}$ polar scale	•		•

euromex



handheld spectroscopes

SP.5200

Handheld spectroscope with adjustable slit, comparison prism, mirror, five glass mini-cuvettes and wavelength scale 400 - 700 nm with 589 nm indication. Divisions 10 nm

- Direct vision type
- Adjustable eye lens
- Adjustable slit 0 1 mm
- Angle dispersion C F 7°
- Linear dispersion 60 mm
- Comparison prism for comparison between products
- Mirror
- 5 Glass cuvettes
- Wavelength scale 400 700 nm



MODEL	Dimensions	Weight (grams)	Adjustable slit	Comparison prism	Angle dispersion	Linear dispersion	Wavelength scale	589 nm indication	With 5 glass cuvettes
SP.5200	h50xl115xp23	250	0-1 mm	•	C-F 7°	60 mm		•	•

SP.5155

Handheld spectroscope with adjustable slit and comparison prism, mirror and five glass cuvettes

- Direct vision type
- Adjustable eyelens
- Adjustable slit 0 1 mm
- Angle dispersion C F 7°
- Linear dispersion 60 mm
- Comparison prism
- Mirror
- five Glass cuvettes



MODEL	Dimensions	Weight (grams)	Adjustable slit	Comparison prism	Angle dispersion	Linear dispersion	Wavelength scale	589 nm indication	With 5 glass cuvettes
SP.5155	h45x l105xd23	125	0-1 mm	•	C-F 7°	60 mm			•

SP.5150

Handheld spectroscope with adjustable slit from 0 tot 1 mm

- Direct vision type
- Adjustable eye lens
- Adjustable slit 0 1 mm
- Angle dispersion C F 7°
- Linear dispersion 60 mm



MODEL	Dimensions	Weight (grams)	Adjustable slit	Comparison prism	Angle dispersion	Linear dispersion	Wavelength scale	589 nm indication	With 5 glass cuvettes
SP.5150	90 x18 mm Ø	92	0-1 mm		C-F 7°	60 mm			

SP.5100

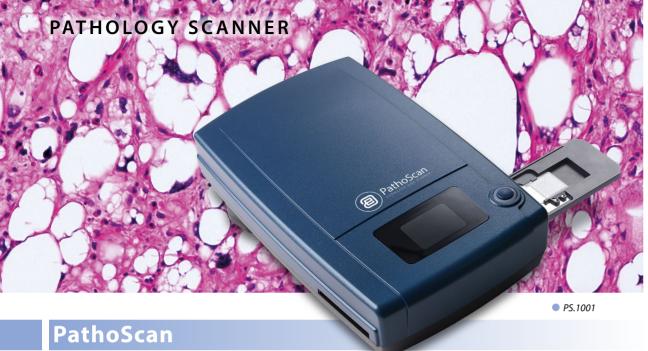
Handheld spectroscope with fixed slit

- Direct vision type
- Adjustable eye lens
- Fixed slit
- Angle dispersion C F 6°
- Linear dispersion 40 mm



SP.5100

MODEL	Dimensions	Weight (grams)	Adjustable slit	Comparison prism	Angle dispersion	Linear dispersion	Wavelength scale	589 nm indication	With 5 glass cuvettes
SP.5100	90 x18 mm Ø	72			C-F 6°	40 mm			



10,000 DPI slide scanner

In pathology, histology and other medical fields, medical professionals look at tissue slides under a microscope. Often the tissues are stained to highlight certain structures enabling the specialists to perform their analysis. Euromex offers a digital solution for these specialists

The PathoScan digital microscope slide scanner produces quick, reliable and high-resolution digital images of cells. Once the slides are digitized there are numerous advantages against classic microscopy

The users now have the ability to upload the scanned images onto a network for sharing and collaboration among colleagues, resolving in better and faster diagnostics. The scanned slides can also be used for education purposes. Digitized slides also can be analyzed using the specialists own dedicated software. The software can be used to automate the manual counting of structures, or for classifying the condition of tissue such as is used for grading tumors

PATHOVIEW SCANNING SOFTWARE

- · Easy Preview and Scan Slide
- · Quick setting exposure time
- Scan resolution from 1,000~10,000 dpi
- · File format: TIF and JPEG
- Images can also be used with microscopy analysis software

