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CATALOGUE PRODUITS

MICROSCOPES D'ENSEIGNEMENT

Observation et découverte des sciences.
Microscopes et accessoires pour l'éducation.

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MICROSCOPE COLLECTION 2026

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bScope • bScope large samples • iScope • Achios-X Observer
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magnifiers & measuring microscopes
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about euromex

Euromex Microscopes 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 Duiven, the Netherlands. A facility with a 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

Explore Euromex's extensive product range in this comprehensive 2026 grand catalog or visit us online at **www.euromex.com**

Physix Photonics is an affiliated company of Euromex Microscopes and specializes in the production of optical components and optical assemblies. The offering varies from custom plan and curved optics to uniquely shaped optical elements, provided with optical coatings, covering wavelengths from deep ultraviolet (DUV) to infrared (IR). Euromex draws on the extensive expertise of Physix engineers to meet the stringent requirements for optical components used in microscopy manufacturing. For comprehensive details about Physix Photonics, please visit **www.physix.com**

Euromex Microscopes and Physix Photonics are both subsidiaries of **GSI Group Holdings**, a collection of leading brands serving the biotech, clinical diagnostics, life sciences, education and industrial sectors with a broad array of mission-critical laboratory-related consumable supplies, benchtop equipment and related accessories. GSI Group Holdings is headquartered in Irvine, California, USA. For more details about the brands and activities of the companies under GSI Group Holdings, please visit **www.gsigroupholdings.com**

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euromex.academy

Visit our academy for video tutorials and manuals

View the product videos on YouTube

choose the right microscope

microscope selector

We created 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 choice

SEE PAGE 410

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

SEE PAGE 418



BlueScope

FEATURED

BlueScope

Discover the new BlueScope microscopes on page 32

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

education

biological microscopes



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BIOLOGICAL MICROSCOPES



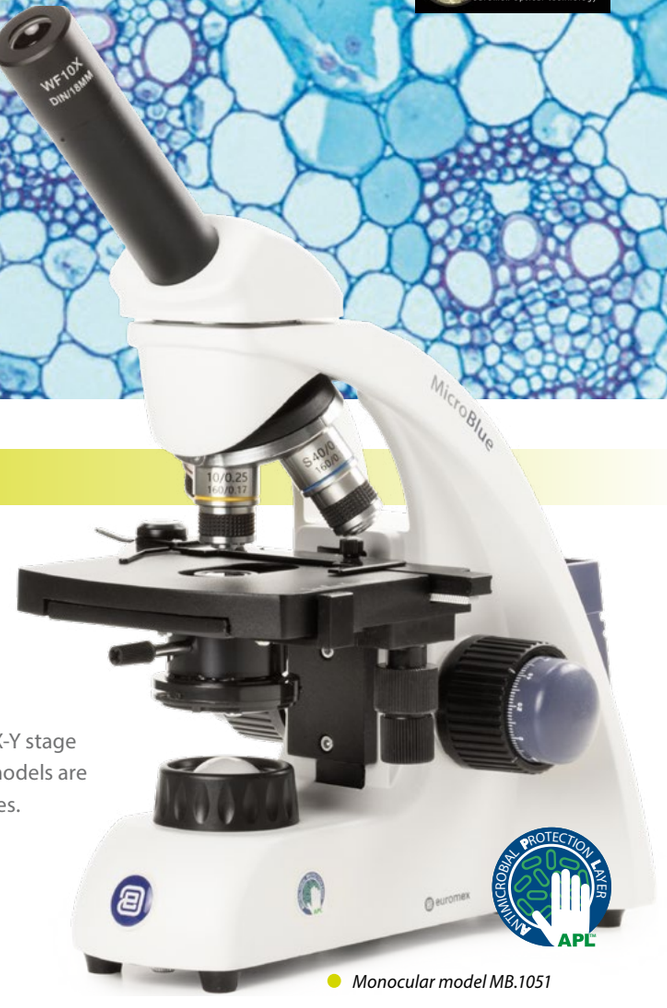
BlueLine DUTCH QUALITY

NeoLED™ euromex optical technology

MicroBlue

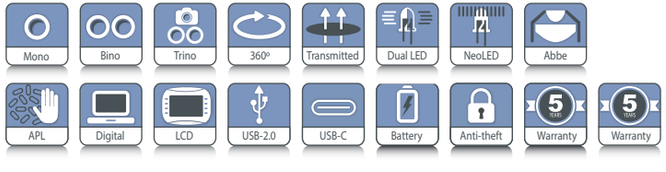
The modern MicroBlue is an entry-level microscope, especially appreciated when budgets are limited. The basic model comes with a fixed lens condenser and a plain stage

