

PART 1 MICROSCOPES FOR EDUCATION

PART 2 MICROSCOPES FOR LIFE SCIENC

PART 3 MICROSCOPES FOR INDUSTRY



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euromex **MICROSCOPE COLLECTION** 2023 • 2024

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OTHER OPTICAL PRODUCTS

#### about

## euromex

**EDUCATION | BIOLOGICAL MICROSCOPES** MicroBlue • EcoBlue • BioBlue BioBlue.Lab • bScope • iScope

EduBlue • StereoBlue NexiusZoom • AP series

> **EDUCATION | DIGITAL SOLUTIONS** Digital microscopes • MacroZoom • USB cameras • HD cameras • WiFi cameras Cooled cameras • Tablet cameras • Software • Adapters

**EDUCATION | STEREO MICROSCOPES** 

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

OTHER OPTICAL PRODUCTS Magnifiers & measuring microscopes • Refractometers Polarimeters • Spectroscopes • Pathology Scanner

**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 m<sup>2</sup> 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. Euromex Optics Group BV is a GSI Group Company

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



View the Product Videos on YouTube

## 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

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## education

## biological microscopes



biological microscopes

The Euromex biological BlueLine educational product range is the result of many years of experience and the extensive knowledge of our optical engineers. Input from practice teachers, professors and students in combination with the high-level design and manufacturing capabilities of Euromex have resulted in these high quality instruments

The outstanding optical performance of the ergonomic Euromex BlueLine microscopes enables long productive working sessions for initiation, intermediate and advanced science teaching classes





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## MicroBlue

The modern MicroBlue is an entry-level microscope, especially appreciated when budgets are limited. The basic model comes with a fixed lens condenser and a plain stage

All models with an integrated mechanical stage are supplied with an Abbe condenser. All models are equipped with 35 mm achromatic objectives. The supplied rechargeable AA batteries enable cordless operation



















Monocular model MB.1051



Binocular model MB.1152

#### HIGHLIGHTS

- Entry-level microscopes
- Mono, bino, trino and digital models
- Revolving reversed nosepiece
- Integrated X-Y mechanical stage
- LED and NeoLED™ illumination
- **Cordless operation**
- Ergonomic carrying grip
- 5 Years warranty

#### **SPECIFICATIONS**

#### EYEPIECE(S)

Wide field WF 10x/18 mm secured eyepiece with pointer. The eyepieces of the binocular models are supplied without pointer

#### **HEAD**

Monocular models have a 45° inclined tube. Binocular and trinocular models have 45° inclined tubes, adjustable interpupillary distance between 48 and 75 mm and a  $\pm$  5 diopter adjustment on left tube. All heads are 360° rotatable. Models with an integrated USB-2.0 camera are supplied with a 1.3 MP 1/2.5" CMOS sensor with 1772 x 952 pixels or a 5.0 MP 1/2.8" CMOS sensor with 2560 x 1920 pixels resolution. The trinocular head has a fixed light path beam splitter (50:50) and generates an erect image. The MicroBlue can also be equipped with an LCD screen

#### NOSEPIECE

Revolving nosepiece for three or four reversed objectives on ball bearings

#### **OBJECTIVES 35 MM PARFOCAL**

Achromatic 4x/0.10, 10x/0.25 and S40x/0.65. Models with S60X or S100x oil immersion are also available

The 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, 15 µm per graduation, 3 mm per rotation, total travel range is approximately 15 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control

#### STAGE

All models are supplied with a 115 x 100 mm stage with integrated 55 x 20 mm X-Y mechanical stage, except for the basic model MB.1001(-LCD), which is supplied with a 105 x 105 mm stage and two non-removable clamps

#### ILLUMINATION

All monocular versions are supplied with an adjustable 1 W LED illumination system. The binocular versions are supplied with a replaceable 1 W NeoLED™ illumination system for increased light output. All models are supplied with rechargeable AA batteries with an external 100-240 V battery charger/mains adapter

#### **CAMERA AND SOFTWARE\***

Models with an integrated 5.0 MP camera works are compatible with ImageFocus Plus software and with an integrated 1.3 MP CMOS USB-2.0 camera are compatible with ImageFocus 4. Besides capturing of images and videos this software allows measurements on still and live images and

annotations on captured images. Compatible with Windows 7, 8, 10 and 11, both 32 and 64 bits configurations

#### LCD SCREEN\*

All the MicroBlue LCD microscopes are equipped with a 7" LCD screen. Images can be saved directly to a micro SD card in JPEG format. Screen resolution 1920 x 1080 @ 30 fp, image resolution upto 1844 x 1080 pixels. Videos can be shot in AVI format, resolution 1280 x 720. Basic measurement function (line) with calibration

#### **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**

Supplied with mains adapter-charger, three rechargeable AA batteries, dust cover, user manual and 5 ml immersion oil for models with an S100x objective. Including a white filter. All packed in a polystyrene box

MODELS	Mono	Bino	Trino	Digital mono*	Digital LCD*	Maximum objectives	4/10/S40x objectives	S60x objective	S100x objective	Mechanical X-Ystage	LED	NeoLED™	Batteries
MB.1001	•					3	•				•		•
MB.1051	•					4	•			•			•
MB.1651	•					4	•	•		•	•		•
MB.1151	•					4	•		•	•			•
MB.1052		•				4	•			•		•	•
MB.1652		•				4	•	•		•		•	•
MB.1152		•				4	•		•	•		•	•
MB.1053						4	•			•		•	•
MB.1153			•			4	•		•	•		•	•
MB.1001-LCD						3	•				•		•
MB.1051-LCD					•	4	•			•	•		•
MB.1055-5 (2)				•		4	•			•		•	•
MB.1655-1 (1)						4	•	•		•		•	•
MB.1655-5 (2)				•		4	•	•		•		•	•
MB.1155-1 (1)				•		4	•		•	•		•	•
MB.1155-5 (2)				•		4	•		•	•		•	•

<sup>\*</sup> See chapter 3 for more information





MB.1153











O Digital monocular head Digital LCD head













<sup>(1)</sup> MB.xxxx-1 = model with a integrated 1.3 MP CMOS USB-2.0 camera

<sup>(2)</sup> MB.xxxx-5 = model with a integrated 5.0 MP CMOS USB-2.0 camera

#### ACCESSORIES AND SPARE PARTS

#### **EYEPIECES**

AE.5571

MB.6010	Wide field WF 10x/18 mm eyepiece with pointer			
MB.6010-P	Wide field 10x/18 mm eyepiece with pointer			
MB.6010-M Wide field 10x/18 mm eyepiece with				
	micrometer scale			
MB.6015	Wide field WF 15x/11 mm eyepiece			
MB.6020	Wide field WF 20x/9 mm eyepiece			
MB.6099	Pair of eyecups			

Wide field eyepiece WF 5x/18 mm

#### **OBJECTIVES 35 MM PARFOCAL**

MB.7004	Achromatic 4x/0.10 objective, 35 mm parfocal	
MB.7010	Achromatic 10x/0.25 objective, 35 mm parfocal	PB.5276
MB.7020	Achromatic 20x/0.40 objective, 35 mm parfocal	
MB.7040	Achromatic \$40x/0.65 objective, 35 mm parfocal	
MB.7060	Achromatic S60x/0.85 objective, 35 mm parfocal	
MB.7000	Achromatic S100x/1.25 objective,	
	35 mm parfocal	

#### **CAMERA ACCESSORIES**

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

#### **MISCELLANEOUS**

MB.9710	Frosted filter			
MB.9975	External mains adapter-charger			
	100-240 Vac/5 Vdc (50/60 Hz)			
MB.9981	1 W LED replacement unit			
MB.9991	1 W NeoLED™ replacement unit			
MB.9900	Aluminum transport case			

#### **DISPOSABLES**

PB.5155	Microscope slides 76 x 26 mm, ground edges,
	50 pieces per pack
DR 5157-W	Microscopo slidos 76 x 26 mm, ground odgos

**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

	grinded edges. 10 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 = 1.515 (25 ml)
PB.5274	Isopropyl alcohol 99% (200 ml)

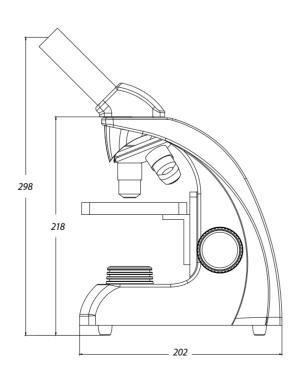
Microscope slides 76 x 26 mm with cavity,

tissue, brush, air blower, cotton swabs Microscope maintenance and servicing kit, 16 pcs: 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

Cleaning kit: lens cleaning fluid, lint free lens

#### **DIMENSIONS**

PB.5160





#### about

## objectives

Most common microscope objectives come in different types:

**Achromatic objectives** Usually contain one or a pair of lenses and correct for color and have a good flat field.

If there are aberrations they occur in the outer area of the image

Contain one or more (achromatic) lens elements and have an extended flat field. Semi plan objectives

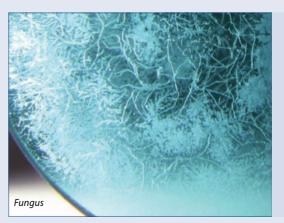
Semi plan objectives have an improved resolution

Plan objectives Correct even better for color and spherical aberration than semi plan objectives.

Plan objectives have an excellent flat field and are recommended in conjunction with a camera

Apochromatic objectives Designed for color and spherical aberration correction on a minimum of three wavelengths.

These objectives offer the best flat field correction



#### **ANTI-FUNGUS TREATED**

Fungus spores are parasitic, travel in the air and can settle inside lenses. High temperatures, humidity and environments that are dark and unventilated encourage fungus growth

The optical components are anti-fungus treated. Nevertheless it is best to minimize the possibility of fungus by storing the microscopes in well-ventilated rooms with moderate temperatures and low humidity





The modern microscopes of the EcoBlue series are especially developed for educational purposes with primary focus on ergonomics and excellent price/quality ratio. These microscopes are supplied with secured eyepieces and adjustable rack stop to prevent damage to sample and objectives























#### **MONOCULAR MODEL EC.1001**

EC.1001

**BINOCULAR MODEL EC.1152** POLARIZATION MODEL EC.1001-P-HLED

#### HIGHLIGHTS

- Monocular, binocular and trinocular models with WF 10x/18 mm eyepiece(s)
- Models with integrated 5 MP CMOS camera
- Models for polarization applications
- Revolving nosepiece with four achromatic objectives
- Coaxial coarse and fine adjustments with rack stop
- Height adjustable Abbe condenser with iris diaphragm and filter holder
- 1 W LED or NeoLEDtm illumination
- Models without X-Y mechanical stage have internal 100-240 Vac power supply. No batteries
- Models with X-Y mechanical stage have rechargeable AA batteries and external 100-240 Vac mains/charger adapter
- Ergonomic stand
- 5 Years warranty



#### EYEPIECE(S)

Wide field WF 10x/18 mm eyepiece with pointer.

The eyepieces of the binocular and trinocular models are supplied without pointer

#### HEAD

Monocular models with 45° inclined tubes. Binocular and trinocular models have 30° inclined tubes. The interpupillary distance is adjustable between 48 and 75 mm. All binocular and trinocular models have a ± 5 diopter adjustment on left tube. All heads are 360° rotatable. Models with an integrated USB-2.0 camera are supplied with a 5.0 MP 1/2.8" CMOS sensor with a resolution of 2560 x 1920 pixels. The trinocular head has a fixed light path beam splitter (50:50) and generates an erect image. The EcoBlue can also be supplied with a discussion head

#### NOSEPIECE

Revolving nosepiece for four objectives on ball bearings. Models for polarization are supplied with swing-out analyzer



#### **OBJECTIVES - 45 MM PARFOCAL**

Achromatic 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 objectives. The S40x, S60x and S100x oil immersion objectives are spring loaded. The HLED-S models for polarization are equipped with semi-plan objectives

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

#### **FOCUSING**

Coaxial coarse and fine adjustments, 200 graduations, 12.5 µm per graduation, 2.5 mm per rotation, total travel range is approximately 15 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives

#### STAGE

Plain 123 x 119 mm stage with two non-removable object clamps (optional EC.9500 attachable 51 x 26 mm X-Y mechanical stage available). Plain 123 x 128 mm stage with integrated 70 x 27 mm X-Y mechanical stage. The models for polarization are supplied with 129 mm circular stage, 360° rotatable, two object clamps and swing-out analyzer mounted on the lamp house



#### **CONDENSER**

Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder. The models for polarization have a rack & pinion adjustment, all other models carry a helicoidal adjustment

#### **ILLUMINATION**

Monocular models are supplied with an adjustable 1 W LED illumination with integrated power supply. Binocular and trinocular models are supplied with an adjustable 1 W NeoLED™ illumination system for increased light output. Models EC.1x51, EC.1x52 and EC.1x53 (x=0, 6 or 1) are supplied with rechargeable AA batteries and an external 100-240 V battery charger/mains adapter

The models for polarization are supplied with H-LED illumination for correct color rendering (very similar to the halogen light spectrum). With an integrated 100-240 V power supply, no batteries

#### **CAMERA AND SOFTWARE**

Models with integrated 5 MP CMOS USB-2.0 camera are supplied with the ImageFocus Plus capture and measurement software. Besides capturing of images and videos, this software allows measurements on still and live images and annotations on captured images. Compatible with Windows 7, 8, 10 and 11, both 32 and 64 bits configurations. See chapter 3 for more information

#### **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**

Supplied with power cord or mains adapter-charger, white filter, dust cover, spare fuse, user manual and 5 ml immersion oil for models with an S100x objective. The EcoBlue models with external mains adapter and X-Y stage (EC.1x5x) are supplied with three rechargeable AA batteries. All packed in a polystyrene box

MODELS (4)	Mono	Bino	Trino	S60x objective	S100x objective	Mechanical X-Y stage <sup>(1)</sup>	LED	NeoLED™	Batteries (2)	Polarization (3)
EC.1001				•	· ·	-				
EC.1101	•				•		•			
EC.1601				•						
EC.1051	•					•			•	
EC.1151					•	•				
EC.1651	•			•		•	•		•	
EC.1152		•			•	•		•	•	
EC.1652		•		•		•		•	•	
EC.1053			•			•		•	•	
EC.1153			•		•	•		•	•	
EC.1001-P-HLED-S	•						•			•
EC.1601-P-HLED-S	•			•						•
EC.1101-P-HLED-S	•				•		•			•
EC.1002-P-HLED-S		•						•		•
EC.1602-P-HLED-S		•		•				•		•
EC.1102-P-HLED-S		•			•			•		•
EC.1003-P-HLED-S			•					•		•
EC.1603-P-HLED-S			•	•				•		•
EC.1103-P-HLED-S			•		•			•		•

<sup>(1)</sup> Integrated mechanical stage with 70 x 27 mm X-Y travel range (2) With an external 100-240 V battery charger/mains adapter

#### ACCESSORIES AND SPARE PARTS

#### **EYEPIECES**

AE.5571

EC.6110

EC.6099

C.6010	WF 10x/18 mm eyepiece	
C.6010-M	WF 10x/18 mm eyepiece with micrometer scale	
C.6010-C	WF 10x/18 mm eyepiece with crosshairs	
C.6015	WF 15x/12 mm eyepiece	CAMI