70 (h) x 150 (w) x 260 mm (d) | 1.0 kg

HIGHLIGHTS

Supports standard microscopy slide 76 x 26 mm

From basic histology research to Life science education

- Scans full slide
- Simple user interface
- Superior quality, 3-line CCD sensor
- 48-bit, 10,000 dpi, 5 μm resolution
- Industry-leading scanning speeds
- Holder for two slides included
- Polarization attachment available



PS.1001 / PS.3001

SPECIFICATION

Resolution	10,000 x 10,000 dpi
Scan mode	Color
Dynamic Range	3.8
Scanning Area	24.3 x 36.5 mm (H x W)
Scanning medium	76 x 26 mm slides
File Format	Saving in JPG, TIFF format
Light Source	Transmission white LED
Operating System	Windows 7/8/10 Intel-based Mac OS X 10.5/10.6 /10.7/10.8
Power supply	100- 240 AC Adapter, 12 V 1.5 A
Supplied with	Double slide holder, 100-240 V power supply, USB-2.0 cable,
Supplied with	PathoView scanning software and user manual
Model	PS.1001

MODELS

PS.1001	PathoScan 10,000 DPI slide scanner
PS.3001	Double slide holder

choose the right euromex microscope

Euromex offers a large range of microscope series. Selecting the right microscope for your application might be challenging and time consuming.

To simplify this process we have listed our recommended models for most common applications in education, laboratories and industry

EDUCATION FIELD OF APPLICATION **RECOMMENDED MODELS**

• botany	Study of plants as branch of biology. Plant anatomy and morphology. Plant genetics and ecology. Plant biochemistry	MicroBlue, EcoBlue, BioBlue, BioBlue.Lab, AP series, EduBlue, StereoBlue
• digital imaging	Observation and perform analysis on microscope images, storage and share captured and videos	CMEX cameras, CCD cameras, HD cameras, EduPad, MacroZoom
• electronics	Development, production, assembling and inspection of electronic components or circuitry	bScope® (materials), EduBlue, StereoBlue, NexiusZoom, MacroZoom
• entomology	Study of insects as branch of zoology. Identification and classification of beetles, flies, termites, moths and butterflies, bees, ants, wasps	MicroBlue, EcoBlue, BioBlue, BioBlue.Lab, AP series, EduBlue, StereoBlue, MacroZoom
• geology, mineralogy	Earth Science; Study of solids, rocks and processes. Identification and classification of rocks and minerals	EcoBlue (polarization), BioBlue (polarization), AP series, EduBlue, StereoBlue
• geology, petrology	Identification by means of petrographic microscope	EcoBlue (polarization), BioBlue (polarization), AP series, EduBlue, StereoBlue
• mechanics	Manufacturing and quality inspection of mechanical parts	bScope® (materials), EduBlue, StereoBlue, NexiusZoom, MacroZoom
• microbiology	Study of microscopic uni-, multi- or acellular small organisms such as protozoa, algae, bacteria and more. Identification and classification	EcoBlue, BioBlue, bScope®, Delphi-X Observer
• mycology	Study of fungi as branch of biology. Identification and classification	EcoBlue, BioBlue, BioBlue.Lab, bScope®, AP series, EduBlue, StereoBlue
• petrology	Study of the composition and structure of rocks as branch of geology. Identification by means of polarization microscopes	EcoBlue (polarization), BioBlue (polarization), AP series, EduBlue, StereoBlue
• zoology	Animal biology. Study of invertebrates and vertebrates and related branches	EcoBlue, BioBlue, BioBlue.Lab, bScope®, AP series, EduBlue, StereoBlue, MacroZoom