All models with an integrated mechanical X-Y 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*

product information



MONOCULAR MB.1001
298 (h) x 151 (w) x 202 mm (d) | 2.0 kg
MONO, MECHANICAL STAGE MB.1151
298 (h) x 151 (w) x 202 mm (d) | 2.2 kg
BINO, MECHANICAL STAGE MB.1152
298 (h) x 151 (w) x 202 mm (d) | 2.8 kg



● *Binocular model MB.1152*

HIGHLIGHTS

- **Entry-level microscopes**
- **New back panel with smart storage solutions**
- **Dual illumination system: white & halogen colored (Neo)LED™**
- **Universal USB-C 5V Power**
- **Mono, bino, trino and digital models**
- **Revolving reversed nosepiece**
- **Integrated mechanical X-Y stage**
- **LED and NeoLED™ illumination**
- **Cordless operation (except for the LCD models)**
- **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 ± 5 diopter adjustment on the 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 pixel 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

See chapter 8



● *Monocular head*



● *Binocular head*



● *Trinocular head*



● *Digital mono head*



● *Digital LCD head*

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

STAGE

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

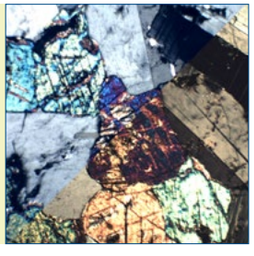
CONDENSER

Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder, except for the MB.1001(-LCD) model, which is equipped with a single N.A. 0.65 condenser with built-in iris diaphragm

DUAL ILLUMINATION SYSTEM

- 1 W white (Neo)LED(™): 6000 – 6500 K, ideal for standard observations with crisp, cool lighting
- 1 W halogen colored (Neo)LED(™): 3000 – 3200 K, enhances contrast for specific applications such as transparent objects

All MicroBlue microscopes are supplied with rechargeable AA batteries for cordless operation and with an external 5V DC power adapter



LED colored and halogen colored light

CAMERA AND SOFTWARE*

Models with an integrated 5.0 MP camera 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 images and videos, this software allows measurements on still and live images and annotations on captured images. Compatible with Windows 10 and higher, 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 fps, image resolution up to 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 100-240 Vac / 5 Vdc USB power adapter, USB-2 cable (except for the LCD models, which are supplied with an extra mains adapter), three rechargeable AA batteries, dust cover, user manual and 5 ml immersion oil for models with an S100x oil objective. Including a white filter. All packed in a polystyrene box

See chapter 8

MODELS	Mono	Bino	Trino	Digital mono	Digital LCD	Maximum objectives	4/10/S40x objectives	S60x objective	S100x oil objective	Mechanical X-Ystage	Dual color LED	Dual color 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	•		•	•		•	•

(1) MB.xxxx-1 = model with an integrated 1.3 MP CMOS USB-2.0 camera

(2) MB.xxxx-5 = model with an integrated 5.0 MP CMOS USB-2.0 camera

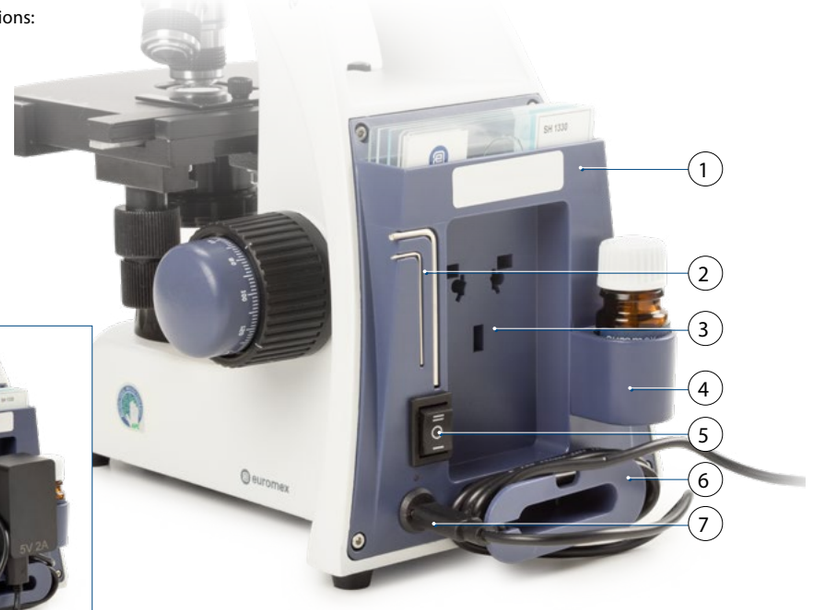
NEW BACK PANEL – ORGANIZED & EFFICIENT

The MicroBlue now features a revolutionary new back panel with smart storage solutions:

1. 5-slide specimen holder
2. Dual tool holders
3. Built-in power supply storage
4. Storage for immersion oil
5. Dual illumination switch
6. Integrated cable roll-up system
7. USB-C power input

(shown on a BioBlue)