WF 10x/18 mm eyepiece with micrometer 10/100

Wide field eyepiece WF 5x/18 mm

#### **OBJECTIVES - 45 MM PARFOCAL**

Pair of eyecups

EC.7004	Achromatic 4x/0.10 objective. WD 37.5 mm
EC.7010	Achromatic 10x/0.25 objective. WD 6.8 mm
EC.7020	Achromatic 20x/0.40 objective. WD 2.0 mm
EC.7040	Achromatic S40x/0.65 objective. WD 0.6 mm
EC.7060	Achromatic S60x/0.85 objective. WD 0.185 mm
EC.7000	Achromatic S100x/1.25 oil immersion objective.
	WD 0.195 mm

#### MISCELLANEOUS

MISCELLANEOUS						
EC.9500	Attachable mechanical X-Y stage, translation					
	range 51 x 26 mm, with double Vernier and					
	separate horizontal adjustments knobs					
EC.9710	Frosted white filter					
EC.9981	1 W LED replacement unit					
EC.9991	1 W NeoLED™ replacement unit					
EC.9994	1 W H-LED replacement unit					
EC.9975	External mains/charger adapter					
	100-240 Vac/5 Vdc (50/60 Hz)					
AE.5511	Discussion head without eyepieces. Delivered					
	with two eyepieces when the head is ordered					
	mounted on microscope					
AE.5227	Glass fuses 1 A 250 V, 10 pieces					
AE.9918	Nylon microscope bag, 26 x 18 x 40 cm					

WF = Wide field WD = Working distance

#### POLARIZATION ATTACHMENTS

AE.5152	Simple polarization attachment.		
	Analyzer mounted over eyepiece (rotatable		
	and polarizer Ø 32 mm in filter holder		

#### **ERA ACCESSORIES**

<b>AE.5130</b> Universal SLR camera adapter with 2x pro				
	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				





<sup>(3)</sup> Polarization models are supplied with a 129 mm round stage and semi-plan objectives and H-LED illumination (similar light spectrum as halogen)

<sup>&</sup>lt;sup>(4)</sup> For models with integrated camera, see chapter 3

#### **DISPOSABLES**

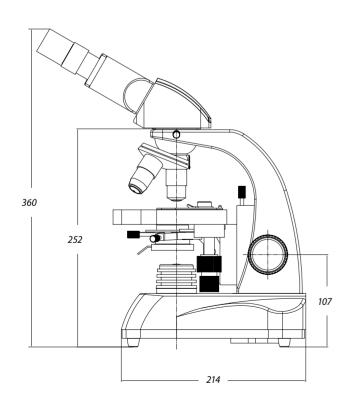
PB.5155	Microscope slides 76 x 26 mm,	PB.5245	Lens cleaning paper, 100 sheets per pack
	ground edges, 50 pieces per pack	PB.5255	Immersion oil, n = 1.515 (25 ml)
PB.5157-W	Microscope slides 76 x 26 mm, ground edges.	PB.5274	Isopropyl alcohol 99% (200 ml)
	White frosted side, 50 pieces per pack	PB.5275	Cleaning kit: lens cleaning fluid, lint free lens
PB.5157-B	Microscope slides 76 x 26 mm, ground edges.		tissue, brush, air blower, cotton swabs
	Blue frosted side, 50 pieces per pack	PB.5276	Microscope maintenance and servicing kit,
PB.5160	Microscope slides 76 x 26 mm with cavity,		16 pcs: cleaning brush, 6 pcs screwdriver set,
	grinded edges. 10 pieces per pack		air blower, 3 pcs Allen key, 1.5, 2, 2.5 mm,
PB.5165	Cover glasses 18 x 18 mm,		lens cleaning fluid 20 ml, cleaning cloth 140

thickness 0.13-0.17 mm, 100 pieces

thickness 0.13-0.17 mm, 100 pieces

Cover glasses 22 x 22 mm,

#### **DIMENSIONS**



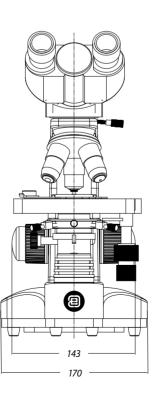


x 140 mm, 100 pcs lens tissue sheets, tube of

in a nice toolbox

maintenance grease, 10 ml bottle of oil, packed





#### about

## microscope basics

A compound microscope consists of a group of lenses (called objective) which focuses a real image of the object inside the microscope. A second group of lenses (called eyepiece) magnifies this image and projects it on the retina of the eye. This compound optical system (objective - eyepiece) together with other mechanical components are the basics of a modern microscope

#### HEAD

The 30° inclined trinocular viewing head is equipped with a 23.2 mm photo port. The Siedentopf head corrects interpupillary distances to the users preference. A beam splitter inside the head divides the light between the eyepieces and the camera with diopter settings

#### THE NOSEPIECE

A rotatable metal turret holding four microscope objectives for precise switching of magnifications. The revolver is mounted reversed for more workspace

#### STAGE

Move the specimen slide in the X or Y direction. Low positioned stage controls prevent fatigue

#### **COARSE AND FINE FOCUSING SYSTEM**

The full metal mechanical system moves the specimen in focus. With rack stop to prevent damage to prepared microscopy slides and objectives

#### MICROSCOPE BASE AND ARM

A large base guarantees the necessary stability of the microscope. The arm includes an integrated carrying grip for easy and safe transportation

#### CORDED AND CORDLESS USE

The supplied rechargeable AA batteries enable the microscope to be used both corded and cordless

#### **DIGITAL MICROSCOPY**

**TECHNICAL** 

**FACTS** 

Modern microscopy uses CMOS, CCD or HD cameras for digital output to computer or HDMI displays. Users can use ImageFocus analysis software to capture, edit, analyze and share microscopy images

#### TRINOCULAR TUBE

The trinocular tube connects cameras used for digital microscopy

#### **EYEPIECES**

The WF 10x/18 mm are Wide Field eyepieces with 10x magnification and 18 mm field number

#### **OBJECTIVES**

Microscope objectives are crucial for determining magnification and resolution of the image. International standards are used during production. Typical objective magnifications are 4x/10x/40x/100x

#### **CONDENSER**

The 1.25 NA condenser's diaphragm maximizes the resolution of the optical system and also allows adjustment of contrast. Color or density filters can be placed in the filter holder

#### **COLLECTOR LENS SYSTEM AND NEOLED™ LIGHT SOURCE**

This lens system maximizes light output. The innovative NeoLED™ design increases the light output even more, while less energy is required. The total system enables higher resolutions, very close to the theoretical diffraction limit of the optics



## **BioBlue**

The modern microscopes of the BioBlue series are especially developed for educational purposes with primary focus on ergonomics and today's quality standards. These microscopes are supplied with secured eyepieces and adjustable rack stop to prevent damage to sample and objectives



























#### **BB.4200 MONOCULAR**

**BB.4200-P-HLED POLARIZATION** 

## HIGHLIGHTS

- WF 10x/18 mm eyepiece(s)
- BioBlue EVO models with WF 10x/20 mm eyepieces and Köhler NeoLED™ illumination
- Models with integrated 5.0 MP CMOS camera or with a 7" LCD screen
- Models for polarization applications
- Reversed nosepiece for four semi plan objectives
- Integrated X-Y mechanical stage
- Coaxial coarse and fine adjustments with rack stop
- Height adjustable Abbe condenser with iris diaphragm and filter holder
- Monocular models with 1 W LED illumination
- Binocular and trinocular models supplied with 1 W NeoLED™ illumination for increased light output
- LED models supplied with rechargeable AA batteries and integrated power supply
- Ergonomic stand
- 10 Years warranty

#### **SPECIFICATIONS**

#### EYEPIECE(S)

BB.4260

Wide field WF 10x/18 mm secured eyepiece with pointer for monocular models. The eyepieces of the binocular and trinocular models are supplied without pointer. The BioBlue EVO models are supplied with WF 10x/20 mm eyepieces

#### **HEAD**

Monocular models with 45° inclined tubes. Binocular and trinocular models have 30° inclined tubes, interpupillary distance is adjustable between 48 and 75 mm and equipped with a  $\pm$  5 diopter adjustment on the left tube. All heads are 360° rotatable and secured with a screw. The BioBlue microscope can also be supplied with a discussion head. The trinocular head has a fixed light path beam splitter (50:50) and generates an erect image. Models with an integrated USB-2.0 camera are supplied with a 5.0 MP 1/2.8" CMOS sensor with a resolution of 2560 x 1920 pixel

#### NOSEPIECE

Reversed quadruple nosepiece on ball bearings. Models for polarization are supplied with a swing-out analyzer

#### **OBJECTIVES - 45 MM PARFOCAL**

All models are supplied with semi plan 4x/0.10, 10x/0.25 and S40x/0.65 objectives. Models with an S60x/0.85 or S100x/1.25 oil immersion objective are also available. The 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 with 200 graduations. Precision 2 µm per graduation, 0.4 mm per rotation. Total travel range is approximately 23 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control

#### STAGE

130 x 130 mm with mechanical 70 x 28 mm X-Y translation stage except for models BB.4200 and BB.4205. These models have a 120 x 120 mm plain stage supplied with two nonremovable object clamps. The models for polarization are

supplied with 129 mm circular stage, 360° rotatable and two object clamps

> 360° rotatable circular stage for polarization



#### **POLARIZATION EQUIPMENT**

The swing-out analyzer is mounted in a slider under the head. The rotatable 360° polarizer fits on the collector lamp

#### **CONDENSER**

Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder

#### ILLUMINATION

Binocular and trinocular models are supplied with an adjustable 1 W NeoLED™ illumination system for increased light output. Monocular models have a standard adjustable 1 W LED illumination. The models for polarization are supplied with H-LED illumination for correct color rendering (very similar to the halogen light spectrum). The EVO models are equipped with Köhler NeoLED™ illumination. All BioBlue microscopes are supplied with rechargeable AA batteries and integrated 100-250 Vac power supply for cordless operation



The ergonomic carrying grip enables easy transportation

#### **CAMERA AND SOFTWARE**

Models with an integrated 5 MP CMOS USB-2.0 camera are supplied with the ImageFocus Plus software. Besides capturing images and videos, this software also allows measurements on still and live images and annotations on captured images. Compatible with Windows 7, 8, 10 and 11, both 32 and 64 bits configurations

#### **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

Supplied with power cord, three rechargeable AA batteries, dust cover, a spare fuse, white filter, user manual and 5 ml immersion oil for models with S100x objective. Supplied with a white filter. Polarization models are supplied with a crosshairs eyepiece. All packed in a polystyrene box



Monocular head



Binocular head



Trinocular head



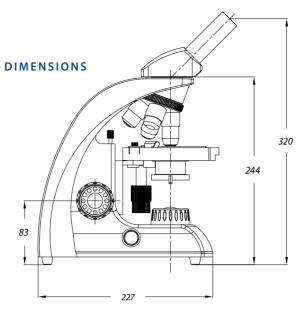
Discussion head

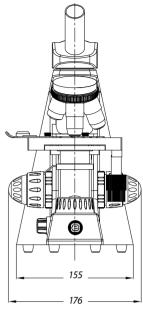


Digital heads



LCD head





MODELS	Mono	Bino	Trino	Digital	4/10/40x SMP objectives	S60x SMP objective	S100x SMP objective	Mechanical X-Y stage	LED	Neo- LED™	Köhler illumination <sup>(1)</sup>	Polarization (2)
BB.4200	•				•				•			
BB.4220	•				•			•	•			
BB.4240	•				•	•		•	•			
BB.4250	•				•		•		•			
BB.4260		•			•		•	•		•		
BB.4260-E		•			•		•	•		•	•	
BB.4263		•			•	•		•		•		
BB.4243			•		•	•				•		
BB.4253			•		•		•	•		•		
BB.4253-E			•		•		•	•		•	•	
BB.4205	•			•	•				•			
BB.4225	•			•	•				•			
BB.4245	•			•	•	•		•	•			
BB.4255	•			•	•		•	•	•			
BB.4267		•		•	•		•	•		•		
BB.4269		•		•	•	•		•		•		
BB.4200-LCD				•(3)	•				•			
BB.4220-LCD				•(3)	•			•	•			
BB.4220-P-HLED	•				•				•			•
BB.4240-P-HLED	•				•		•		•			•
BB.4250-P-HLED	•				•	•			•			•
BB.4261-P-HLED		•			•					•		•
BB.4263-P-HLED		•			•	•				•		•
BB.4260-P-HLED		•			•		•			•		•
BB.4241-P-HLED			•		•					•		•
BB.4243-P-HLED			•		•	•				•		•
BB.4253-P-HLED			•		•		•			•		•

<sup>(1)</sup> EVO models are supplied with WF 10x/20 mm eyepieces and Köhler NeoLED(tm) illumination

<sup>(2)</sup> Polarization models are supplied with H-LED illumination -

very similar light spectrum to the halogen illumination - and an eyepiece with crosshairs

<sup>(3)</sup> Models with a 7" LCD screen, 1920x1080 pixels, SD card for images and video

#### ACCESSORIES AND SPARE PARTS

#### **EYEPIECES**

AE.5571	Wide field eyepiece WF 5x/18 mm
AE.5572	Wide field eyepiece WF 10x/18 mm
AE.5572-E	Wide field eyepiece WF 10x/20 mm
AE.5573	Wide field eyepiece WF 15x/12 mm
AE.5573-E	Wide field eyepiece WF 15x/12 mm
	for BioBlue EVO

AE.5574 Wide field micrometer eyepiece 10 mm/100 AE.5581 Wide field eyepiece WF 10x/18 mm with pointer AE.5581-E Wide field eyepiece WF 10x/20 mm with pointer for BioBlue EVO

AE.5582 Wide field eyepiece WF 20x/11.5 mm AE.5582-E Wide field eyepiece WF 20x/12.5 mm for BioBlue EVO

AE.5365 Eyecup for eyepiece

AE.5365-E Pair of eyecups for eyepieces

Stage micrometer 1 mm/ 100 parts

#### **OBJECTIVES - 45 MM PARFOCAL**

AE.5591	Semi plan objective 4x/0.10. WD 37.5 mm
AE.5593	Semi plan objective 10x/0.25. WD 6.54 mm
AE.5594	Semi plan objective 20x/0.40. WD 1.2 mm
AE.5597	Semi plan objective S40x/0.65. WD 0.68 mm
AE.5599	Semi plan objective S60x/0.75. WD 0.2 mm
AE.5601	Semi plan objective S100x/1.25 oil immersion.
	WD 0.22 mm

BioBlue microscope with polarization kit



#### **MISCELLANEOUS**

AE.5511	Discussion head without eyepieces. Delivered
	with two eyepieces when the head is ordered
	mounted on microscope
AE.9918	Nylon microscope bag, 26 x 18 x 40 cm
BB.4300	Aluminum case
BB.9602	Analyzer in slider
AE.9981	1 W LED replacement unit
AE.9981-H	1W LED (halogen color type) replacement unit
	(only for monocular versions)
AE.9991	1 W NeoLED™ replacement unit
AE.9991-H	1 W NeoLED replacement unit (only for binocular
	and trinocular versions)
AE5227	Fuse 1 A 250 V, 10 pieces

#### **CAMERA ACCESSORIES**

	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 ad	Other T2 adapters on request			

AE.5130 Universal SLR camera adapter with 2x projection

DISPOSA	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.5160	Microscope slides 76 x 26 mm with cavity,			
	grinded edges. 10 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 = 1.515 (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			