UNIVERSITY LABS FIELD OF APPLICATION

RECOMMENDED MODELS

• agronomy & forestry	Selective breeding of plants, fruit and production of food from plants, wood from trees, fuel. Plant physiology and genetics research	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series, MacroZoom	
anatomopathology	Diagnosis of diseases of organs or tissues. Cytopathology and forensic pathology	BioBlue.Lab, bScope®, iScope®, Oxion, Delphi-X Observer, NexiusZoom, DZ series	
asbestos control	Research of asbestos fibers, environmental protection during restoration of older buildings	iScope® (asbestos and polarization), NexiusZoom, DZ series, Z series	
bacteriology	Study of bacteria as subdivision of microbiology. Identification, classification	BioBlue.Lab, bScope®, iScope®, Oxion, Delphi-X Observer	
Study of chemical processes within living organism. Identification and classification of enzymes and structure of biomolecules		BioBlue.Lab, bScope®, iScope®, Oxion, Delphi-X Observer	
• biomedical	Study of medical microbiology, virology, epidemiology, biomedical engineering	BioBlue.Lab, iScope®, Oxion, Delphi-X Observer	
• biotechnology	Study of living organism in order to make food products, for plant protection (genetically modified organism) and other bio-process engineering. Development of pharmaceutical drugs, genetic testing, enzymes production, biofuels, textile	BioBlue.Lab, bScope®, iScope®, Oxion, Delphi-X Observer, StereoBlue, NexiusZoom, DZ series	
• botany	Study of plants as branch of biology. Plant anatomy and morphology. Plant genetics and ecology. Plant biochemistry	BioBlue.Lab, bScope®, StereoBlue, NexiusZoom, DZ series, MacroZoom	
• cell culture	Controlled growing of cells and tissues, fungal culture and microbiological culture	Delphi-X Inverso, Oxion Inverso, NexiusZoom, DZ series	
• chemistry	Study of the composition and properties of chemicals	iScope® (materials and polarization), Oxion (materials), bScope® (materials), NexiusZoom, DZ series	
• cosmetics	Research, development and testing (safety) of substances for make-up or perfume	iScope® (materials), Oxion (materials), bScope® (materials), NexiusZoom, DZ series	
• cytology	Study of cell structure, function and chemistry. Detection of cellular diseases	BioBlue.Lab, iScope®, Oxion, Delphi-X Observer	
• dermatology	Study and diagnosis, treatment of skin, nails and hair diseases	iScope®, Oxion, NexiusZoom, StereoBlue, DZ series, MacroZoom	
• digital imaging	Observation and analysis of microscope images, save and share captured images and videos	CMEX cameras, CCD cameras, HD cameras, Cooled cameras, EduPad, ProPad	
• electronics	Development, production, assembly and inspection of electronic components or circuitry	iScope® (materials), Oxion (materials), bScope® (materials), StereoBlue, Nexius- Zoom, DZ series, Z series, MacroZoom	
• embryo collection	Embryo collection and transfer in mares, pigs, cows. Quality control	NexiusZoom, DZ series, Z series	

• embryology	Study of gametes, embryos and foetuses	BioBlue.Lab, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• entomology	Study of insects as branch of zoology. Identification and classification of beetles, flies, termites, moths and butterflies, bees, ants, wasps	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series, MacroZoom
• environmental	Monitoring of environmental conditions such as water, atmosphere, ecosystems, soil and pollution	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• fluorescence	Study of living and non living materials with the help of fluorescence markers (fluorochromes)	iScope® (fluorescence), Oxion (fluorescence), Delphi-X Observer (fluorescence), Oxion Inverso (fluorescence), bScope® (fluorescence), DZ series
• food and beverages	Quality and safety controls, before, during and after the production of food and beverages	BioBlue.Lab, bScope®, iScope®, Oxion
• forensics	Analysis of scientific evidence. Toxicology, fingerprints, Forensic anthropology and archeology, forensic botany and entomology	BioBlue.Lab, iScope®, iScope® (materials and polarization), Oxion, Oxion (materials), Oxion Inverted, Oxion Inverted (materials), NexiusZoom, DZ series, Z series
• genetics	Study of genes, heredity in living organisms including bacteria, plants, animals and humans	iScope®, Oxion, Delphi-X Observer, DZ series
• geology, mineralogy	Earth Science; Study of solids, rocks and processes Identification and classification of rocks and minerals	iScope® (materials), Oxion (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series, MacroZoom
• geology, petrology	Identification by means of petrographic microscopy	iScope® (polarization), Delphi-X Observer (polarization), StereoBlue, NexiusZoom, DZ series
• glass industry	Quality control, before, during and after the production of glass and coatings	iScope® (materials), Oxion (materials), Oxion Inverso (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series
• hematology	Study and diagnosis, treatment and prevention of diseases of the blood	iScope®, bScope® (darkfield), iScope® (darkfield), Oxion, Oxion (darkfield)
 histopathology 	Microscopic examination of tissue, diagnosis of diseases	iScope®, Oxion, Delphi-X Observer
• horticulture	Selective breeding of plants and fruit for production of food	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series, MacroZoom
• in vitro fertilization	In vitro fertilization IFV. Quality control of collected egg and sperm	StereoBlue, NexiusZoom, DZ series, Z series
• marine Biology	Study of organisms living in the ocean or seas as branch of biology	bScope®, BioBlue.Lab, iScope®, Oxion
• mechanics	Manufacturing and quality inspection of mechanical parts	Delphi-X Observer (materials), iScope® (materials), Oxion (materials), Oxion Inverso (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series, MacroZoom
• metallurgy	Manufacturing and quality inspection of metallic elements, intermetallic compounds and alloys	Delphi-X Observer (materials), iScope® (materials), Oxion (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series, MacroZoom
• microbiology	Study of microscopic uni-, multi- or acellular small organisms such as protozoa, algae, bacteria and more	iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• mycology	Study of fungi as branch of biology	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series