ACCESSORIES AND SPARE PARTS

EYEPIECES

Ø 23.2 mm tube

AE.5571 Wide field eyepiece WF 5x/18 mm
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

OBJECTIVES

Achromatic, 35 mm parfocal

MB.7004 4x/0.10 objective
MB.7010 10x/0.25 objective
MB.7020 20x/0.40 objective
MB.7040 S40x/0.65 objective
MB.7060 S60x/0.85 objective
MB.7000 S100x oil/1.25 objective

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

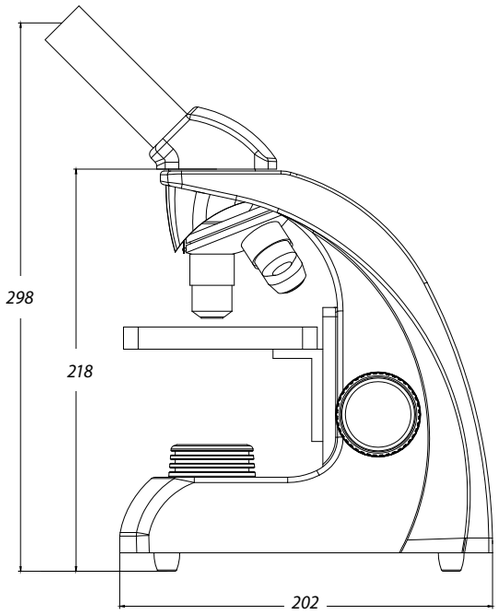
MISCELLANEOUS

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

DIMENSIONS



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

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



BIOLOGICAL MICROSCOPES



BlueLine DUTCH QUALITY

NeoLED™ euromex optical technology

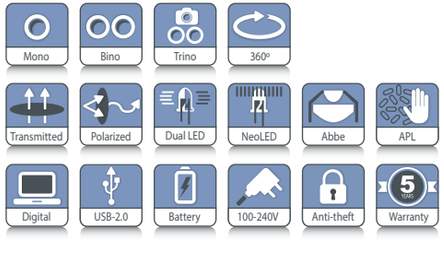
EcoBlue

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



● *EC.1001*

product information



MONOCULAR MODEL EC.1001
355 (h) x 170 (w) x 220 (d) | 2.48 kg
BINOCULAR MODEL EC.1152
360 (h) x 170 (w) x 214 (d) | 2.95 kg
POLARIZATION MODEL EC.1001-P-DLED
360 (h) x 170 (w) x 214 (h) | 3.35 kg

HIGHLIGHTS

- **Monocular, binocular and trinocular models with WF 10x/18 mm eyepiece(s)**
- **Models with integrated 5 MP CMOS camera**
- **Models for polarization applications**
- **Reversed revolving nosepiece for four objectives**
- **Coaxial coarse and fine adjustments with rack stop**
- **Height adjustable color coded Abbe condenser with iris diaphragm and filter holder**
- **Dual illumination system: white & halogen colored (Neo)LED(™)**
- **Cordless operation with rechargeable AA batteries with universal USB-C 5 Vdc charging port**
- **Multiplug 100-240 Vac / 5 Vdc adapter**
- **Ergonomic stand**
- **5 Years warranty**



● *EC.1101-P-DLED*

SPECIFICATIONS

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 the 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

Reversed 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 oil/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 mechanical X-Y stage available). Plain 123 x 128 mm stage with integrated 70 x 27 mm mechanical X-Y 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 color coded 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

DUAL ILLUMINATION SYSTEM

- 1 W white (Neo)LED(™): 6000 – 6500 K, ideal for standard observations with crisp, cool lighting
- 1 W halogen colored (Neo)LED(™): 3000 – 3200 K, enhances contrast for specific applications such as transparent objects

All models are supplied with three rechargeable AA batteries for cordless operation. Equipped with a universal USB-C 5 Vdc charging port and 100-240 Vac / 5 Vdc multiplug adapter

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 images and videos, this software allows measurements on still and live images and annotations on captured images. Compatible with Windows 10 and higher, both 32 and 64 bits configurations. See chapter 8 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 three rechargeable AA batteries, a 100-240 Vac / 5 Vdc USB-C multiplug adapter, white filter, dust cover, spare fuse, user manual. A 5 ml immersion oil for models with an S100x oil objective. All packed in a polystyrene box

ACCESSORIES AND SPARE PARTS

EYEPIECES

Ø 23.2 mm tube

AE.5571 Wide field eyepiece WF 5x/18 mm
EC.6010 WF 10x/18 mm eyepiece
EC.6010-P WF 10x/18 mm eyepiece with pointer
EC.6010-C WF 10x/18 mm eyepiece with crosshairs
EC.6015 WF 15x/12 mm eyepiece
EC.6110 WF 10x/18 mm eyepiece with micrometer 10/100
EC.6099 Pair of eyecups