Microscope maintenance and servicing kit, PB.5276 16 pcs: 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

#### **POLARIZATION ATTACHMENTS**

Not suitable for the BioBLue EVO models

AE.5151	Simple polarization attachment.
	Polarizer mounted over eyepiece and
	analyzer 32 mm diameter in filter holder

AE.5152 Polarization attachment. Analyzer mounted over eyepiece and small (75 x 50 mm) 360° rotatable stage with built-in polarizer to be mounted on X-Y stage

AE.5155 Polarization kit with analyzer in slider and small rotatable (75 x 50 mm) stage with two clamps to be mounted on X-Y stage. Polarization filter to be mounted on lamphouse

AE.5155-P Polarization kit with analyzer in slider and small rotatable (100 x 65 mm) stage with two clamps to be mounted on plain stage. Polarization filter to be mounted on lamphouse

AE.5156 Simple polarization kit with analyzer in slider and polarization filter to be mounted on lamphouse

AE.5158 Polarization kit with analyzer in slider and small rotatable (75 x 50 mm) stage with two clamps to be mounted on X-Y stage. Rotatable 360° polarization filter to be mounted on lamphouse

AE.5158-P Polarization kit with analyzer in slider and small rotatable (100 x 65 mm) stage with two clamps to be mounted on plain stage. 360° Rotatable polarization filter to be mounted on lamphouse

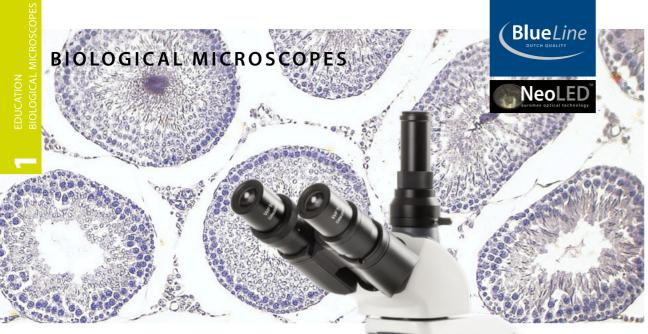












## BioBlue.Lab

The BlueLine flagship BioBlue.Lab is an instrument that precisely matches the highest expectations of microscopy users. All models are equipped with a NeoLED™ illumination system and are available in binocular and trinocular versions



















BB.1152-PLi

BB.1153-PLi 448 (h) x 205 (w) x 260 mm (d) | 5.6 kg

#### HIGHLIGHTS

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



#### **SPECIFICATIONS**

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

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

#### **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  $\pm 5$  diopter adjustment on left tube. All heads are 360° rotatable and secured with a screw. The trinocular head has a fixed light path beam splitter (50:50) and generates an erect image

#### NOSEPIECE

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

#### **OBJECTIVES - 45 MM PARFOCAL**

BioBlue.Lab microscopes are equipped with plan and plan IOS 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

#### **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

#### 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 a white filter

#### **ILLUMINATION**

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

#### **ANTI-THEFT SLOT**

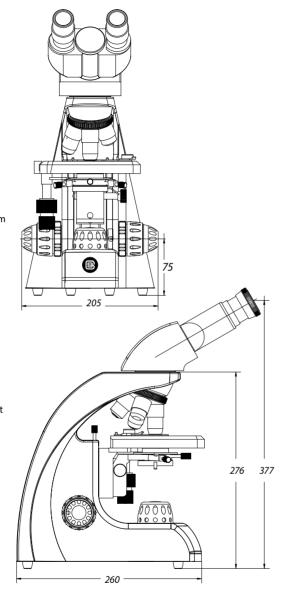
At the back of the microscope a Kensington Security slot is placed, which can be used to secure the instrument from theft

#### **PACKAGE CONTENT**

All packed in a polystyrene box

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

#### **DIMENSIONS**



MODELS	Binocular	Trinocular	4x/10x/S40x/S100x plan objectives	4x/10x/S40x/S100x plan IOS objectives	Rackless mechanical stage	NeoLED™
BB.1152-PL	•		•		•	•
BB.1153-PL		•	•		•	•
BB.1152-PLi	•			•	•	•
BB.1153-PLi						•

#### ACCESSORIES AND SPARE PARTS

#### **EYEPIECES**

BB.6110	WF 10x/22 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

**BB.6010** WF 10x/20 mm eyepiece, 30 mm tube

#### **OBJECTIVES - 45 MM PARFOCAL**

BB.8804	Plan 4x/0.10 objective. WD 17.92 mm
BB.8810	Plan 10x/0.25 objective. WD 2.04 mm
BB.8820	Plan 20x/0.40 objective. WD 1.20 mm
BB.8840	Plan S40x/0.65 objective. WD 0.65 mm
BB.8860	Plan S60x/0.80 objective. WD 0.19 mm
BB.8800	Plan S100x/1.25 oil immersion objective.
	WD 0.18 mm

BB.7204	Plan 4x/0.10 IOS objective. WD 7.18 mm
BB.7210	Plan 10x/0.25 IOS objective. WD 4.80 mm
BB.7220	Plan 20x/0.40 IOS objective,. WD 5.27 mm
BB.7240	Plan S40x/0.65 IOS objective. WD 0.68 mm
BB.7260	Plan S60x/0.85 IOS objective. WD 0.50 mm
BB.7200	Plan S100x/1.25 oil immersion IOS objective.
	WD 0.20 mm

WD = Working distance

#### **MISCELLANEOUS**

Analyzer in slider, Ø 25 mm. Fits in nosepiece
Polarization filter, Ø 32 mm. Fits in filter holder
Köhler attachment
3 W NeoLED™ replacement unit
White filter Ø 32 mm. Fits in filter holder
Fuse 1 A 250 V, 10 pieces
Aluminum case
Nylon bag for BioBlue.Lab, $58(h) \times 32(w) \times 24(d)$

#### **CAMERA ACCESSORIES**

AE.5130	Universal SLR camera adapter with 2x projecti
	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

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

#### DISPOSABLES

	50 pieces per pack
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.5160	Microscope slides 76 x 26 mm with cavity,
	grinded edges. 10 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 = 1.515 (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, 16 pcs:
	cleaning brush, 6 pcs screwdriver set, air blower,
	3 pcs Allen key, 1.5, 2, 2.5 mm, lens cleaning fluid

For phase contrast attachments and accessories see chapter 4

bottle of oil, packed in a nice toolbox

20 ml, cleaning cloth 140 x 140 mm, 100 pcs lens

tissue sheets, tube of maintenance grease, 10 ml





The well-equipped, versatile and evolutive microscopes of the bScope® series are intensively used in secondary schools, universities, small to mid-sized laboratories and for veterinary applications

Besides an excellent ergonomic design, these robust and attractively priced microscopes are available in several configurations for brightfield and phase contrast observation with HWF 10x/20 mm eyepieces























BS.1153-EPLi

**BS.1153-XXX TRINOCULAR** 

#### **HIGHLIGHTS**

- Versatile and evolutive microscopes
- Monocular, binocular and trinocular models
- Digital models available
- HWF 10x/20 mm evepieces
- Reversed ball-bearing quadruple or quintuple nosepiece
- E-plan, plan, E-plan IOS and plan IOS objectives
- E-plan phase, E-plan phase IOS, plan phase IOS objectives
- Integrated rackless X-Y mechanical stage
- 3 W NeoLED™ adjustable illumination system
- Integrated carrying grip
- Cable Storage System and anti-theft system
- 10 Years warrantv

#### SPECIFICATIONS

#### EYEPIECE(S)

BS.1152-PLi

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

BS.1151-EPL

#### **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 both tubes in a high (431 mm) and in a low position (377 mm). The trinocular head comes with a Ø 23.2 mm tube, ensuring a maximum of flexibility. It has a fixed light path beam splitter (20:80) and generates an erect image

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 3)

#### NOSEPIECE

Revolving and reversed ball-bearing quadruple or quintuple nosepiece

#### **OBJECTIVES - 45 MM PARFOCAL**

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 highly 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 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 and soft-close removable specimen holder. The rackless stage has no protruding parts, enables 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

#### **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 lifetime

#### KÖHLER ILLUMINATION

A Köhler illumination 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 AA 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



Swing-out Abbe condenser 0.9/1.25 NA

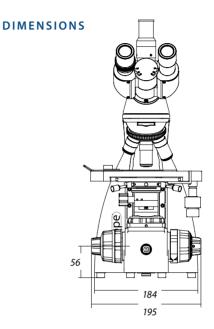


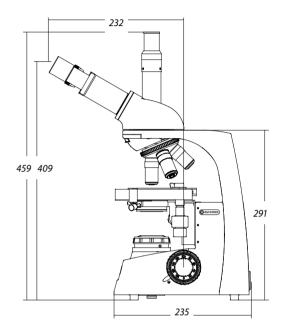
Ergonomic carrying grip for easy transportation

#### **PACKAGE CONTENT**

Smart polystyrene packaging ensures a low environmental footprint while maintaining a maximum of 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





#### **BSCOPE® FOR BRIGHTFIELD**

MODELS	Mono	Bino	Trino	Digital **	HWF 10x/20 mm eyepieces	Quadruple nosepiece plan 4/10/ S40/S100x	Quadruple nosepiece E-plan 4/10/ S40/S100x	Quadruple nosepiece plan IOS 4/10/540/ S100x	•	Quintuple nosepiece plan IOS 4/10/S40/ S100x	Neo- LED™	2-position swiveling ergo head
BS.1151-EPL	•				•		•					
BS.1152-EPL					•		•					
BS.1153-EPL			•		•		•					
BS.1152-EPLi									•		• *	•
BS.1153-EPLi			•						•		• *	•
BS.1157-EPLi				•	•				•		• *	•
BS.1151-PL	•				•	•						
BS.1152-PLi					•					•	• *	•
BS.1153-PLi			•		•					•	• *	•
BS.1157-PLi				•	•					•	• *	•
BS.1152-PLi/4N		•			•			•			• *	•
BS.1153-PLi/4N			•		•			•			• *	•

All models are equipped with a 152/197 x 131 mm stage with integrated 75 x 36 mm X-Y rackless mechanical stage \* Models are equipped with Köhler NeoLEDtm

#### ACCESSORIES AND SPARE PARTS

#### **EYEPIECES**

BS.6010	HWF 10x/20 mm eyepiece, Ø 23.2 mm tube	BS.8204	E-plan EPLi 4x/0.10 IOS objective. WD 18.9 mm
BS.6010-P	HWF 10x/20 mm with pointer, Ø 23.2 mm tube	BS.8210	E-plan EPLi 10x/0.25 IOS objective. WD 5.95 mm
BS.6010-C	HWF 10x/20 mm eyepiece with crosshairs,	BS.8220	E-plan EPLi 20x/0.40 IOS objective. WD 2.61 mm
	Ø 23.2 mm tube	BS.8240	E-plan EPLi S40x/0.65 IOS objective. WD 0.78 mm
BS.6010-CN	HWF 10x/20 mm eyepiece, Ø 23.2 mm tube	BS.8200	E-plan EPLi S100x/1.25 IOS objective. WD 0.36 mm
	with 10/100 micrometer and crosshairs		
BS.6012	WF 12.5x/14 mm eyepiece, Ø 23.2 mm tube	BS.8404	Plan PLi 4x/0.10 IOS objective. WD 21.0 mm
BS.6015	WF 15x/11 mm eyepiece, Ø 23.2 mm tube	BS.8410	Plan PLi 10x/0.25 IOS objective. WD 5.0 mm
BS.6020	WF 20x/11 mm eyepiece, Ø 23.2 mm tube	BS.8420	Plan PLi 20x/0.40 IOS objective. WD 8.8 mm
BS.6099	Pair of eyecups for BS.6010	BS.8440	Plan PLi S40x/0.65 IOS objective. WD 0.66 mm
BS.6099-S	Pair of eyecups for BS.6012 and BS.6015	BS.8460	Plan PLi S60x/0.85 infinity corrected IOS
			objective. WD 0.46 mm
OBJECTI	VES - 45 MM PARFOCAL	BS.8400	Plan PLi S100x/1.25 IOS objective. WD 0.36 mm
BS.7104	E-plan EPL 4x/0.10 objective. WD 37.0 mm	WD = Work	ing distance

OBJECTI	VES - 45 MM PARFOCAL
BS.7104	E-plan EPL 4x/0.10 objective. WD 37.0 mm
BS.7110	E-plan EPL 10x/0.25 objective. WD 6.61 mm
BS.7120	E-plan EPL 20x/0.40 objective. WD 1.85 mm
BS.7140	E-plan EPL S40x/0.65 objective. WD 0.64 mm
BS.7160	E-plan EPL S60x/0.85 objective. WD 0.20 mm
BS.7100	E-plan EPL S100x/1.25 objective. WD 0.19 mm
86.521	Plan PL S100x/1.25 oil immersion objective with
	built-in iris diaphragm. WD 0.33 mm
BS.7204	Plan PL 4x/0.10 objective. WD 17.9 mm
BS.7210	Plan PL 10x/0.25 objective. WD 8,8 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.7260	Plan PL S60x/0.85 objective. WD 0.25 mm
BS.7200	Plan PL S100x/1.25 oil immersion objective. WD
	0.33 mm
BS.7510	E-plan phase EPLPH 10x/0.25 objective.
	WD 5.95 mm
BS.7520	E-plan phase EPLPH 20x/0.40 objective.
	WD 2.61 mm

E-plan phase EPLPH S40x/0.65 objective.

E-plan phase EPLPH S100x/1.25 objective.