RECOMMENDED MODELS

	Established of action and of action and actions at the contract of the contrac	:C® (til
• mining	Extraction of minerals for identification, quantitative and qualitative evaluation of minerals	iScope® (materials and polarization), Oxion (materials and polarization), Oxion Inverso (materials), bScope® (materials), StereoBLue, NexiusZoom, DZ series, MacroZoom
neuropathology	Study and diagnosis of diseases in nervous system tissue	Delphi-X Observer, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• oncology	Study and diagnosis, treatment and prevention of cancers	Delphi-X Observer, iScope®, Oxion
ornithology	Study of birds as branch of zoology. Diagnosis of diseases in birds such as competition pigeons	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• paleontology	Study of fossils in order to determinate organisms evolution	iScope® (materials), Oxion (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series, MacroZoom
• paper industry	Production of paper related products. Quality inspection	iScope® (materials), Oxion (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series, MacroZoom
• parasitology	Study of parasites, medical and veterinary	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series, MacroZoom
• pathology	Study and diagnosis of diseases	Delphi-X Observer, iScope®, Oxion
• petrochemical	Research and transformation of crude oil and natural gas	iScope® (materials), Oxion (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series
• petrology	Study of the composition and structure of rocks as branch of geology. Identification by means of polarization	iScope® (polarization), StereoBlue, NexiusZoom, DZ series
pharmaceutics	Development and production of drugs for medication. Quality assurance and inspection of produced products	Delphi-X Observer, iScope® (polarization), StereoBlue, NexiusZoom, DZ series
phytopathology	Study and diagnosis of plant diseases	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• plastics	Development and production of plastics and plastic based compounds. Quality assurance and inspection	iScope® (materials), Oxion (materials), Oxion Inverso (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series
• textile	Development and production of all kinds of textile based products. Quality assurance and inspection	iScope® (materials), Oxion (materials), bScope® (materials), AP series, StereoBlue, NexiusZoom, DZ series, MacroZoom
veterinary medicine	Prevention, diagnosis and treatment of diseases, injuries in animals	BioBlue.Lab, bScope®, iScope®, Oxion, Oxion Inverso, StereoBlue, NexiusZoom, DZ series
• virology	Study and diagnosis of viruses and virus-like agents	Delphi-X Observer, iScope®, Oxion, BioBlue.Lab, bScope®
• water treatment	Production of drinking water and wastewater treatment. Quality control and disease prevention	BioBlue.Lab, bScope®, iScope®, Oxion
• wood production	Wood production for construction material, fuel. Quality control	iScope® (materials), Oxion (materials), Oxion Inverso (materials), bScope® (materials), AP series, StereoBlue, NexiusZoom, DZ series, MacroZoom
• zoology	Animal biology. Study of invertebrates and vertebrates and related branches	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series