OBJECTIVES

Achromatic, 45 mm parfocal

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

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-DL 1 W Dual Color LED replacement unit*
EC.9991-DL 1 W Dual Color NeoLED™ replacement unit *
EC.9975-DL External 100-240 Vac (50/60 Hz)/ 5 Vdc USB-C multiplug adapter*
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

WF = wide field
WD = working distance
** Not compatible with EcoBlue revision 1 models*

See chapter 8

MODELS	Mono	Bino	Trino	Digital	4/10/40x objectives	S60x objective	S100x objective	Mechanical X-Y stage(1)	Dual color LED	Dual color NeoLED™
EC.1001	•				•				•	
EC.1101	•				•		•		•	
EC.1601	•				•	•			•	
EC.1005	•			•	•				•	
EC.1105	•			•	•		•		•	
EC.1607		•		•	•	•				•
EC.1051	•				•			•	•	
EC.1151	•				•		•	•	•	
EC.1651	•				•	•		•	•	
EC.1152		•			•		•	•		•
EC.1652		•			•	•		•		•
EC.1053			•		•			•		•
EC.1153			•		•		•	•		•
EC.1055	•			•	•			•	•	
EC.1155	•			•	•		•	•	•	
EC.1157		•		•	•	•		•		•
EC.1657		•		•	•	•		•		•

POLARIZATION MODELS

MODELS	Mono	Bino	Trino	SMP Semi plan 4/10/40x objectives	SMP Semi plan S60x objective	SMP Semi plan S100x objective	Round stage for polarization(2)	Dual color LED	Dual color NeoLED™
EC.1001-P-DLED	•			•				•	
EC.1601-P-DLED	•			•	•			•	
EC.1101-P-DLED	•			•		•		•	
EC.1002-P-DLED		•		•					•
EC.1602-P-DLED		•		•	•				•
EC.1102-P-DLED		•		•		•			•
EC.1003-P-DLED			•	•					•
EC.1603-P-DLED			•	•	•				•
EC.1103-P-DLED			•	•		•			•

(1) Integrated mechanical X-Y stage with 70 x 27 mm X-Y travel range
(2) Polarization models are supplied with a 129 mm round stage and DLED illumination (similar light spectrum as halogen)

POLARIZATION ATTACHMENTS

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

CAMERA ACCESSORIES

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



EC.1152

DISPOSABLES

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

PB.5157-W Microscope slides 76 x 26 mm, ground edges. 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, ground 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)

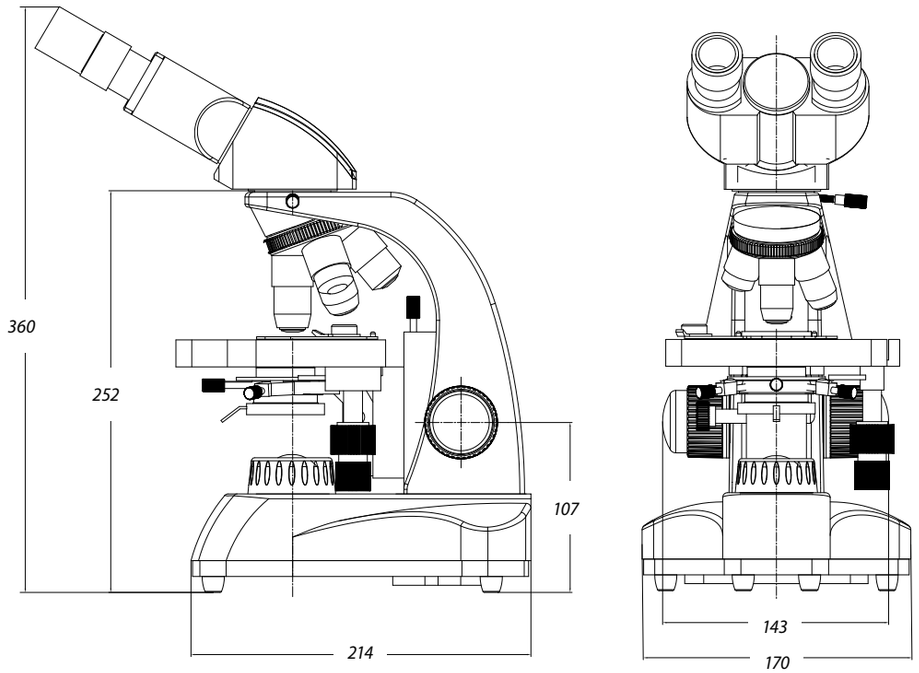
PB.5274 Isopropyl alcohol 99% (200 ml)