WD 0.66 mm

WD 0.36 mm

#### **CONDENSERS**

Abbe condenser 1,25 NA with slot for darkfield
and phase contrast sliders
Darkfield stop for BS.9102 condenser
Swing-out Abbe condenser 0.9/1.25 NA
Phase contrast kit with Abbe condenser with
slot for slider. Plan PLPHi phase S40x contrast
objectives, slider with 40x annuli only, telescope
and green filter
Slider with phase contrast annuli 40x. Needs
BS.9102 condenser with slot

#### **ATTACHMENTS**

BS.9647	Polarizer for polarization Ø 16 mm for slider
	under bScope head
BS.9651	Polarization attachment for lamphouse of
	bScope with 360° scale
BS.9660	Polarization kit: analyzer under head and
	polarizer on lamphouse
AE.5152-N	Small rotatable stage to be used with BS.9660
BS.9880	Köhler attachment

#### **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

#### **MISCELLANEOUS**

BS.9577-L	Add-on price for left handed mechanical sta
BS.9870	Mirror attachment for bScope
BS.9900	Aluminum transport case
AE.9919	Nylon bag for bScope. 58(h) x 32(w) x 24(d)
BS.9993	NeoLED™ replacement unit
AE.1370	Set of rechargeable AA batteries, 3 pieces
AE.5226	Glass fuses 3A 250V, 10pcs

#### DISDOSABLES

PB.5274

DISPO	DSABLES
PB.5155	Microscope slides 76 x 26 mm, ground edges,
	50 pieces per pack
PB.5157	<b>-W</b> Microscope slides 76 x 26 mm, ground edges.
	White frosted side, 50 pieces per pack
PB.5157	<b>-B</b> Microscope slides 76 x 26 mm, ground edges.
	Blue frosted side, 50 pieces per pack
PB.5160	Microscope slides 76 x 26 mm with cavity,
	grinded edges. 10 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 = 1.515



Isopropyl alcohol 99% (200 ml)

AE.5152-N, small rotatable stage

PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue/paper, brush, air blower, cotton swabs PB.5276 Microscope maintenance and servicing kit, 16 pcs: 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

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

140 mm, 100 pcs lens tissue sheets, tube of

For phase contrast attachments and accessories see chapter 4





CSS – Cable Storage System

BS.7540

BS.7500



The iScope® microscopes exceed today's standard, as they provide more comfort and convenience for microscopists with ergonomic features such as height adjustable eye tubes and a large rackless stage with double slide holder. The modern design and compact size of the iScope® microscopes allow more working space, safer operation and enable easy storage

The iScope® series is available in various configurations, suitable for high schools, universities, and Life and Biomedical Sciences. Observation methods such as

brightfield, phase contrast, cardioid mirror darkfield, basic polarization and fluorescence are available























480 (h) x 210 (w) x 255 (d) mm | 9.0 kg

IS.1153-PLi



#### HIGHLIGHTS

- EWF 10x/22 mm and EWF10x/20 mm eyepieces
- Binocular and trinocular models
- Optional multiheads
- Optional tilting head
- Quintuple reversed nosepiece
- E-plan, plan and plan phase objectives
- E-plan, plan and plan phase infinity corrected IOS objectives
- 156 x 138 mm stage or 187/230 x 140 mm rackless stage
- Intensity adjustable 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) 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: the 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 HEADS**

The iScope® can be supplied with two heads in a face-to-face configuration, allowing simultaneous observation by two operators. The Ø 30 mm tubes of the head are equipped with EWF 10x/20 mm eyepieces. Both heads have two diopter adjustments. Only available for the model with plan infinity corrected objectives (IS.1154-PLi/T). The face-to-face head is equipped with a 2-color laser pointer



#### **MULTIHEAD SYSTEM**

The iScope® can be extended with a unique multihead system for in total 2, 3 or 5 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. Each extra viewing binocular head is equipped with extended wide field plan EWF 10x/22 mm eyepieces (references: IS.1156-PLi-x, x = total number of heads)

#### **OBJECTIVES - 45 MM PARFOCAL**

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	20x/0.40*	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

<sup>\*</sup> optional

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

#### **NOSEPIECE**

Revolving quintuple reversed nosepiece for a maximum of five 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 is protected against marks and scratches with a very tough ceramic surface. 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

#### **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

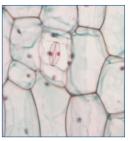
#### ILLUMINATION

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

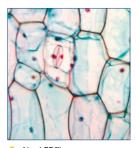
#### **ICARE SENSOR**

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. All packed in polystyrene boxes





#### ISCOPE® FOR LIFE SCIENCE (FINITY MODELS)

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.1153-PLPH		•	•	•		•	•	•

#### ISCOPE® FOR LIFE SCIENCE (INFINITY MODELS)

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

<sup>\*</sup>Two tubes with diopter adjustments

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

MODELS	Bino	Photo attachment	Phase contrast	EWF 10x22 mm	E-plan IOS 4x/10x/ 40x/ 100x objectives	Plan IOS 4x/10x/40x/ 100x objectives	Plan phase IOS 10x/20x/ 40x/ 100x 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				•			•	•		•

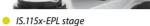
#### ISCOPE® FOR LIFE SCIENCE (MULTIHEAD SYSTEMS)

MODELS	Total users	Binocular	Trinocular	EWF 10x20 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 (FACE-TO-FACE DUAL HEAD SYSTEM)

MODEL	Total users	Binocular EWF 10x/20 mm	Trinocular EWF 10x/20 mm	Plan IOS 4x/10x/ 40x/100x objectives	Mechanical rackless stage	iCare sensor	Köhler LED
IS.1154-PI i/T	2	1x	1x	•	•		







IS.115x-PLi rackless stage

#### ACCESSORIES AND SPARE PARTS

EYEPIEC	ES	OBJEC.	TIVES - 45 MM PARFOCAL
IS.6010	EWF 10x/20 mm eyepiece (Ø 23.2 mm tube)	IS.7104	E-plan EPL 4x/0.10 objective. WD 15.2 mm
IS.6010-P	EWF 10x/20 mm eyepiece with pointer	IS.7110	E-plan EPL 10x/0.25 objective. WD 5.5 mm
	(Ø 23.2 mm tube)	IS.7120	E-plan EPL 20x/0.40 objective. WD 3.5 mm
IS.6010-C	EWF 10x/20 mm eyepiece with crosshairs	IS.7140	E-plan EPL S40x/0.65 objective. WD 0.45 mm
	(Ø 23.2 mm tube)	IS.7160	E-plan EPL S60x/0.85 objective. WD 0.19 mm
IS.6010-CM	EWF 10x/20 mm eyepiece with 10/100	IS.7100	E-plan EPL S100x/1.25 objective. WD 0.13 mm
	micrometer and cross (Ø 23.2 mm tube)		
IS.6015	WF 15x/16 mm eyepiece (Ø 23.2 mm tube)	IS.7710	Plan PLPH 10x/0.25 phase contrast objective.
IS.6099	Pair of eyecups, Ø 23.2 mm tube		WD 12.2 mm
		IS.7720	Plan PLPH 20x/0.40 phase contrast objective.
IS.6210	EWF 10x/22 mm eyepiece (Ø 30mm tube)		WD 5 mm
IS.6210-C	EWF 10x/22 mm eyepiece with crosshairs	IS.7740	Plan PLPH S40x/0.65 phase contrast objective.
	(Ø 30 mm tube)		WD 0.37 mm
IS.6210-P	EWF 10x/22 mm eyepiece with pointer	IS.7700	Plan PLPH S100x/1.25 oil phase contrast
	(Ø 30 mm tube)		objective. WD 0.13 mm
IS.6210-CM	EWF 10x/22 mm eyepiece with 10/100		
	micrometer and crosshairs (Ø 30 mm tube)	IS.8804	E-plan EPLi 4x/0.10 IOS objective. WD 15.4 mm
IS.6212	WF 12.5x/17 mm eyepiece (Ø 30 mm tube)	IS.8810	E-plan EPLi 10x/0.25 IOS objective. WD 5.8 mm
IS.6215	WF 15x/16 mm eyepiece (Ø 30 mm tube)	IS.8840	E-plan EPLi S40x/0.65 IOS objective. WD 0.43 mm
IS.6215-CM	WF 15x/16 mm eyepiece with 10/100	IS.8800	E-plan EPLi S100x/1.25 IOS objective. WD 0.13 mm
	micrometer and crosshairs (Ø 30 mm tube)		
IS.6220	WF 20x/12 mm eyepiece (Ø 30 mm tube)	IS.7202	Plan PLi 2x/0.05 IOS objective, WD 18.3 mm. Best
IS.6299	Pair of eyecups for infinity models (Ø 30 mm tube)		to be used together with swing-out condenser

IS.7204	Plan PLi 4x/0.10 IOS objective. WD 15.4 mm
IS.7210	Plan PLi 10x/0.25 IOS objective. WD 10 mm
13.7210	Plant PLI 10x/0.23 103 objective. WD 10 mm
IS.7220	Plan PLi 20x/0.40 IOS objective. WD 5.1 mm
IS.7240	Plan PLi S40x/0.65 IOS objective. WD 0.54 mm
IS.7260	Plan PLi S60x/0.85 IOS objective. WD 0.14 mm
IS.7200	Plan PLi S100x/1.25 IOS objective. WD 0.13 mm
IS.8910	Plan PLPHi 10x/0.25 phase contrast IOS.
	WD 10.2 mm
IS.8920	Plan PLPHi 20x/0.40 phase contrast IOS.
	WD 5.1 mm
IS.8940	Plan PLPHi S40x/0.65 phase contrast IOS.

Plan PLPHi S100x/1.25 oil phase contrast IOS.

#### **CONDENSERS**

**IS.8900** 

WD 0.5 mm

WD 0.13 mm

15.9102	Standard Abbe condenser 1.25 NA with s
	darkfield and phase contrast sliders
IS.9105	Swing-out 0.9/1.25 N.A. condenser
IS 9170	Slider with darkfield stop

#### 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 23.2 mm tube
IS.9190	Slider with phase contrast annuli for 10x and
	S40x phase contrast objective
IS.9192	Slider with phase contrast annuli for 20x and
	S100x phase contrast objective
IS.9194	Slider with phase contrast annuli for S40x phase

#### **FILTERS**

IS.9600	Polarization filter 45 mm for lamphouse
IS.9601	Polarization set: simple rotating polarizer
	for lamphouse and fixed polarizer mounted
	under head
IS.9626	Polarization filter for mounting under the head
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.9501-ADD

IS.4300

IS.9880

Stage with ergonomical low-positionned X-Y
adjustments of mechanical stage. Right handed
Add-on price, only with new microscopes
Aluminum transport case for iScope

AE.3684 Glass fuses 500 mA 250 V, 10 pieces SL.5500 NeoLED™ replacement unit

Köhler attachment



• IS.9501-ADD Stage with ergonomical low-positionned X-Y adjustments

#### **CAMERA ACCESSORIES**

AE.5130	Universal SLR adapter with built-in 2x lens for	PB.5168	Cover glasses 22 x 22 mm, 0.13-0.17 mm,		
	standard 23.2 mm tube. Needs T2 adapter		100 pieces		
AE.5025	T2 adapter for Nikon D SLR digital camera	PB.5245	Lens cleaning paper, 100 sheets per pack		
AE.5040	T2 adapter for Canon EOS SLR digital camera	PB.5255	Immersion oil, 25 ml. Refraction index $n = 1.515$		
		PB.5274	Iso propyl alcohol 99%, 200 ml		
DISPOS	ABLES	PB.5275	Cleaning kit: lens fluid, lint free lens tissue/pape		
PB.5155	Microscope slides 76 x 26 mm, ground edges,		brush, air blower, cotton swabs		
	50 pieces per pack	PB.5276	Microscope maintenance and servicing kit,		
PB.5157-W	Microscope slides 76 x 26 mm, ground edges and		16 pcs: cleaning brush, 6 pcs screwdriver set,		

frosted side white color, 50 pieces per pack

frosted side blue color, 50 pieces per pack

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

**PB.5157-B** Microscope slides 76 x 26 mm, ground edges and

maintenance and servicing kit, 16 pcs: 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

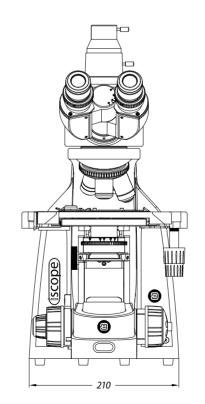
#### **DIMENSIONS**

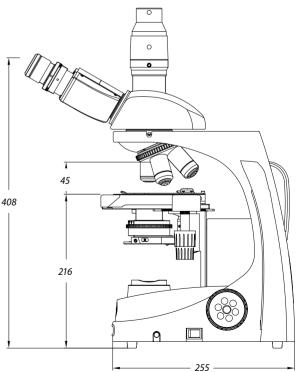
100 pieces

PB.5165









contrast objective

## education

## stereo microscopes



stereo microscopes





Euromex stereo microscopes are ideal instruments for most demanding teaching classes. The high-resolution three-dimensional images generated by these robust, student-friendly microscopes make them highly appreciated by both teachers and students

Digital models with built-in camera and measuring software are also available

**EDUBLUE • PAGE 48** 

STEREOBLUE • PAGE 54

**NEXIUSZOOM • PAGE 60** 

AP SERIES • PAGE 68

# BlueLine STEREO MICROSCOPES **EduBlue**

The EduBlue microscopes are ideal for educational purposes and available from 5x up to 80x magnifications

The two parallel optical trains allow the three-dimensional observation of small insects, plants, stones and minerals























ED.1302-P / ED.1402-P ED.1302-S / ED.1402-S ED.1505-S / ED.1805-S

#### HIGHLIGHTS

- Designed for education
- Robust and sturdy, with secured eyepieces
- WF 10x/20 mm eyepieces
- **Dual or triple magnifications**
- Binocular and trinocular models available
- Available in ergonomic rack & pinion and pillar stands
- **Double 1 W LED illumination**
- Supplied with rechargeable AA batteries for cordless use
- Digital models with 5.0 MP camera available
- Ergonomic carrying grip

**SPECIFICATIONS** 

Binocular head with 45° inclined tube.

Diopter adjustment of  $\pm$  5 on one side

Trinocular head with 45° inclined tubes and 23.2mm tube.

The standard trinocular tube accepts all standard 23.2 mm

Interpupillary distance adjustable between 55 and 75 mm

Pair of secured WF 10x/20 mm eyepieces supplied

**EYEPIECES** 

with eyecups

**HEAD** 

5 Years warranty



Pillar stand model ED.1302-P

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

#### TRIPLE MAGNIFICATION OBJECTIVES

- Revolving nosepiece with triple 1x/2x/3x and 1x/2x/4x magnifications objectives, which can provide standard magnifications of 10x, 20x and 30x or 10x, 20x and 40x
- · Working distance 60 mm
- Fields of view of 20/10/6.7 mm or 20/10/5mm
- Magnifications can be altered using optional eyepieces

#### **DUAL MAGNIFICATION OBJECTIVES**

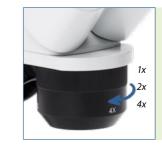
• A maximum of resolution of 2560 x 1920 pixels

- Revolving nosepiece with dual 1x/3x and 2x/4x magnifications objectives, which can provide standard magnifications of 10x and 30x or 20x and 40x
- · Working distance 60 mm

C-mount objectives

• Digital head is supplied with a 5.0 MP USB-2.0 1/2.8" CMOS camera

- Field of view of 20/6.7 mm or 10/5 mm
- · Magnifications can be altered using optional eyepieces



Revolving nosepiece with triple magnification

#### STAND

The rack & pinion and pillar stands of the EduBlue 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 stands are alloy metal casted with hardened coating. The rack & pinion models have graduations and focus point indicator for quick focusing. The EVO models are equipped with a build-in movable object stage

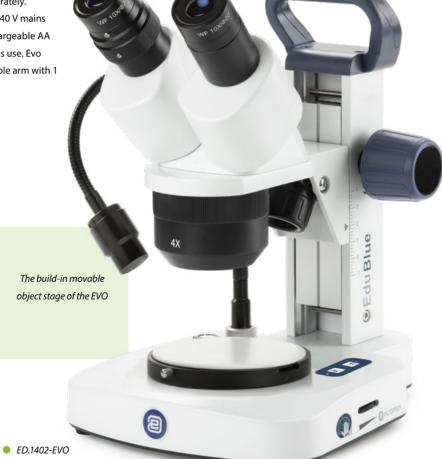


graduations and focus point indicator for quick focusing

#### ILLUMINATION

The transmitted and incident 1 W LED illuminations can be used simultaneously and the light intensities can be adjusted separately.