LIFE SCIENCE LABORATORIES FIELD OF APPLICATION

RECOMMENDED MODELS

L	۱ŀ	Ė,	SC	.IE	N	C	E	
- 1	ΔF	3.0	R	ΔΤ	O.	R	ΙF	¢

FIELD OF APPLICATION

RECOMMENDED MODELS

• agronomy & forestry	Selective breeding of plants, fruit and production of food from plants, wood from trees, fuel. Plant physiology and genetics research	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series, MacroZoom		
 anatomopathology 	Diagnosis of diseases of organs or tissues. Cytopathology and forensic pathology	Delphi-X Observer, iScope®, bScope®, BioBlue.Lab, Oxion, StereoBlue, NexiusZoom, DZ series		
• bacteriology	Study of bacteria as subdivision of microbiology. Identification, classification	BioBlue.Lab, bScope®, iScope®, Oxion, Oxion Inverso, Delphi-X Observer		
• biochemistry	Study of chemical processes within living organism. Identification and classification of enzymes and structure of biomolecules	BioBlue. Lab, bScope®, iScope®, Oxion		
• biomedical	Study of medical microbiology, virology, epidemiology, biomedical engineering	Delphi-X Observer, iScope®, bScope®, BioBlue.Lab, Oxion		
• biotechnology	Study of living organism in order to make food products, for plant protection (genetically modified organism) and other bioprocess engineering. Development of pharmaceutical drugs, genetic testing, enzymes production, biofuels, textile	Delphi-X Observer, iScope®, bScope®, BioBlue.Lab, Oxion, NexiusZoom, DZ series, MacroZoom		
• botany	Study of plants as branch of biology. Plant anatomy and morphology. Plant genetics and ecology. Plant biochemistry	BioBlue.Lab, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series		
• cell culture	Controlled growth of cells and tissues, fungal culture and microbiological culture	Delphi-X Inverso, Oxion Inverso, NexiusZoom, DZ series		
• chemistry	Study of the composition and properties of chemicals	iScope® (materials and polarization), Oxion (materials), bScope® (materials), NexiusZoom, DZ series		
• cosmetics	Research, development and testing (safety) of substances for make-up or perfume	bScope® (materials), iScope® (materials), NexiusZoom, Oxion (materials), DZ series		
• cytology	Study of cell structure, function an chemistry. Detection of cellular diseases	Delphi-X Observer, iScope®, bScope®, BioBlue.Lab, Oxion		
• dermatology	Study and diagnosis, treatment of skin, nails and hair diseases	iScope®, Oxion, NexiusZoom, StereoBlue, DZ series, MacroZoom		
• digital imaging	Observation and analysis of microscope images, save and captured the images and videos	CMEX cameras, CCD cameras, HD cameras, Cooled cameras, ProPad, MacroZoom		
• embryo collection	Embryo collection and transfer in mares, pigs, cows. Quality control	NexiusZoom, DZ series, Z series		
• embryology	Study of gametes, embryos and fetuses	BioBlue.Lab, bScope®, iScope®, Oxion, NexiusZoom, DZ series, Z series		
• entomology	Study of insects as branch of zoology. Identification and classification of beetles, flies, termites, moths and butterflies, bees, ants, wasps	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series, MacroZoom		
• environmental	Monitoring of environmental conditions such as water, atmosphere, ecosystems, soil and pollution	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series		
• fluorescence	Study of living and non living material with the help of fluorescence markers (fluorochromes)	Delphi-X Observer (fluorescence), iScope® (fluorescence), Oxion (fluorescence), Oxion Inverso (fluorescence), bScope® (fluorescence), DZ series		
• forensics	Analysis of scientific evidence. Toxicology, fingerprints, Forensic anthropology and archeology, forensic botany and entomology	BioBlue.Lab, bScope®, iScope®, Delphi-X Observer, Oxion, Oxion Inverted, NexiusZoom, DZ series, Z series		