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

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

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DIMENSIONS





about
objectives

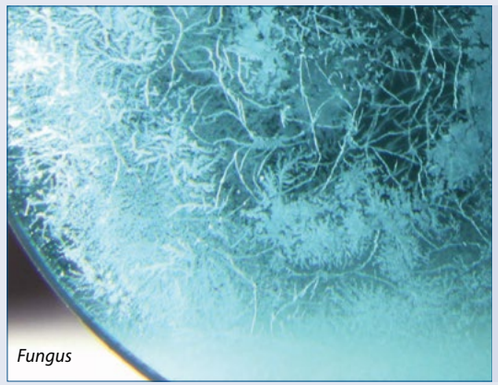
Most common microscope objectives come in different types:

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

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


Fungus

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

BIOLOGICAL MICROSCOPES



BlueLine DUTCH QUALITY

NeoLED™ euromex optical technology

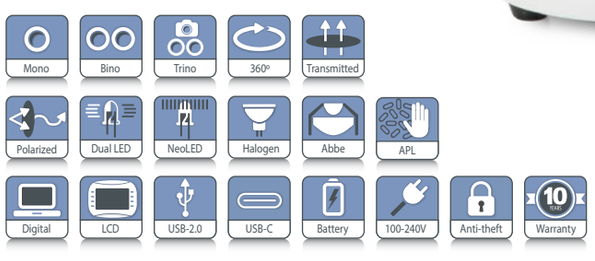
BioBlue

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.4240

product information



BB.4200 MONOCULAR
320 (h) x 176 (w) x 227 mm (d) | 3.0 kg
BB.4260 BINOCULAR
360 (h) x 176 (w) x 227 mm (d) | 4.0 kg
BB.4200-P-DLED POLARIZATION
360 (h) x 176 (w) x 227 mm (d) | 4.4 kg



Smart storage solutions

HIGHLIGHTS

- Mono, bino and trinocular models
- BioBlue EVO models with WF 10x/20 mm eyepieces and Köhler NeoLED™ illumination
- Models with integrated 5.0 MP CMOS camera with a 7" LCD screen or a tablet
- Cordless operation with rechargeable AA batteries
- Universal USB-C 5 Vdc charging port
- Multiplug 100-240 Vac / 5 Vdc adapter
- Back panel with smart storage solutions
- Height adjustable color coded Abbe condenser with iris diaphragm and filter holder
- Quick focus aid
- Reversed nosepiece for four Semi Plan objectives
- Integrated mechanical X-Y stage
- Dual illumination: white & halogen colored 1 W LED
- Warrenty 10 Years

SPECIFICATIONS

EYEPIECE(S)

Wide field WF 10x/18 mm secured eyepieces 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

HEADS

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 ± 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



Mono head



Digital mono

See chapter 8



Binohead



Digital bino

See chapter 8



Trino head



Tablet head

See chapter 8



Discussion



LCD head

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. The BioBlue is equipped with a quick focus aid

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 non-removable object clamps. The models for polarization are supplied with 129 mm circular stage, 360° rotatable and two object clamps

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

DUAL ILLUMINATION SYSTEM

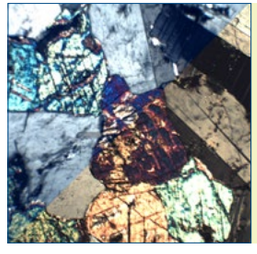
- 1 W white (Neo)LED(™): 6000 – 6500 K, ideal for standard observations with crisp, cool lighting
- 1 W halogen colored (Neo)LED(™): 3000 – 3200 K, enhances contrast for specific applications such as transparent objects

The polarization models are also supplied with the double LED illumination for correct color rendering (very similar to the halogen light spectrum)

The EVO models are equipped with Köhler NeoLED™ illumination

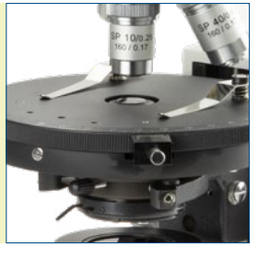


Quick focus aid

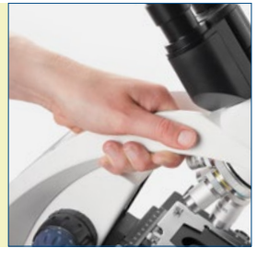


White colored and halogen colored light

360° rotatable circular stage for polarization



The ergonomic carrying grip enables easy transportation



NEOLED™ ILLUMINATION

Binocular and trinocular models are supplied with an adjustable NeoLED™ illumination system for increased light output

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 10 and higher, 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 100-240 Vac / 5 Vdc USB multi-plug power adapter, three rechargeable type AA batteries, dust cover, a spare fuse, white filter, user manual and 5 ml immersion oil for models with S100x oil objective. Polarization models are supplied with a crosshairs eyepiece. All packed in a polystyrene box