Supplied with an external 100-240 V mains adapter/charger and three rechargeable AA batteries for corded and cordless use. Evo models have an additional flexible arm with 1 W LED illumination



#### **DIGITAL MODELS**

Digital models are equipped with a 5 MP USB-2.0 1/2.8 inch sensor CMOS camera. Maximum resolution is 2560 x 1920 pixels, smaller resolutions are selectable. Delivered with ImageFocus Plus for capturing of images and videos. This software also allows a full range of analyzing tools such as measurements on still and live images and annotations on captured images. For more information see chapter 3:

#### 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**

Supplied with 100-240 V mains adapter/charger, three rechargeable AA batteries, dust cover, eyecups and user manual. All packed in a polystyrene box



ED.1303-S Trinocular model

MODELS	Bino	Trino	Digital head	1x/3x objectives	2x/4x objectives	1x/2x/3x objectives	1x/2x/4x objectives	Pillar stand	Rack & pinion stand	Movable stage/ flexible light arm
ED.1302-P	•			•				•		
ED.1302-S	•			•					•	
ED.1303-S		•		•					•	
ED.1305-S			•	•					•	
ED.1402-P	•				•			•		
ED.1402-S	•				•				•	
ED.1403-S		•			•				•	
ED.1405-S			•		•				•	
ED.1502-S	•					•			•	
ED.1505-S			•			•			•	
ED.1802-S	•						•		•	
ED.1805-S			•				•		•	
ED.1302-EVO	•			•					•	•
ED.1402-EVO	•				•				•	•

#### ACCESSORIES AND SPARE PARTS

#### **EYEPIECES**

ED.6005 Pair of HWF 5x/22 mm eyepieces ED.6010 Pair of HWF 10x/20 mm evepieces ED.6015 Pair of HWF 15x/12 mm evepieces ED.6020 Pair of HWF 20x/10 mm eyepieces ED.6110 HWF 10x/20 mm eyepiece with 10 mm/100 micrometer

ED.6099 Pair of eyecups

**MISCELLANEOUS** 

ED.9570 Pair of object clamps for stage ED.9950 Stage plate frosted glass, opaque, Ø 60 mm

Stage plate black/white, Ø 60 mm ED.9956

ED.4300 Aluminum transport case for EduBlue microscopes AE.1112 Micrometer 76 x 26 mm slide, 50 mm/50 divisions

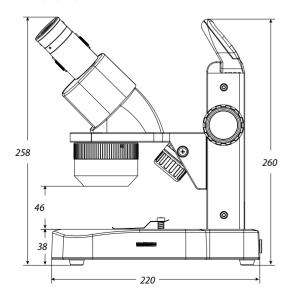
LED replacement unit, incident illumination SL.5504

SL.5505 LED replacement unit, transmitted illumination





#### DIMENSIONS



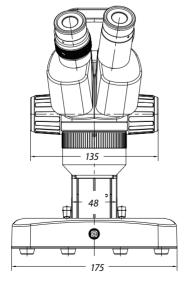
#### **DISPOSABLES**

PB.5245

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, 16 pcs: 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

Lens cleaning paper, 100 sheets per pack





#### about API

### **Antibacterial Protection Layer**

#### WHAT IS APL?

Using the same technology already used extensively throughout the healthcare environment in wall coatings, patient lighting, air pressure stabilization and suction liners, APL additives offer an excellent additional measure to routine infection control; working 24/7 to resist the growth of microbes

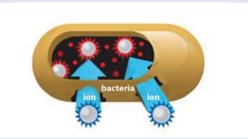
The antimicrobial performance of the end product is confirmed by independent laboratory testing to the international standards (JIS and ISO) and is typically proven to be up to 99.99% effective against MRSA and E.coli. Testing has also been carried out against many other organisms, including Legionella, Campylobacter and Candida

#### **HOW DOES IT WORK?**

Silver ions embedded in the material substrate are released via ambient moisture and enter the cell membrane The silver ions destabilize the cell by inhibiting cell division and replication of DNA, eventually killing the cell

#### IS APL SAFE?

The products offering APL protection use an additive based on ionic silver, which holds extensive approvals including those for food contact. All of the active substances we use are approved by the EFSA and FDA, and are supported for inclusion on the European Biocidal Product Regulation. We do not use nano-silver, triclosan or other organic antimicrobial additives



which have health and environmental concerns. The additives we use are non-leaching and

**TECHNICAL** 

**FACTS** 

#### WILL APL WEAR OFF?

non-sensitizina

Once APL has been incorporated into a material it is essentially there to stay. Recent independent testing of a new paint range demonstrated no loss in antimicrobial

performance even after 10 years of accelerated ageing. Ionic silver based additives will not lose efficacy due to leaching or migration, and since they are evenly dispersed throughout the material even scratches and abrasion do not affect the antimicrobial performance

#### DO CLEANING PRODUCTS AFFECT APL?

APL additives are embedded into the base material or coating and are therefore unaffected by abrasion or cleaning chemicals, such as chlorine bleach, disinfectants and alcohol. Even harsh industrial products, like MEK (methyl ethyl ketone), do not diminish the antimicrobial properties of products containing APL

#### LAST BUT NOT LEAST

APL is effective against a broad range of bacteria, including those responsible for illness, infection, odours, staining and material degradation. The purpose of APL is not to create a sterile environment or negate the need for routine cleaning, but to provide a useful complementary measure to normal hygiene practices



# BlueLine STEREO MICROSCOPE

StereoBlue microscopes are developed especially for laboratory applications, education, and are greatly appreciated by biologists, entomologists, geologists, mechanical and electronic engineers and other professionals such as jewelers and dental technicians

StereoBlue

















SB.1903





#### HIGHLIGHTS

- Designed for professional use
- Robust and sturdy
- WF 10x/21 mm evepieces
- Dual magnifications 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 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

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/5.2 mm Working distance 100 mm

#### **ZOOM OBJECTIVE**

Zoom stereo 0.7x to 4.5x parfocal objective Magnification from 7x to 45x 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 a black/white stage plate. 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 coating



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



#### 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)

#### **CAMERAS**

Euromex offers a wide range of cameras, see chapter 3 (Digital Solutions)

#### **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 (not on the U- and B-models)

#### 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



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

#### MAGNIFICATIONS

#### **WORKING DISTANCES AND FIELD OF VIEW SPECIFICATIONS**

#### EYEPIECES - 10X/21 MM

Magnification additional lens	Working distance	Minimum magnification	Maximum magnification	Maximum field of view	Minimum field of view
0.5	179	3.5	22.5	59.9	9.3
0.75	105	5.3	33.8	40.0	6.2
Standard	100	7.0	45.0	30.0	4.6
1.5	53	10.5	67.5	19.9	3.1

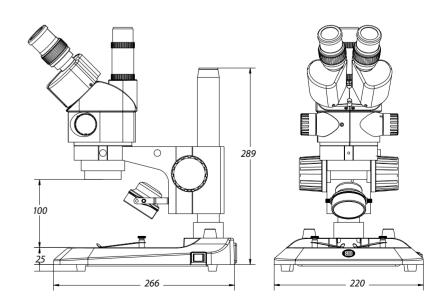
#### EYEPIECES - 15X/15 MM

Magnification additional lens	Working distance	Minimum magnification	Maximum magnification	Maximum field of view	Minimum field of view
0.5	179	5.3	33.8	42.9	6.7
0.75	105	7.9	50.6	28.6	4.4
Standard	100	10.5	67.5	21.4	3.3
1.5	53	15.8	101.3	14.3	2.2

#### EYEPIECES - 20X/10 MM

Magnification additional lens	Working distance	Minimum magnification	Maximum magnification	Maximum field of view	Minimum field of view
0.5	179	7.0	45.0	28.6	4.4
0.75	105	10.5	67.5	19.0	3.0
Standard	100	14.0	90.0	14.3	2.2
1.5	53	21.0	135.0	9.5	1.5

#### **DIMENSIONS**



#### ACCESSORIES AND SPARE PARTS

#### **EYEPIECES**

SB.6210	Pair of HWF 10x/21 mm eyepieces
SB.6210-C	WF 10X/21 mm eyepiece with crosshairs
SB.6210-M	WF 10X/21 mm eyepiece with micrometer scale
SB.6015	Pair of HWF 15x/15 mm eyepieces
SB.6015-C	WF 15X/15 mm eyepiece with crosshairs
SB.6015-M	WF 15X/15 mm eyepiece with micrometer scale
SB.6020	Pair of HWF 20x/10 mm eyepieces
SB.6020-C	WF 20/10 mm eyepiece with crosshairs
SB.6020-M	WF 20/10 mm eyepiece with micrometer scale
SB.6099	Pair of eyecups

#### **AUXILIARY LENSES**

SB.8903	Auxiliary 0.3x lens for zoom models,
	WD 287 mm. Only suitable for boom and
	articulated stands
SB.8905	Auxiliary 0.5x lens for zoom models, WD 179 mm.
	Only suitable for SB.1902-P, SB.1903-P, SB.1902-U,
	SB.1903-U, SB.1902-B and SB.1903-B
SB.8907	Auxiliary 0.75x lens for zoom models, WD 105 mm
SB.8915	Auxiliary 1.5x lens for zoom models, WD 53 mm.
	Not suitable for SB.39xx

#### MISCELLANEOUS

MISCELL	ANEOUS
SB.8950	Protection glass window for StereoBlue
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 for StereoBlue,
	only for –S and –P models
SB.9520	Polarization kit for StereoBlue: 360° rotatable
	circular stage with built-in polarization filter
	(SB.9524) and analyzer in mount to be screwed
	under the head (SB.9525)
SB.9524	360° rotatable circular stage with built-in
	polarization filter for StereoBlue
SB.9525	$360^{\circ}$ rotatable analyzer in mount to be screwed
	under the head of StereoBlue

Pair of object clamps for stage

#### Stage plate transparent, Ø 60 mm Stage plate black/white, Ø 60 mm SB.9956 SB.9983-R 3 W LED replacement unit for StereoBlue, incident illumination **SB.9983** 3 W LED replacement unit for StereoBlue, transmitted illumination AE.1112 Micrometer 76 x 26 mm slide, 50 mm/50 divisions

#### **CAMERA ACCESSORIES**

	Only for trinocular models		
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			

**SB.9850** C-mount adapter with 0.5x lens for 1/2" cameras.

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				







#### 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



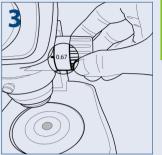
Put a specimen on the stage plate



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



QUICK

**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.9570

## **NexiusZoom** STEREO MICROSCOPES NexiusZoom (EVO)

The NexiusZoom and NexiusZoom EVO stereo microscopes allow you to examine your specimen with high precision, generating three-dimensional images, suitable for your highest demanding applications. These top level zoom microscopes are perfect for analyzing all kinds of material surfaces or observing and preparing biological samples

These stereo microscopes can be supplied with a large choice of stands, with or without LED illumination. Ideal for a wide variety of applications. With additional lenses and objectives magnifications from 3.3 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
- 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 with ± 5 diopter adjustments. Interpupillary distance adjustable between 54 mm and 75 mm. The 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. WD 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 NexiusZoom in chapter 6



#### **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

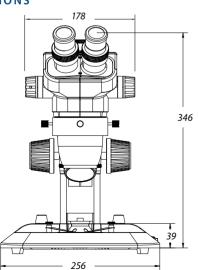
- Ergonomic pillar or rack & pinion stand with 3 W incident and 3 W transmitted LED illuminations (-P and -S stands)
- Ergonomic pillar stand with two 3 W gooseneck type incident LED illuminations on each side and a 3 W transmitted LED illumination (-PG stand)
- Ergonomic pillar stand with rotating mirror and 3 W LED transmitted and incident illuminations (-M stand)
- · Ergonomic universal or boom stands, without illumination (-U and -B stands)
- · Articulated arm stand for table mounting or with heavy 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 55 mm

#### **DIMENSIONS**



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 in accessories)

#### **ILLUMINATION**

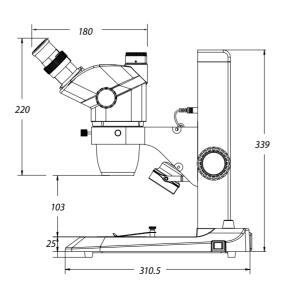
3 W transmitted and incident LED illuminators with internal power supply 100-240 V. Both illuminators can be used simultaneously and the light intensities can be adjusted separately. The universal single or double arm stands and the articulated stands can be equipped with the ring illuminators LE.1974 and LE.1973 with respectively 72 or 144 power LEDs controlled in segments or with the LE.5212 illumination station, ideal for creating or lifting shades

#### **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 (only on th P-, PG-, and S-models)

#### PACKAGE CONTENT

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



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

MODELS	Bino	Trino	Pillar stand	Rack & pinion stand	Universal stand	Boom stand on heavy base plate	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-S	•			•							4.9
NZ.1902-U					•						15.6
NZ.1902-B						•					22.1
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-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	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	•		•							•	5.1
NZ.1702-S	•			•							4.9
NZ.1702-U	•				•						15.6
NZ.1702-B											22.1
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-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*

<sup>\*</sup> 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 for NZ NZ.6020 Pair of HWF 20x/12 mm eyepieces for NZ

NZ.6099 Pair of eyecups for NZ

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

**NZ.6210-C** HWF 10x/23 mm eyepiece only with crosshairs

for NZ EVO

**NZ.6210-CM** HWF 10x/23 mm eyepiece only with 10/100 micrometer and crosshairs for NZ EVO

**NZ.6020-CM** HWF 20x/12 mm eyepieces with 10/100 micrometer and crosshairs

#### **AUXILIARY LENSES**

NZ.8903	Additional 0.3x lens for NZ. WD 287 mm.
	Only suitable for A, AP, U, B and BC stand
NZ.8904	Additional 0.4x lens for NZ. WD 220 mm.
	Only suitable for A, AP, U, B and BC stands
NZ.8905	Additional 0.5x lens for NZ. WD 183 mm.
	Not suitable for S stands
NZ.8907	Additional 0.75x lens for NZ. WD 105 mm
NZ.8915	Additional 1.5x lens for NZ. WD 53 mm
NZ.8920	Additional 2.0 lens for NZ. WD 34 mm.
	Not suitable for S stands

#### 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 holde
NZ.9025	Black universal stand with table clamp without
	NZ head holder

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

Black universal stand with heavy baseplate

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

without NZ head holder

Stand with rotating mirror and indirect transmitted LED illumination

NZ = NexiusZoom

NZ.9027















#### **HEAD HOLDERS**

NZ.9081 Head 76 mm holder for NZ and black universal 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



#### 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 opposite page) LE.5260 Interchangeable high power (standard) white 6,500K 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

Ring illuminator with 144 LEDs with adjustable LE.1973 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 halogen. 110 V and 230 V 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, 30 W high power LED LE.5214 Dual arm light conductor, gooseneck selfsustaining, 50 cm long, Ø 4 mm core LE.5215 Triple arm light conductor, gooseneck selfsustaining, 50 cm long, Ø 4 mm core LE.5222 Focusing head suitable for focusing lens LE.5214 and LE.5215 needs LE.5224 LE.5224 Aspherical focusing lens for mounting in LE.5222

#### STAGES

NZ.9505	Mechanical 180 x 155 mm X-Y stage with 75 x
	55 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.5168-NZ Heating stage for NZ microscope stage

More illumination options, see chapter 11



#### **CAMERA ACCESSORIES**

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

#### **MISCELLANEOUS**

NZ.8930	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)
NZ.9040	Darkfield attachment for NZ

NZ.9570	Pair 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

PB.5275

PB.5276

Iso propyl alcohol 99%, 200 ml Cleaning kit: lens fluid, lint free lens tissue/ paper, brush, air blower, cotton swabs Microscope maintenance and servicing kit, 16 pcs: 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 toolbox