• food and beverages	Quality and safety controls, before, during and after the production of food and beverages	BioBlue.Lab, bScope®, iScope®, Oxion
• genetics	Study of genes, heredity in living organism including bacteria, plants, animals and humans	Delphi-X Observer, iScope®, Oxion, DZ series
• hematology	Study and diagnosis, treatment and prevention of diseases of the blood	Delphi-X Observer, iScope®, bScope® (dark filed), iScope® (darkfield), Oxion, Oxion (darkfield), iScope®, Oxion
histopathology	Microscopic examination of tissue, diagnosis of diseases	Delphi-X Observer, iScope®, Oxion
• horticulture	Selective breeding of plants and fruit for production of food BioBlue.Lab, bScope StereoBlue, NexiusZo MacroZoom	
histopathology	Microscopic examination of tissue, diagnosis of diseases	iScope®, Oxion
• in vitro fertilization	In vitro fertilization IVF. Quality control of collected egg and sperm	StereoBlue, NexiusZoom, DZ series, Z series
• marine miology	Study of organisms living in the ocean or seas as branch of biology	iScope®, Oxion, NexiusZoom, DZ series
• microbiology	Study of microscopic uni-, multi- or acellular small organisms such as protozoa, algae, bacteria and more. Identification and classification	Delphi-X Observer, iScope®, Oxion, NexiusZoom, DZ series
• mycology	Study of fungi as branch of biology. Identification and classification	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
neuropathology	Study and diagnosis of diseases in nervous system tissue	Delphi-X Observer, iScope®, Oxion, NexiusZoom, DZ series
• oncology	Study and diagnosis, treatment and prevention of cancers	Delphi-X Observer, iScope®, Oxion
• parasitology	Study of parasites, medical and veterinary	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• pathology	Study and diagnosis of diseases	Delphi-X Observer, iScope®, Oxion
• pharmaceutics	Development and production of drugs for medication. Quality assurance and inspection of produced products	iScope® (polarization), StereoBlue, NexiusZoom, DZ series
• phytopathology	Study and diagnosis of plant diseases	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series, MacroZoom
• veterinary medicine	Prevention, diagnosis and treatment of diseases, injuries on animals	BioBlue.Lab, bScope®, iScope®, Oxion, Oxion Inverso, StereoBlue, NexiusZoom, DZ series
• virology	Study and diagnosis of viruses and virus-such as agents	Delphi-X Observer, BioBlue.Lab, bScope®, iScope®, Oxion
• water treatment	Production of drinking water and wastewater treatment. Quality control and disease prevention	BioBlue.Lab, bScope®, iScope®, Oxion
•zoology	Animal biology. Study of invertebrates and vertebrates and related branches	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series



INDUSTRY FIELD OF APPLICATION RECOMMENDED MODELS

• aerospace	Manufacturing and quality inspection of rockets and space vehicles related parts	iScope® (materials), Oxion (materials), NexiusZoom, DZ series, Z series
• agronomy & forestry	Selective breeding of plants, fruit and production of food from plants, wood from trees, fuel. Plant physiology and genetics research	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series, MacroZoom
asbestos control	Research of asbestos fibers, environmental protection during restoration of older buildings	iScope® (asbestos and polarization), NexiusZoom, DZ series, Z series
automotive	Manufacturing and quality inspection of automotive related parts	iScope® (materials), Oxion Inverso (materials), NexiusZoom, DZ series, Z series
• avionics	Manufacturing and quality inspection of aircraft related parts	iScope® (materials), NexiusZoom, DZ series
biochemistry	Study of chemical processes within living organism. Identification and classification of enzymes and structure of biomolecules	BioBlue.Lab, iScope®, Oxion, NexiusZoom, DZ series
• chemistry	Study of the composition and properties of chemicals	iScope® (materials), Oxion (materials)
• cosmetics	Research, development and testing (safety) of substances for make-up or perfume	bScope® (materials), iScope® (materials), Oxion (materials), NexiusZoom, DZ series
• digital imaging	Observation and analysis of microscope images, save and captured the images and videos	CMEX cameras, CCD cameras, HD cameras, ProPad, MacroZoom
• electronics	Development, production, assembling and inspection of electronic components or circuitry	iScope® (materials), Oxion (materials), NexiusZoom, DZ series, Z series, BE-50 LED, MacroZoom
• environmental	Monitoring of environmental conditions such as water, atmosphere, ecosystems, soil and pollution	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• food and beverages	Quality and safety controls, before, during and after the production of food and beverages	BioBlue.Lab, bScope®, iScope®, Oxion
• forensics	Analysis of scientific evidence. Toxicology, fingerprints, Forensic anthropology and archeology, forensic botany and entomology	BioBlue.Lab, bScope®, bScope® (materials), iScope®, iScope® (materials and polarization), Oxion, Oxion (materials), Oxion Inverted, Oxion Inverted (materials), NexiusZoom, DZ series, Z series
• geology, mineralogy	Earth science that study the solid, rocks and processes. Identification and classification of rocks and minerals	iScope® (materials), Oxion (materials), Oxion Inverso (materials), B+ (materials), StereoBlue, NexiusZoom, DZ series, MacroZoom
• geology, petrology	Identification by means of an petrographic microscope	iScope® (polarization)
• glass industry	Quality control, before, during and after the production of glass and coatings	iScope® (materials), Oxion (materials), Oxion Inverso (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series
horticulture	Selective breeding of plants and fruit for production of food	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series, MacroZoom
• jewelry	Precise manufacturing of very small decorative items such as brooches, rings, bracelets and more	BE-50 LED series, StereoBlue, NexiusZoom, DZ series, Z series