NEW BACK PANEL – ORGANIZED & EFFICIENT

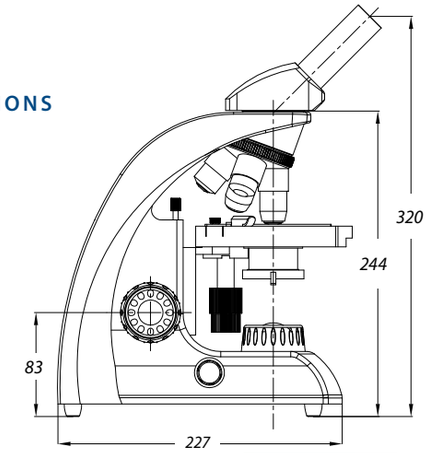
The BioBlue now features a revolutionary new back panel with smart storage solutions:

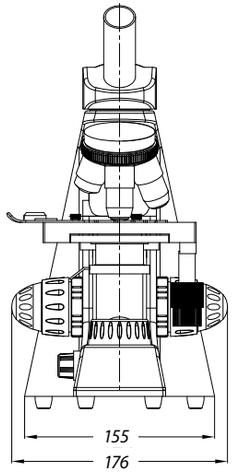
1. 5-slide specimen holder
2. Dual tool holders
3. Built-in power supply storage
4. Storage for immersion oil
5. Dual illumination switch
6. Integrated cable roll-up system
7. USB-C power input





DIMENSIONS





See chapter 8

MODELS	Mono	Bino	Trino	Digital	4/10/S40x SMP objectives	S60x SMP objective	S100x oil SMP objective	Mechanical X-Y stage	Dual color LED	Dual color Neo-LED™	Köhler illumination[1]	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.4267-T		•		•[4]	•		•	•		•		
BB.4269		•		•	•	•		•		•		
BB.4269-T		•		•[4]	•	•		•		•		
BB.4200-LCD				•[3]	•				•			
BB.4220-LCD				•[3]	•			•	•			
BB.4220-P-DLED	•				•				•			•
BB.4240-P-DLED	•				•	•			•			•
BB.4250-P-DLED	•				•		•		•			•
BB.4261-P-DLED		•			•					•		•
BB.4263-P-DLED		•			•	•				•		•
BB.4260-P-DLED		•			•		•			•		•
BB.4241-P-DLED			•		•					•		•
BB.4243-P-DLED			•		•	•				•		•
BB.4253-P-DLED			•		•		•			•		•

[1] *EVO models are supplied with WF 10x/20 mm eyepieces and Köhler NeoLED™ illumination*
[2] *Polarization models are supplied with DLED illumination - very similar light spectrum to the halogen illumination - and an eyepiece with crosshairs*
[3] *Models with a 7" LCD screen, 1920 x 1080 pixels, SD card for images and video*
[4] *Models with a tablet*

ACCESSORIES AND SPARE PARTS

EYEPIECES

Ø 23.2 mm tube

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*
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*
AE.5582 Wide field eyepiece WF 20x/11.5 mm
AE.5582-E Wide field eyepiece WF 20x/12.5 mm*
AE.5365 Eyecup for eyepiece
AE.5365-E Pair of eyecups for eyepieces*
AE.1110 Stage micrometer 1 mm/ 100 parts

** for BioBlue EVO*



AE.5151
AE.5152



AE.5155-P

OBJECTIVES

Semi Plan SMP, 45 mm parfocal

AE.5591 4x/0.10 SMP objective. WD 37.5 mm
AE.5593 10x/0.25 SMP objective. WD 6.5 mm
AE.5594 20x/0.40 SMP objective. WD 1.2 mm
AE.5597 S40x/0.65 SMP objective. WD 0.7 mm
AE.5599 S60x/0.75 SMP objective. WD 0.2 mm
AE.5601 S100x/1.25 oil immersion SMP objective. WD 0.2 mm



AE.5158-P



AE.5156

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

CAMERA ACCESSORIES

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

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.5227 Fuse 1 A 250 V, 10 pieces
AE.9981-DL 1 W Dual Color LED replacement unit*
AE.9991-DL 1 W Dual Color NeoLED™ replacement unit *
AE.9975-DL External 100-240 Vac (50/60 Hz)/ 5 Vdc USB-C multiplug adapter*

** Not compatible with BioBlue revision 1 models with single color LED's*

DISPOSABLES

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



BB.4300

AE.9918



PB.5267

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about
field of view

Field of view (FOV) is the visible area when looking through the microscope eyepiece (eyepiece FOV) or camera (camera FOV) and is usually expressed as a diameter

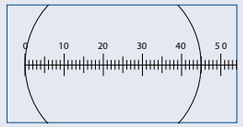
CALCULATING FOV OF AN EYEPIECE

The FOV through an eyepiece is equal to:

$$FOV = \frac{\text{Field Number}}{\text{Object Magnification}}$$

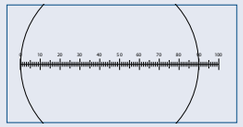
Field number (FN) is usually engraved on the eyepiece as a figure next to the magnification and expressed in mm, e.g. WF 10x/18. A 10x/18 eyepiece with a 40x objective will have a FOV = 18 mm / 40 = 0.45 mm or 450 nm