Lens cleaning paper, 100 sheets per pack

NZ = NexiusZoomWD = working distance



• The LE.5212 in two different configurations







The microscopes of the AP series are designed specifically for educational purposes. The models are compact, robust and come with dual magnification revolvers and interchangeable objectives mounted in sliders





















AP-2 / AP-4

AP-5

AP-7 / AP-7 LED / AP-8 / AP-8 LED

#### HIGHLIGHTS

- Small and robust
- Binocular heads with vertical or 45° inclined tubes
- Secured WF 10x/20 mm eyepieces
- Magnifications from 10 to 120x
- Pillar stands with and without illumination
- LED illumination for cordless use



#### **SPECIFICATIONS**

#### **EYEPIECES**

Pair of secured wide field eyepieces WF 10x/20 mm. Supplied with eyecups

#### **HEAD**

Binocular head with vertical or 45° inclined tubes. One tube is supplied with diopter adjustment. Interpupillary distance from 55 to 75 mm

#### **OBJECTIVES**

- The AP-1, AP-2, AP-4 and AP-5 models come with a 2x magnification objective in slider. This objective is interchangeable with optional 1x, 3x, 4x and 6x magnification objectives
- The AP-7 and AP-7 LED models are supplied with revolving 1x/3x objectives for total magnification of 10 and 30x with fields of view from 20 to 6.7 mm
- The AP-8 and AP-8 LED models are supplied with revolving 2x/4x objectives for total magnification of 20 and 40x with fields of view from 10 to 5 mm

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

#### STAND

Pillar stand with a 40 mm coarse adjustment. Supplied with a black/white object plate and two object clamps

#### ILLUMINATION

- The AP-1 is supplied without illumination
- The AP-2 and AP-4 are supplied with an incident 10 W 12 V tungsten illumination and internal power supply
- The AP-5, AP-7 and AP-8 models are supplied with a transmitted and incident 10W 12V tungsten illumination and internal power supply
- The AP-7 LED and AP-8 LED models are supplied with a transmitted and incident LED illumination with three rechargeable AA batteries for a maximum of 35 hours cordless operation. With external mains adapter/charger

#### CAMERAS

Euromex offers a wide range of industrial and education grade cameras, see chapter 3 (Digital Solutions). The camera replaces one of the eyepieces

#### **PACKAGE CONTENT**

Supplied with power cord/adapter, three rechargeable AA batteries, dust cover, a spare fuse and user manual. All packed in a polystyrene box

AP-8-LED (50.931)

AP-4 (50.915)

MOD	ELS	Vertical head	45° head	Interchangeable 2x objective	1x/3x objective	2x/4x objective	Transmitted tungsten illumination	Incident tungsten illumination	Transmitted LED illumination	Incident LED illumination
50.890	(AP-1)	•		•						
50.900	(AP-2)	•		•				•		
50.915	(AP-4)		•	•				•		
50.920	(AP-5)		•	•			•	•		
50.925	(AP-7)		•		•		•	•		
50.926	(AP-7 LED)		•		•				•	•
50.930	(AP-8)					•	•	•		
50.931	(AP-8 LED)		•						•	•

#### 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				
Suitable for AP-1, AP-2, AP-4 and AP-5:					

#### **OBJECTIVES**

50.831	Paired achromatic objectives 1x. WD 57 mm
50.832	Paired achromatic objectives 2x. WD 80 mm
50.833	Paired achromatic objectives 3x. WD 61 mm
50.834	Paired achromatic objectives 4x. WD 57 mm
50.836	Paired achromatic objectives 6x. WD 40 mm

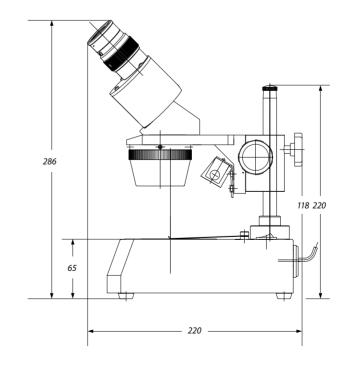
#### **MISCELLANEOUS**

50.871	Black/white stage plate Ø 94 mm for
	AP-7, AP-7 LED, AP-8 and AP-8 LED models
50.873	Glass stage plate Ø 94 mm for AP-7, AP-7 LED,
	AP-8 and AP-8 LED models
50.874	Black/white stage plate Ø 60 mm
	(AP-1, 2, 3 and 4)
50.875	Adjustable GEM object clamp for AP series
50.876	Darkfield attachment Ø 94 mm for AP-7, AP-7
	LED, AP-8 and AP-8 LED models
50.884	Spare bulb 10 W 12 V for AP series
50.975	External 100-240 V mains adapter
AE.1112	Micrometer slide, 50 mm/50 divisions

#### 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 and cotton swabs

#### **DIMENSIONS**





Transparent stage plate for transmitted illumination

AP-2 (50.900)

## education

## digital solutions



digital solutions

Get ready to discover the digital world of microscopy with the newest

Euromex digital educational products. The broad Euromex product range of digital cameras and digital microscopes with built-in camera offer the best matching solutions for your specific application needs

> Euromex digital educational products incorporate all the latest available technology in this field, such as WiFi, HDMI, CMOS, HD-CMOS and sCMOS





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**TABLET CAMERAS • PAGE 96** 

**SOFTWARE • PAGE 100** 

**ADAPTERS • PAGE 102** 

# BlueLine DIGITAL MICROSCOPES MicroBlue digital microscopes with

USB-2.0 camera The modern MicroBlue is an entry-level microscope, especially appreciated

built-in 5.0 MP

when budgets are limited There are two versions of the digital MicroBlue; one with a built-in digital camera, the other with an LCD screen Available with plain or integrated mechanical

stage. All models are equipped with 35 mm achromatic objectives



















MB.1051-LCD 378 (h) x 179 (w) x 202 mm (d) | 2.48 kg

MB.1055

#### HIGHLIGHTS

- Economic microscopes for education
- Built-in digital 1.3 or 5.0 MP USB-2.0 camera
- 7 inch LCD screen
- Ergonomic carrying grip
- 5 Years warranty (2 years on camera)

# SPECIFICATIONS **CAMERA**

All the MicroBlue build-in digital camera microscopes are equipped with:

- 1.3 MP 1/2.5" CMOS USB-2.0 camera, 2560 x 1920, max. 30 fps, ImageFocus 4 software
- a 5.0 MP 1/2.8" CMOS USB-2.0 camera, 1720 x 952 pixels, max. 30 fps, ImageFocus Plus software
- USB-2.0 cable and a micrometer 1mm/100 slide Warranty for the camera is two years

# • The LCD-head

#### SOFTWARE

- The capture and analysis ImageFocus 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 10 and 11, both 32 and 64 bits configurations. A Mac OS version is also available
- · Free software can be downloaded on our website For full microscope specifications and accessories see chapter 1: Biological microscopes

#### LCD SCREEN

- All the MicroBlue LCD microscopes are equipped with 7" IPS LCD screen
- Screen resolution 1920 x 1080 @ 30 fp
- · Save images and videos directly to micro SD card
- Image resolution upto 1844 x 1080 in .JPEG format
- · Video resolution 1280 x 720 .AVI format
- · Basic measurement function (line) with calibration. Calibration slide available as option

Warranty for the screen is 2 years

MODELS	Digital LCD	Digital mono	Maximum objectives	4/10/S40x objectives	S60x objective	S100x objective	Mechanical X-Y stage	Abbe condenser	LED	Batteries
MB.1001-LCD			3	•						•
MB.1051-LCD	•		4	•			•	•		•
MB.1055-X			4	•			•	•		•
MB.1655-X		•	4	•	•		•	•		•
MB.1155-X			4	•			•	•		

-X = -1; model equipped with 1.3 MP camera

-X = -5; model equipped with 5.0 MP camera



# digital microscopes with built-in 5.0 MP USB-2.0 camera

The digital microscopes are equipped with WF 10x/18mm eyepieces, a quadruple nosepiece, achromatic objectives, a 123 x 119 mm stage with two clamps or X-Y mechanical stage, Abbe condenser and a 1 W LED illumination with integrated 100-240 V power supply





















EC.1005



#### HIGHLIGHTS

- Economic microscopes for education
- Monocular and binocular models
- Built-in digital 5.0 MP USB-2.0 camera
- LED illumination
- Built-in 100-240 V power supply
- Ergonomic carrying grip
- 5 Years warranty (2 years on camera)



#### **SPECIFICATIONS**

#### **CAMERA**

All the EcoBlue digital microscopes are provided 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. USB-2.0 cable and a micrometer 1mm/100 slide

#### **SOFTWARE**

The capture and analysis ImageFocus Plus software allows you to save images in .jpg, .tif, .bmp or .dicom formats as well EcoBlue supplied with achromatic objectives

as .avi format videos. Measurements and annotations can be done on live or captured images. Compatible with Windows 10 and 11, both 32 and 64 bits configurations. A Mac OS version is also available. Free software can be downloaded from our website

For full microscope specifications and accessories see chapter 1: Biological microscopes

MODELS	Monocular	Binocular	4x, 10x, S40x objectives	S60x objective	S100x objective	Mechanical X-Y stage	LED
EC.1005			•				•
EC.1105			•		•		•
EC.1607		•	•	•			•
EC.1055	•		•			•	•
EC.1155	•		•		•	•	•
EC.1157		•	•		•	•	•
EC.1657		•	•	•		•	•

# BlueLine DIGITAL MICROSCOPES NeoLED **BioBlue**

digital microscopes with built-in 5.0 MP USB-2.0 camera

The WF 10x/18 eyepieces and the semi plan achromatic corrected 45 mm objectives of the BioBlue models generate a crisp high-resolution image

The 120 x 120 mm plain stage and 130 x 130 mm stage with double layered 70 x 28 mm mechanical X-Y stage enable precise and stable positioning of the specimen. With Abbe condenser, NeoLED™ or

LED illumination and with supplied rechargeable AA batteries for corded and cordless use

BB.4225

























#### HIGHLIGHTS

- 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)



#### 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 USB-2.0 cable and a micrometer 1mm/100 slide



The capture and analysis ImageFocus Plus 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 10 and 11, both 32 and 64 bits configurations. A Mac OS version is also available. Free software can be downloaded from our website

#### MODELS WITH LCD SCREEN

The BioBlue is also available with a 7" LCD screen, with all the features of the regular BioBlue. This screen allows live viewing, saving images and videos directly to a micro SD card

and even has a basic line measurement function included. The HD LCD screen can only be operated as a stand alone

Screen resolution 1920 x 1080 @ 30 fps, image resolution up to 1844 x 1080 in JPG and video resolution 1280 x 720 AVI format For full microscope specifications and accessories see chapter 1: Biological microscopes







The digital heads

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	Weight (kg)
BB.4205				•				•		2.9
BB.4225	•			•			•	•		3.4
BB.4245				•	•		•	•		3.4
BB.4255	•			•		•	•	•		3.4
BB.4267		•		•		•	•			4.1
BB.4269		•		•			•		•	4.1
BB.4200-LCD			•	•				•		2.9
BB.4220-LCD			•	•			•	•		3.4



# bscope DIGITAL MICROSCOPES NeoLED bScope® digital microscopes

The versatile and evolutive bScope® microscopes are well-equipped and intensively used in universities, small to mid-sized laboratories and for veterinary applications

5.0 MP USB-2.0 camera

The digital bScope® comes with WF 10x/20 mm eyepieces and is exclusive available in binocular versions. Complete with E-plan IOS and Plan

IOS infinity corrected objectives for brightfield observations













with built-in















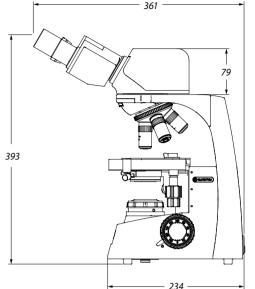
BS.1157-PLi

BS.1157-PLi 409 (h) x 195 (w) x 235 (d) | 7.1 kg

#### 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)

#### **DIMENSIONS**





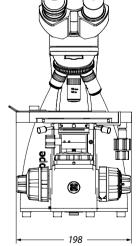
# SPECIFICATIONS

#### **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 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 10 and 11, both 32 and 64 bits configurations. A Mac OS version is also available. Free software can be downloaded from our website. For full microscope specifications and accessories see chapter 1: 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	Köhler NeoLED™
BS.1157-EPLi	•	•	•		•
BS.1157-PLi	•	•		•	•

All models can optionally be supplied with three rechargeable AA batteries



#### HIGHLIGHTS

- Economical binocular models
- Dual and triple magnification objectives
- Cordless operation
- Built-in digital 5.0 MP USB-2.0 camera
- LED illuminators
- Ergonomic carrying grip
- 5 Years warranty (2 years on camera)

Triple magnification

# EduBlue

# digital microscopes with built-in 5.0 MP USB-2.0 camera

The EduBlue stereo microscopes are designed specifically for educational purposes and are equipped with WF 10x/20 mm eyepieces, a revolving nosepiece with double or triple magnification objectives



#### SPECIFICATIONS

#### **CAMERA**

All the EduBlue digital microscopes are provided 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 USB-2.0 cable and a micrometer 1mm/100 slide

#### SOFTWARE

The capture and analysis ImageFocus Plus 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 10 and 11, both 32 and 64 bits configurations. A Mac OS version is also available. Free software can be downloaded from our website

For full microscope specifications and accessories see chapter 2: Stereo microscopes



With transmitted and incident 1 W LED illuminations, 60 mm working distance. Supplied with three rechargeable AA batteries for corded and cordless operation. Also supplied with an external power supply

















ED.1305-S /ED.1405-S /ED.1505-S /ED.1805-S

MODELS	Binocular	1x/ 3x objectives	2x/ 4x objectives	1x/2x/3x objectives	1x/2x/4x objectives	Rack & pinion stand
ED.1305-S	•	•				•
ED.1405-S	•		•			•
ED.1505-S	•			•		•
ED.1805-S	•				•	•



# **EduBlue LCD**

# digital microscope with built-in 2.0 MP camera

The EduBlue LCD microscope is built around one 1 to 4 times zoom objective and enables observation of all kinds of objects directly on a 9" LCD screen. These kinds of microscopes are well-suited for education

The EduBlue LCD is equipped with a built-in 2 MP high definition CMOS camera with 1920 x 1080 pixels























ED.3000





Adjustable screen

# HIGHLIGHTS

- MonoZoom stand-alone digital microscope
- Zoom 1x up to 4x
- 91 mm working distance
- Built-in 21 LED incident ring light. five intensity positions
- Built-in 7 LED transmitted, two intensity positions
- Built-in 2 MP HD camera
- HD 9-inch screen
- Removable 8 GB SD card
- Metal stand
- 3 Years warranty (2 years on camera)

#### **SPECIFICATIONS**

#### CENTRAL ZOOM OBJECTIVE

The EduBlue LCD ED.3000 features a single optical zoom objective with a 1 to 4x zoom magnification. Zoom adjustments engravings on 1, 1.5, 2, 3 and 5x. The working distance is 91 mm. A digital zoom up to 10x is available within the software

#### STAND

The central Zoom Objective with attached screen and LED ring light is mounted on a rack and pinion system that sits on a 30 x 180 mm metal stand

#### ILLUMINATION

Two types of illumination are available;

- · An integrated 21 LED incident ring light illumination (5.500 K) with five intensity positions
- · A 7 LED transmitted illumination (5.785 K) with two intensity positions, integrated in the base