INDUSTRY RECOMMENDED MODELS FIELD OF APPLICATION

• mechanics	Manufacturing and quality inspection of mechanical parts	iScope® (materials), Oxion (materials), Oxion Inverso (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series, MacroZoom
• metallurgy	Manufacturing and quality inspection of metallic elements, intermetallic compounds and alloys	iScope® (materials), Oxion (materials), Oxion Inverso (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series, MacroZoom
• mining	Extraction of minerals Identification, quantitative and qualitative evaluation of minerals	iScope® (materials and polarization), Oxion (materials and polarization), Oxion Inverso (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series
• paper industry	Production of paper related products. Quality inspection	iScope® (materials), Oxion (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series, MacroZoom
• petrochemical	Research and transformation of crude oil and natural gas	iScope® (materials), Oxion (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series
• petrology	Study of the composition and structure of rocks as branch of geology. Identification by means of polarization microscopy	iScope® (polarization), StereoBlue, NexiusZoom, DZ series
• pharmaceutics	Development and production of drugs for medication. Quality assurance and inspection of produced products	iScope® (polarization), StereoBlue, NexiusZoom, DZ series
• plastics	Development and production of plastics and plastic based compounds. Quality assurance and inspection	iScope® (materials), Oxion (materials), Oxion Inverso (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series
• printing industry	Production of relief printing, lithography	iScope® (materials), Oxion (materials), bScope® (materials), AP series, StereoBlue, NexiusZoom, DZ series, MacroZoom
• textile	Development and production of all kinds of textile based products. Quality assurance and inspection	iScope® (materials), Oxion (materials), Oxion Inverso (materials), B+ (materials), AP series, StereoBlue, NexiusZoom, DZ series, MacroZoom
• water treatment	Production of drinking water and wastewater treatment. Quality control and disease prevention	BioBlue.Lab, bScope®, iScope®, Oxion
• wood production	Wood production for construction material, fuel. Quality control	iScope® (materials), Oxion (materials), Oxion Inverso (materials), B+ (materials), AP series, StereoBlue, NexiusZoom, DZ series, MacroZoom



index

	OTHER	EDUCATIO	LIFE SCIENC	MATERIALS
PRODUCT	Р	Α	G	Е
Abbe refractometer	391			
About -				
- differential interference contrast				319
- field of view			253	345
- fluorescence			183	
- microscope basics		21		
- microscope optics			233	
- objectives		15		
- petrological microscopy				327
- stereo microscopes				287
Accessories for microscopy	352			
Adapter guide		104	258	350
AP series		68		
Asbestos research microscopes				294
Autofocus cameras		92	248	340
BE-50 Series				294
BioBlue		22		
BioBlue digital		78	236	
BioBlue.Lab		28	142	
Biological microscopes		8	106	
bScope biological		32	118	
bScope digital		80	238	330
bScope fluorescence			166	
bScope materials				308
CMEX Pro USB-3.0 cameras		90	246	338
CMEX USB-2.0 cameras		88	245	337
CMEX-WIFI camera		96	244	336
Cold light sources	342			
Cooled camera		97	252	344
Delphi-X Inverso biological			152	