450 nm FOV with 10x/18 eyepiece and S40x objective



Micrometer stage 1 mm/100

900 nm FOV with 10x/18 eyepiece and S20x objective

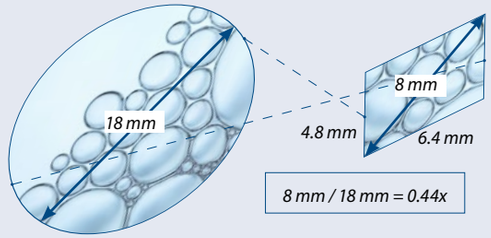


Micrometer stage 1 mm/100

EYEPIECE VERSUS CAMERA FOV

Circular FOV through a WF10x/18 eyepiece

1/2 camera sensor and its rectangular FOV

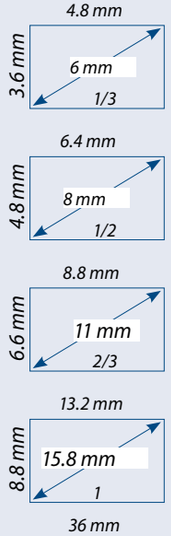


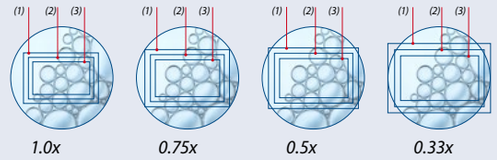
Furthermore, the circular eyepiece FOV is much larger than the camera FOV and thus the microscope FOV must be "reduced" with a so-called "relay" lens or "photo-adapter". However - in order to avoid vignetting (dark shadows in the corners of an image), the circular microscope FOV must be projected just outside the image sensor area. Subsequently the camera FOV will always be smaller than the microscope FOV by 50 to 60%

FIELD OF VIEW WITH CAMERA

Most commercially available microscope digital cameras use 1/3, 1/2- or 2/3-inch rectangular sensors. A few will use a 1 inch camera sensor

As a consequence, a rectangular camera sensor cannot capture the circular FOV that exits from a eyepiece, microscope third tube or photo port





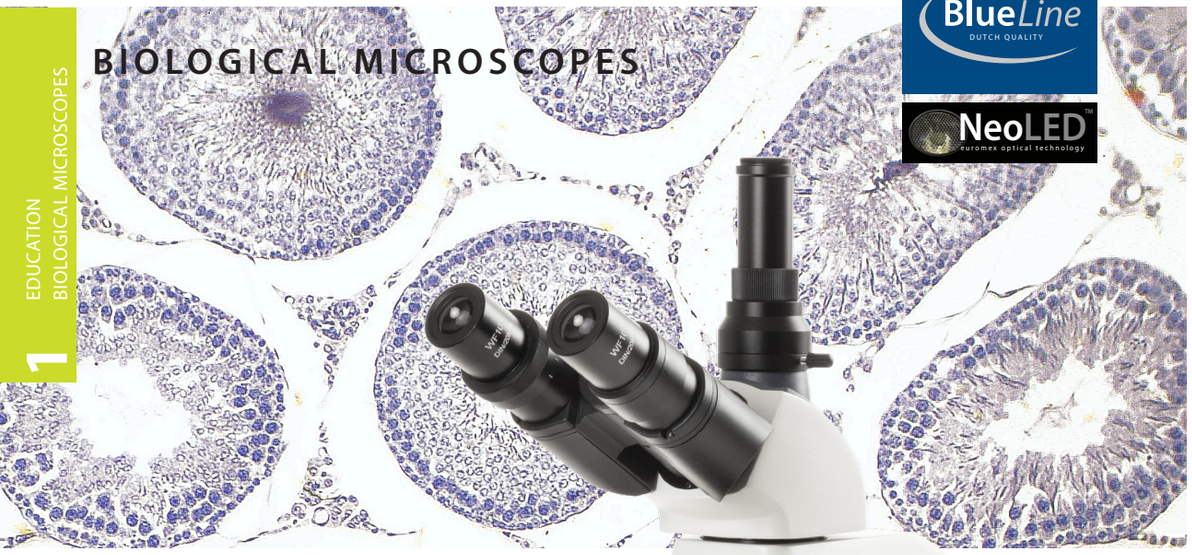
(1) = 2/3", (2) = 1/2" and (3) = 1/3"

Figure: different camera sensor sizes (2/3, 1/2, 1/3 inch) with different demagnifying" lenses (C-mount photo-adapters) 0.33x, 0.50x, 0,75x and 1.0x