#### **BUILT-IN CAMERA**

Built-in HD 2 MP CMOS high speed camera with attached 9" screen. There is one USB port for a max. 16 GB SD storage card for captured images. The operator can take and save images to the SD card by pressing on a capture button at the left side of the screen. Images are saved in the .jpg format and videos are saved in .avi format

#### **BUILT-IN SOFTWARE**

The built-in on screen software is driven by the supplied computer mouse and features functions such as Capture image, Freeze image, Automatic white balance, Automatic exposition, File manager, Grids. Also camera settings such as Exposure time, Gain, Saturation, Contrast, Sharpness and HDR

#### PACKAGE CONTENT

Supplied with 16 GB SD card, black/white object plate, a glass transparent object plate and external 12V / 2A power supply





#### **SPECIFICATIONS**

#### **CENTRAL ZOOM OBJECTIVE**

The MacroZoom MZ.4500 features a single optical zoom objective with a 0.7x to 4.5x zoom magnification. Zoom adjustments engravings on 1, 1.5, 2, 3 and 4.5x. The working distance is 105 mm

#### STAND

The MacroZoom is mounted on a 230 mm height pillar (Ø 32 mm) and holder (Ø 39/50 mm) that sits on a metal 320 x260 x 16/25 mm metal stand

#### **CAMERA SYSTEMS**

Any of our digital C-mount cameras (in this chapter) can be used together with the MacroZoom

#### **PACKAGING**

Supplied with dust cover and packed in a polystyrene box

#### HIGHLIGHTS

- Stand-alone
- Zoom semi-apochromatic objective
- Zoom up to 0.7x to 4.5x
- C-mount with 0.4x objective
- 105 mm working distance
- Without illumination
- Metal stand
- 3 Years warranty



MZ.4500



CMEX entry level USB-2.0 cameras

with CMOS sensor

The CMEX-1 is equipped with a CMOS sensor

Besides capturing images and videos, the ImageFocus 4 software allows measurements on still and live images and annotations on captured images. Compatible with Windows 10 and 11, both 32 and 64 bits configurations. A Mac OS Light version is also available for capturing images only. Free software can be downloaded from our website



MODEL	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-1	1.3	1/2.5" CMOS	2.2 x 2.2	1272 x 952	15	10 bits	24 bits	55	72	1.3	DC.1300c
				632 x 472	30						

The CMEX-1 (DC.1300c) camera is supplied with a 0.45x 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

Besides capturing images and videos, the ImageFocus Plus software allows measurements on still and live images and annotations on captured images. Compatible with Windows 10 and 11, both 32 and 64 bits configurations. A Mac OS version is also available. Free software 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 and a 1 mm/100 (10 µm/division) calibration slide. The cameras are supplied with a 0.45x C-mount objective



#### with CMOS sensor

The CMEX 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

Besides capturing images and videos, the ImageFocus Alpha software allows measurements on still and live images and annotations on captured images. Compatible with Windows 10 and 11, 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 software can be downloaded from our website

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

These 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 cameras are equipped with a USB-3.0 data interface and supplied with ImageFocus Alpha software

Besides capturing images and videos, the ImageFocus Alpha software allows measurements on still and live images and annotations on captured images. Compatible with Windows 10 and 11, 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 software can be downloaded from our website

MODELS	Number of pixels (MP)	Sensor and size (inches)	Pixels size (µm)	Exposure time	Resolutions	Max. frames (p/sec)	Color rendering	Dynamic range (dB)		Sensitivity V/lux-sec	Product number
sCMEX- 3	3.1	1/2.8" sCMOS	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	1/1.8" sCMOS	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	1" sCMOS	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	DC.20000s
sCMEX-32	32	1.15" sCMOS	2.3 x 2.3	0.1 ~ 15000 ms	5600 x 5600 2800 x 2800 1400 x 1400	8.1 30 30	36 bits	88	50	0.43	DC.32000s

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 µm/division) calibration slide. The DC.3000s is supplied with a 0.37x objective, the DC.6000s is supplied with a 0.5x objective, the DC.20000s and DC.32000s are supplied with a 1.0x adapter



# 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

#### 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 mouse driven built-in software of the camera enables captured images and recorded videos\* to be saved on the integrated SD memory card

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 on Windows 10 and 11, both 32 and 64 bits. 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

#### 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
- HDMI, USB-2.0/3.0
- Autofocus model available
- Compatible with ImageFocus software



#### **PACKAGE CONTENT\***

MODELS	UHD-4K	HD-Ultra	HD-Lite	HD-Mini	HD-Mini +HDS	HD-Autofocus	HD-Pro
C-mount with objective	0.5x	0.37x	0.45x	0.5x	0.5x	0.5x	0.37x
Interface(s)	•	•	•	Only HDMI	Only HDMI	Only HDMI	•
30 and 30.5 mm adapters	•	•	•	•	•	•	•
SD card	16 GB	16 GB	8 GB	16 GB	16 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)	88 x 78 x 65	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)	480	440	280	50	130	500	500
Product number	VC.3042	VC.3036	VC.3031	VC.3023		VC.3034	VC.3039
With 11.6" HD screen	VC.3042-HDS	VC.3036-HDS	VC.3031-HDS		VC.3024-HDS	VC.3034-HDS	VC.3039-HDS

<sup>\*</sup> See for more information chapter 7



# CMEX-5 WiFi-3 5.0 MP

# digital WiFi camera with 1/2.5 inch CMOS sensor

The CMEX-5 WiFi-3 1080p 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 available on 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 and is available on www.euromex.com

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)		Grayscale conversion		-	•	Sensitivity V/lux-sec	Product number
CMEX-5 WiFi-3	CMOS	1/2 8"	30 v 30	1020 v 1080	12 hitc	24 hits	60	66.5	1 2	DC 5000-WiFi-3

The CMEX-5 WiFi-3 camera is supplied in a box with USB cable, 30.0 and 30.5 mm adapters to use with stereo microscopes, and a 0.37x C-mount objective

# **Cooled color camera**

### with CCD or CMOS sensor

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

ImageFocus Alpha 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 10 and 11, both 32 and 64 bits configurations. Free software is available on www.euromex.com. A Mac OS version is also available (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	•	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

# **EduPad**



# **EduPad tablet**

with microscope camera

The EduPad tablet with a 8 inch display can be supplied with a 2.1 MP, 5.1 MP, 12.0 MP or a WiFi camera. Together with the ImageFocus Plus or ImageFocus Alpha software it offers a state-of-theart solution for modern microscopy for education







#### SOFTWARE

EduPad USB camera works with ImageFocus Plus software and EduPad with WiFi camera works with ImageFocus Alpha. The WiFi camera can also be operated through IOS and Android apps



- 8" Tablet with microscope camera
- 1280 x 800 pixels touch screen
- Full Windows 10 Home
- ImageFocus Plus software for PC
- ImageFocus Alpha for WiFi enabled PC and Android devices
- Tablet can be fully detached from camera



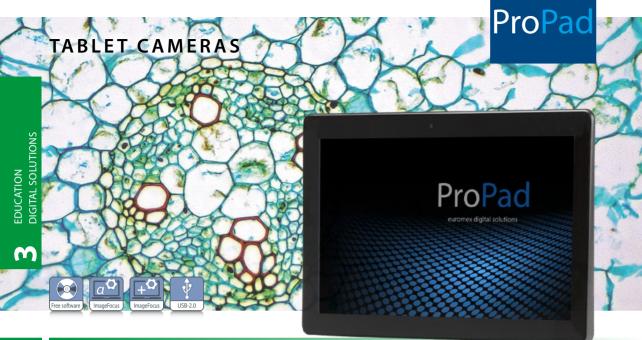
#### **SPECIFICATIONS**

Processor	Quad Core 1.33 GHz with HD graphics processor
Screen	screen 1920 x 1200 touchscreen, 16:10, LED backlight
Memory	2 GB DDR3 RAM
Storage	32 GB flash SDD, Micro SD/SDHC cards up to 64 GB
Webcam	Front and rear cameras
Connectivity	USB-C, Wi-Fi 802.11 b/g/n and Bluetooth 4.0
Audio	Stereo with 3.5 mm audio jack and built-in microphone and speaker
Battery	Lithium
Housing	approx. 21 x 12 x 9 cm
Weight	approx. 0.4 kg
System	Windows 10 Home

Specifications can be changed by Euromex microscopen by without notice

MODELS	Camera (MP)	Sensor size	Resolution	Pixels size (μm)	ADC	Color rendering	Dynamic (dB)	Sensitivity V/lux-sec	Interface	Product number
EduPad-2	2.1	1/2.9"	1920 x 1080	2.8 x 2.8	12 bits	24 bits		0.51	<b>‡</b> 2.0	EP.2000f
EduPad-5	5.1	1/2.8"	2592 x 1920	2.0 x 2.0	12 bits	24 bits	72 dB	2.0	<b>1</b> 2.0	EP.5000f
EduPad-12	12.0	1/2.3"	4072 x 3176	1.33 x 1.33	8 bits	24 bits	60 dB		<b>1</b> 2.0	EP.12000f
EduPad-WiFi	5	1/2.8"	1920 x 1080	3.9 x 3.9	12 bits	24 bits	61 dB	1.3	<b>#</b>	EP.5000-WiFi

All EduPad models are supplied with a C-mount objective that fits the standard 23.2 mm trinocular tubes



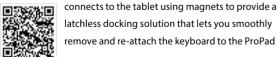
# **ProPad tablet**

with microscope camera and keyboard-docking station

The ProPad Full HD (1280x800) display reveals bright colors and crisp images.

The ProPad consists of a high quality microscope camera system and a fully detachable tablet running the latest ImageFocus version. You can take it anywhere

Together with the included attachable keyboard, you can use it as a microscope imaging system, tablet and laptop. The keyboard



#### **SOFTWARE**

ProPad-2, ProPad-5 and ProPad-12 work with ImageFocus Plus. ProPad-WiFi works with ImageFocus Alpha. The WiFi camera can also be operated through IOS and Android apps

#### 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	<b>↓</b> 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		<b>1</b> 2.0	PP.5000f
ProPad-WiFi	5.0	1/2.8"	1920 x 1080	3.9 x 3.9	12 bits	24 bits	61 dB	1.3	<b>#</b>	PP.5000-WiFi

All ProPad models are supplied with a C-mount objective that fits the standard 23.2 mm trinocular 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.3039	VC.3042			

#### **IMAGE STITCHING**

Image stitching is the process of combining multiple images with overlapping fields of view to produce one image

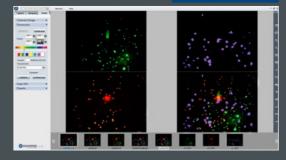
#### **EXTENDED DEPTH OF FOCUS**

"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**

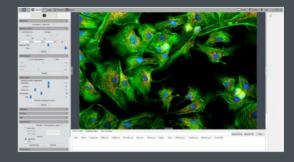
software

- 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 10 and 11, 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 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 10 and 11, 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
- 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 10 and 11, 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



# adapter guide

# microscope and camera

Most Euromex cameras are supplied with a photo port c-mount adapter to connect 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 \* Except for the Oxion, Oxion Inverso and Delphi-X Inverso series. These microscopes need an additional adapter. See next page

Should you want to connect one of our cameras to another microscope brand, see adapter references below:

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)

<sup>(1)</sup> Leica DM, 35 mm to 25.4 mm C-mount, stainless steel

<sup>(5)</sup> Nikon E100, E200, 50i, 55i, 80i, 90i, Ni series, Ti Series, SMZ800,SMZ1000, SMZ15000, 38 mm to 25.4 mm C-mount, stainless steel





#### 23.2 MM PHOTO PORT C-MOUNT ADAPTERS

Suitable for all Ø 23.2 mm (photo) tubes

DC.1324	C-mount ac	lapter wit	h 0.45x ol	ojective fo	or 1/2	2" can	nera

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

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

Other T2 adapters on request











AE.5130



AE.5120-2

PHOTO PORT ADAPTERS

Suitable for Euromex microscopes with a photo port such as Oxion, Nexius Zoom, StereoBlue, Delphi-X Observer and Delphi-X Inverso

AE.5120-2	Standard 23.2 mm diameter tube for Oxion photo	DX.9863	C-mount with high resolution relay 0,63x objective
	port		for 2/3 inch C-mount camera
DI.9840	C-mount with high resolution 0.40x objective for	DX.9810	C-mount with 1 magnification for C-mount camera
	1/3 inch C-mount camera	NZ.9850	C-mount adapter with 0.5x objective for
DI.9850	C-mount with high resolution 0.50x objective for		NexiusZoom microscopes and 1/2" cameras
	1/2 inch C-mount camera	OX.9810	C-mount adapter with 1x magnification for 1"
DI.9810	C-mount with 1x magnification for C-mount		cameras
	camera	OX.9833	C-mount adapter with 0.33x objective for Oxion
DX.9835	C-mount with high resolution relay 0.35x objective		microscopes and 1/3" cameras
	for 1/3 inch C-mount camera	OX.9850	C-mount adapter with 0.5x objective for Oxion
DX.9850	C-mount with high resolution relay 0.50x objective		and Oxion Inverso microscopes and 1/2" cameras
	for 1/2 inch C-mount camera	SB.9850	C-mount adapter with 0.5x objective for
			StereoBlue microscopes and 1/2" cameras

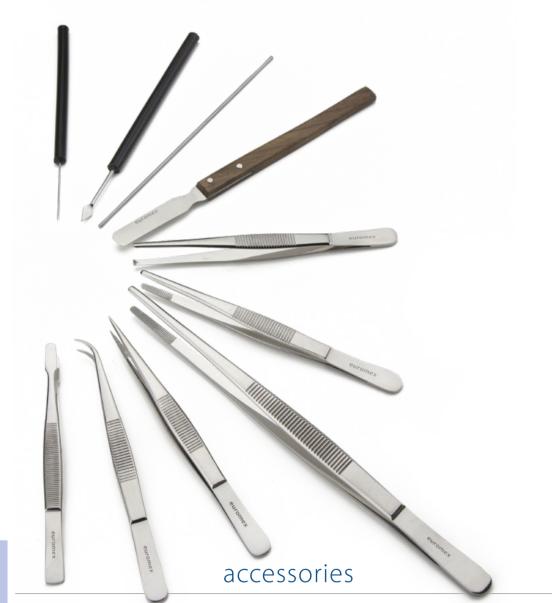
<sup>&</sup>lt;sup>(2)</sup> Olympus CX, CX2, BX, BX2, IX, MX, GX, SZX, STM, 42 mm to 25.4 mm C-mount, anodized aluminum

<sup>&</sup>lt;sup>(3)</sup> Zeiss PrimoStar, PrimoStar Vert, 30 mm to 25.4 mm C-mount, anodized aluminum

<sup>(4)</sup> 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

<sup>\*</sup> for increased light efficiency



# accessories

# for microscopy





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**DISSECTION INSTRUMENTS • PAGE 378** 