	OTHER	EDUCATION	LIFE SCIENCE	MATERIALS SCIEN
PRODUCT	Р	Α	G	Е
Delphi-X Inverso fluorescence			190	
Delphi-X Observer fluorescense			170	
Delphi-X Observer biological			126	
Delphi-X Observer fluorescense			172	
Delphi-X Observer materials				312
Differential interference contrast				311
Digital MacroZoom		86	240	332
Digital microscopes		74	236	330
Digital solutions		72	234	328
Disposables	378			
Dissection instruments	362			
Dissection kits	364			
DZ series			218	282
EcoBlue		16		
Ecoblue digital		76		
EduBlue		48		
EduBlue digital		82		
EduBlue LCD		84		
EduPad		98		
EduZoom		84		
Eyepiece cameras		86		
Field of view			245	331
Fluorescense filter sets			198	
Fluorescense LED light sources			196	
Fluorescense microscopes			158	
Handheld magnifiers	382			
Handheld refractometers	372			
Handheld spectroscopes	348			
High definition cameras		92	248	340

How to keep the optics clean

	OŢ.	EDL	Ë	MA.
PRODUCT	Р	Α	G	Е
How to match camera resolution			243	
How to set up a stereo microscope		57	213	273
Illumination solutions	354			
ImageFocus software		102	256	348
Inverted biological			144	
Inverted fluorescence			182	
Inverted materials				316
iScope biological		38	108	
iScope fluorescence			160	
iScope materials				302
LED cold light sources	344			
LED ring light sources	344			
LED light sources fluorescence			196	
Light sources	340			
MacroZoom		86	240	332
Magnifiers	382			
Measuring microscopes	384			
MicroBlue		10		
MicroBlue digital		74		
Microscope basics		21		
Microscope optics			233	
NexiusZoom ESD				262
NexiusZoom and -EVO		58	204	262
NexiusZoom for gemology				274
Objectives		15		
Other products	380			
Optical instruments	380			
Oxion biological			136	
Oxion fluorescence			178	
Oxion Inverso biological			146	

	OTHE	EDUC	LIFES	MATEI
PRODUCT	Р	Α	G	Е
Oxion Inverso materials				324
Oxion Inverso fluorescence			184	
Oxion materials				320
P series			230	296
PathoScan	396			
Petrological microscopy				319
Polarimeters	392			
Polarization microscopes			106	294
Polarization microscopes advanced				304
Preparation accessories	362			
Prepared slides	366			
Prepared slides Individual	360			
ProPad		100	254	346
Refractometers	386			
Ring lights	344			
sCMEX USB-3.0 camera		91	247	339
Software		102	256	348
Spectroscopes	392			
Stains	379			
StereoBlue		52	214	278
Stereo microscopes		46	202	260
Stereo microscopes (about)				279
Tablet camera		98	254	346
USB 2 cameras		88	245	337
USB 3 cameras		90	246	338
WiFi camera		96	244	336
Z series			224	288





Management System ISO 9001:2015

ID 000003714

The Euromex Quality System is certified according to ISO 9001:2015 and supports our pursuit of continuous improvement and our on-going commitment to provide our world-wide customers assurance of product quality

DISCLAIMER

All information and materials contained in this catalog have been prepared solely for the purpose of providing general information about the products offered by Euromex Microscopen bv. The content of and all information published in this catalog are provided in good faith as a convenience to you and may be used for information purposes only and at all times in accordance with these terms of access

Euromex Microscopen by does not warrant the completeness or accuracy of information obtained from its catalog and does not undertake to update or correct its content or the information and/or materials contained on it on a regular basis

Euromex Microscopen by reserves the right to make improvements and/or changes to (including the removal of) the products described or referred to in the catalog and to delete and/or move any such information at any time and without notice

Euromex is a registered trademark of Euromex Microscopen by

© 2019 Copyright Euromex Microscopen by

HEADQUARTERS

Euromex Microscopen bv

Papenkamp 20

20 Carretera de Barcelona 88, Entresuelo

EUROPEAN SALES OFFICE

Euromex Microscopen Spain, S.L

6836 BD Arnhem Esc. B - Local 9

The Netherlands 08302 Mataró, Spain

Tel: +31 (0) 26 323 22 11 info@euromex.com

Tel: +34 (0) 937 415 609 info@euromex.com

www.euromex.com