**DISSECTION KITS • PAGE 380** 

MICROSCOPE PREPARED SLIDES • PAGE 382

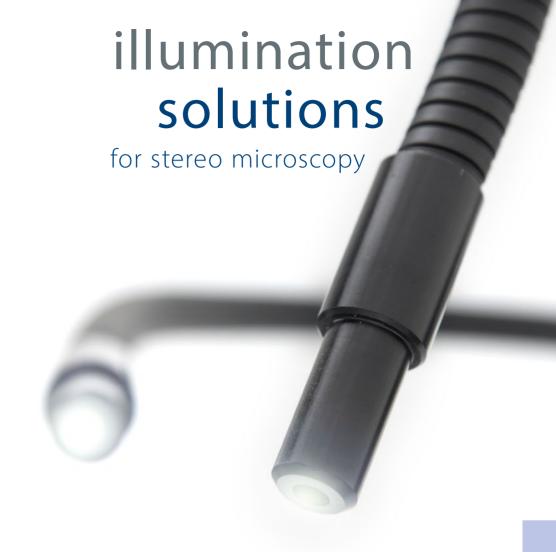
**DISPOSABLES • PAGE 394** 

STAINS • PAGE 395



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 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 <sup>1)</sup>	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

<sup>\*</sup> 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 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

<sup>\*</sup> 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

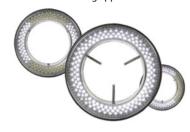


Economical dual LED intensity adjustable light source with two 44 cm flexible gooseneck arms, each mounted with a 3 W LED. Ideal for applications in life and materials sciences, various industrial applications and for stereo microscopy

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

#### 144 LEDS RING LIGHT SOURCE • LE.1973

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 diameter 94.5 and 15 mm thick

MODELS	3 W gooseneck guide LED	4 W white LED ring light	2 W white LED transmitted light stage
LE.5212	White LED, 6,500 K	•	•
LE.5212-365	365 nm, monochrome	•	•
LE.5212-395	395 nm, monochrome	•	•
LE.5212-420	420 nm, monochrome	•	•



#### 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,	LE.5235-3	Dual arm flexible fiber light conductor,
	gooseneck self-sustaining,		300 cm long, 4 mm diameter
	50 cm long, 4 mm diameter	LE.5217	Triple arm flexible fiber light conductor,
LE.5214	Dual arm fiber light conductor,		100 cm long, 4 mm diameter
	gooseneck self-sustaining,	LE.5218	Single arm flexible fiber light conductor,
	50 cm long, 4 mm diameter		100 cm long, 8 mm diameter
LE.5215	Triple arm fiber light conductor,	LE.5220	Single arm flexible fiber light conductor,
	gooseneck self-sustaining,		200 cm long, 8 mm diameter
	50 cm long, 4 mm diameter	LE.5222	Focusing head for focusing lens LE.5224, LE.5228
LE.5219	Dual arm fiber light conductor,		or filters LE.5229 and LE.5231
	gooseneck self-sustaining,		(for fiber light conductors)
	70 cm long, 4 mm diameter	LE.5224	Focusing lens. Requires LE.5222 or LE.5228 for
LE.5239	Slit ring-shaped fiber light conductor		mounting on LE.5213, LE.5214 and LE.5215
	60 cm long, 8 mm diameter	LE.5228	Focusing head with iris diaphragm
LE.5241	Flexible fiber light conductor,		(for fiber light conductors)
	curved 90°, 60 cm long, 4 mm diameter	LE.5231	Conversion KB12/80B filter
LE.5216	Single arm flexible fiber light conductor,		
	100 cm long, 4 mm diameter	HALOGE	EN BULBS AND FUSES
LE.5235	Dual arm flexible fiber light conductor,	SL.5219	Halogen 100 W 12 V bulb with reflector
	100 cm long, 4 mm diameter		(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

FOR LE.1980 AND LE.1981 LE.1984-050 Fresnel lens, WD from 40 to 80 mm **LE.1984-100** Fresnel lens, WD from 80 to 150 mm **LE.1984-200** 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 Rotatable polarizing filter LE.1888 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.1990 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) Polarization filter, screw on type for LE.5264 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



Fresnel lens







PB.5069

#### 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

Dressing forceps with blunt tips, PB.5064 length 20 cm

PB.5067 Dissecting forceps with sharp tips,

length 13 cm

Dissecting forceps with finely curved sharp tips, length 13 cm

PB.5077 Cover glass forceps, length 11 cm



#### SCISSORS AND BLADES

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)

PB.5095 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.

PB.5103

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

MT.5501 Cylinder microtome. Identical to MT.5500 but

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





#### 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.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

Amoeba proteus, w.m

SH.1011 Hard bone grinding, human, section

SZ.1510

**SZ.1580** Hydra with bud, w.m **SZ.1640** Lumbricus - earthworm, c.s Daphnia sp., water flea, w.m Musca domestica, house fly, mouth parts 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 Rhizopus 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

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, section SH.1160 Lymph node, rabbit, section SH.1230 Small intestine, dog, c.s SH.1250 Liver, pig, section SH.1430 Cerebrum section, dog

SH.1001 Loose connective tissue, rabbit

ZOOLOGY SZ.1520 Paramecium, w.m. **SZ.1625** Schistosoma Japonicum, fluke eggs, bilharziose Taenia, tapeworm cattle, mature proglottid, w.m **SZ.1635** Ascaris megalocephala, horse roundworm, female + male, c.s **SZ.1708** Apis mellifica, honey bee, mouth parts Periplaneta, cockroach, mouth parts of chewing type Pieres brassicae, cabbage-white butterfly, SZ.1730 mouth, w.m **SZ.1750** Periplaneta, cockroach, spiracle of insect, w.m

#### **BOTANY**

SB.2110 Cucurbita, pumpkin, stem, l.s 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.2095 Monocot/dicot stem, zea mays/pumpkin, c.s

SB.2105 Hibiscus, young stem, c.s

SB.2386 Oscillatoria, blue-green algae

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.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	

SH.1060 Tendon I.s (Dense connective tissue), dog

#### 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.

#### ROTANY

BUTAN	! !
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

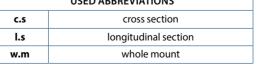
ZOOLOGY			CC
SZ.1610	Planaria, flat worm, injected intestinal tube, w.m	SB.2234	Pi
SZ.1636	Ascaris megalocephala, horse roundworm,	SB.2330	M
	mitosis eggs	SB.2360	Sa
SZ.1760	Ctenocephalus canis, dog flea, w.m	SB.2365	Pe
SZ.1770	Tetranychus, red spider mite, w.m	SB.2410	St
SZ.1930	Bird, wing and down feather, section	SB.2415	Ва
SZ.1940	Chicken, embryo 48 hours, sagittal section		

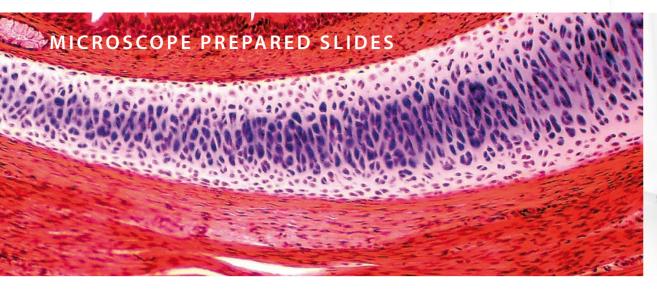
#### **BOTANY**

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

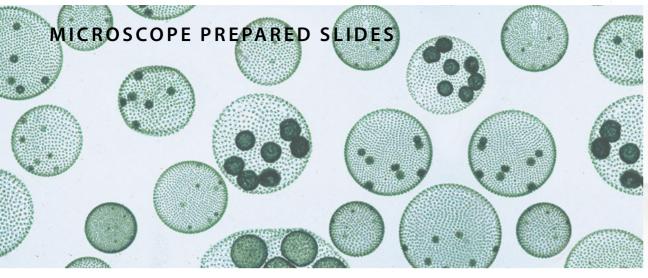
SZ.1724 Fruit fly, drosophila, giant chromosomes of salivary gland, w.m

#### **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.

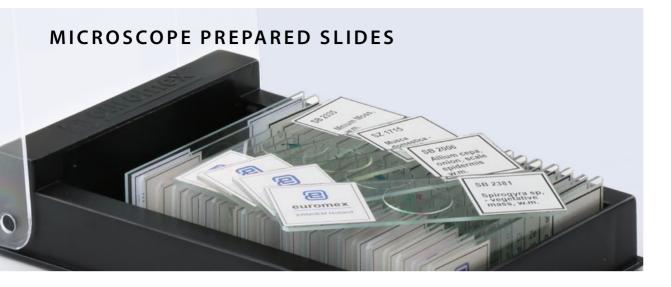
#### **BOTANY**

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

These high quality microscope slides are 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



## 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	

SZ.1730	Pieres brassicae, cabbage-white butterfly,
	mouth, w.m

	•
SZ.1733	Pieres brassicae, cabbage-white butterfly, part of wing
SZ.1738	Locusta, grasshopper, mouth parts, w.m
SZ.1760	Ctenocephalus canis, dog flea, w.m

SZ.1780	Insects- four types of legs, honey bee, house fly,
	house modquito, spider

#### **AMPHIBIANS**

SZ.1877	Rana sp, frog, blood smear
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.s

#### **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

3B.20/0	Hellanthus, 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,

#### 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

stem with crok cambium and lenticels, 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



#### STAINS

Staining enables observation of cells and tissues of low contrast. Euromex offers a range of common stains





#### MISCELLANEOUS ACCESSORIES

PB.5200 Staining trough for 10 slides

PB.5210 Fine pointed brush

PB.5245 Lens paper. 100 sheets

PB.5250 Solid paraffin. Melting point 60°C, 200 grams

**PB.5255** Immersion oil, refractive index nD = 1.515, (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



#### (DISSOLVED) STAINS

Supplied in 25 ml bottles

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

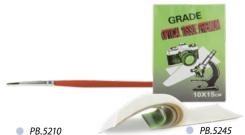
**PB.5292** Orange-G, stain for most elementary structures of animal tissues

PB.5295 Safranine. A general stain for showing nuclei and cellulose walls. To be used in combination with Astra Blue

PB.5297 Methylene Blue. Biological and bacteriological stain

PB.5300 Analin Blue, to be used as third color for Azo pigmentation

PB.5305 Fuchsine. For staining bacilli in tissue



PB.5276

PB.5286 - PB.5297

# 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 398** 

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**SPECTROMETERS • PAGE 410** 

#### **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 PB.5021 Magnifier with handle 10x, aplanatic lens Ø 25 mm and handle Ø 8 mm. Fits on PB.5022 **PB.5022** Heavy stand with adjustable cross clamp, base Ø 70 mm. Weight 450 grams. For PB.5022 and PB.5021 PB.5021 PB.5022 PB.5020

#### **FOLDING MAGNIFIERS**

Aplanatic magnifier 6x, doublet. PB.5016 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



Measuring microscopes are built with a microscope objective for magnifications from



# magnifiers & measuring microscopes

PB.5040

#### TABLE MAGNIFIERS

20 to 100x times

**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





**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. 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

#### **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 400 ABBE REFRACTOMETER • PAGE 403





# 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 in °C

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	¥	Ĭ	Ľ	₹	Δ
Concentrations of sugar in marmalades, fruits, syrups,	RF.6190	0-90	Brix	0.2	3 scales: 0-42 / 42-71 / 71-90 Brix		•		•	
wine and monitoring	RF.6510	0 - 10	Brix	0.1		•	•		•	
of oil emulsions	RF.6520	0 - 20	Brix	0.1		•	•		•	
	RF.6532	0 - 32	Brix	0.2		•	•		•	
	RF.6562	28 - 62	Brix	0.2		•	•		•	
	RF.6580	0 - 80	Brix	0.5		•	•		•	
	RF.6582	45 - 82	Brix	0.5		•	•		•	
	RF.6592	58 - 92	Brix	0.2		•	•		•	
	RF.6635	0 - 150 0 - 35 0 - 27 0 - 22 0 - 37	Brix °KMW %	1 0.2 0.2 0.2 0.5	Oechsle units Sugar concentration Babo units % volume	•	•		•	
	RD.6735	0 - 150 0 - 35 0 - 25 0 - 22	Brix °KMW	1 0.1 0.1 0.1		•	•			•
	RD.6645	0 - 45 1.33 - 1.41		0.1 0.0003		•	•			•
	RD.6666	0 - 80 1.33 - 1.51		0.5 0.0005		•	•			•
	RD.6667	58 - 92 1.43 - 1.52		0.2 0.0003		•	•			•
Honey	RF.6642	13 - 25	%	0.1	Honey moisture	•	•		•	
	RF.6644	58 - 92 38 - 43 12 - 27	°Be	0.5 0.5 1	Water	•	•		•	
Concentration of sugar/alcohol %	RF.6627	0 - 25 0 - 40 0 - 20		0.2 0.2 0.2	% volume	•	•		•	
Salinity and concentration of sugar	RF.6610	0 - 100 0 - 10 1.00 - 1.07	Brix	1 0.1 0.005		٠	•		•	
	RF.6628	0 - 28	%	0.2		•	•		•	
	RD.6728	0 - 28 0 - 45 1.33 - 1.41	Brix	0.1 0.1 0.0003	% NaCl Only for sugar/salt	٠	٠			•
Clinical applications Proteins	RF.6612	0 - 12 1.00 - 1.05 1.333 - 1.360	sg	0.2 0.002 0.0003	Proteins in serum Urine specific gravity	•	•		•	



Application	Art no	Range	Accuracy	Remarks	ATC	Handheld model	Table model	Analog	Digital
	RF.6614	2 - 14 g/dl 1.00 - 1.06 sg 1.00 - 1.06 sg	0.1 0.001 0.001	Proteins in serum Urine specific gravity (dog) Urine specific gravity (cat)	•	•		•	
	RD.6712	0 - 12 g/dl 1.00 - 1.05 sg 1.33 - 1.39 R.I.	0.1 0.001 0.0001	Proteins in serum Urine specific gravity	•	•			•
	RD.6714	0 - 14 g/dl 0 - 14 g/dl 1.00 - 1.06 sg 1.00 - 1.06 sg 1.33 - 1.39 R.I.	0.1 0.1 0.001 0.001 0.0001	Proteins in serum (dog) Proteins in serum (cat) Urine specific gravity (dog) Urine specific gravity (cat)	٠	•			•
Battery Acid/Coolant	RF.6650	1.10 - 1.40 sg -50 / 0 °C -50 / 0 °C -40 / 0 °C	0.01 5 5 10	Battery fluids Ethylene glycol G13 Propylene glycol G11/12 windshield washer fluid	•	٠		•	
	RD.6730	1.0 - 1.50 sg -50 / 0 °C -50 / 0 °C -40 / 0 °C	0.01 0.5 0.5 0.5	Battery fluids Ethylene glycol G13 Propylene glycol G11/12 windshield washer fluid	•	•			•
AdBlue/Urea	RF.6652	0 - 40 %	0.2		•	•		•	
Identification of precious stones	RF.6381	1.30 - 1.81 R.I.	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)

**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

Substance identification of sugar concentration

Judstance lacitum	cution of sugar con	centration		
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		

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, adjusting tool and with 0.5 ml calibration liquid





euromex 407

# 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	$\pm$ 180 $^{\circ}$	$\pm$ 0.1 $^{\circ}$ polar scale	•	•	
99.400-LED	± 180 °	± 0.1 ° polar scale	•		•



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			

# 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
• biochemistry	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

• 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

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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
<ul> <li>anatomopathology</li> </ul>	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 <sup>®</sup> , iScope <sup>®</sup> , 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®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series, 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



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# euromex MICROSCOPE COLLECTION 2023 • 2024





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