IN ORDER TO OBTAIN THE DESIRED FIELD OF VIEW WITHOUT VIGNETTING USE:

a 0.33 x photo adapter for cameras with a 1/3 sensor
a 0.50 x photo adapter for cameras with a 1/2 sensor
a 0.75 photo adapters for cameras with a 2/3 sensor
a 1.0x or 1.2x photo adapters for cameras with a 1"
or larger camera sensor

BIOLOGICAL MICROSCOPES



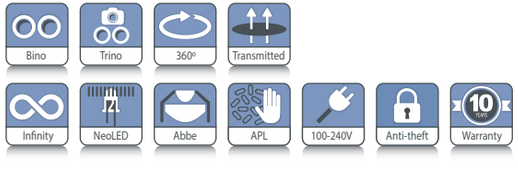
BioBlue.Lab

The 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.1153-PLi

product information



BB.1152-PLi
377 (h) x 205 (w) x 260 mm (d) | 5.4 kg
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 and plan IOS objectives**
- **Infinity and non-infinity optical system**
- **Integrated rackless mechanical X-Y stage**
- **3 W NeoLED™ illumination**
- **Ergonomic carrying grip**
- **10 Years warranty**



BioBlue *BioBlue.Lab*

SPECIFICATIONS

These ergonomic easy-to-use microscopes have been designed specifically for laboratory and university applications

An important feature of the BioBlue.Lab is the rackless stage. The 150 x 140 mm stage has an integrated rackless mechanical X-Y stage with 75 x 30 mm travel range, which provides a smooth translation of the specimen and highly precise positioning. This feature 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

All models have 30° inclined Ø 30 mm tubes. The interpupillary distance is adjustable between 48 to 75 mm. All models have a ±5 diopter adjustment on the 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

All 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 oil 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

NEOLED™ ILLUMINATION

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

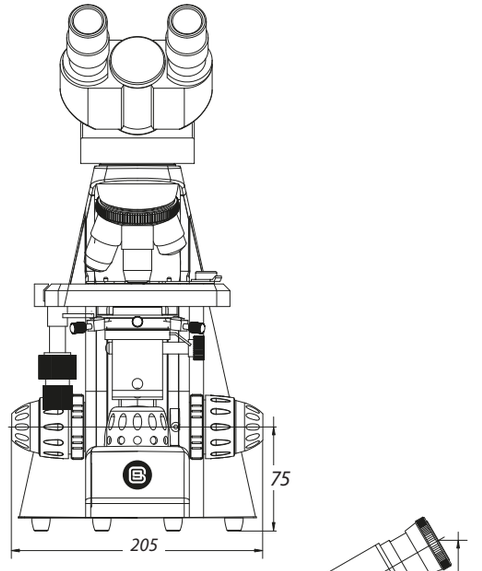
ANTI-THEFT SLOT

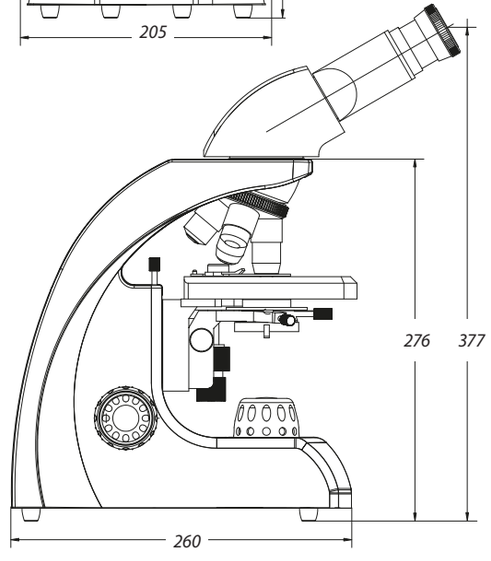
At the back of the microscope a Kensington Security slot is placed, which can be used to secure the instrument from theft

PACKAGE CONTENT

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

DIMENSIONS





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

ACCESSORIES AND SPARE PARTS

EYEPIECES

Ø 30 mm tube

BB.6010 WF (wide field) 10x/20 mm eyepiece
BB.6110 WF 10x/20 mm micrometer eyepiece with focusable lens, Ø 30 mm tube
BB.6015 WF 15x/15 mm eyepiece
BB.6020 WF 20x/11 mm eyepiece
BB.6099 Pair of eyecups

OBJECTIVES

Plan PL, 45 mm parfocal

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

Plan PLi, IOS infinity corrected, 45 mm parfocal

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

WD = working distance

MISCELLANEOUS

BB.9602 Analyzer in slider, Ø 25 mm. Fits in nosepiece
BB.9732 Polarization filter, Ø 32 mm. Fits in filter holder
BB.9880 Köhler attachment
BB.9993 3 W NeoLED™ replacement unit
BB.9707 White filter Ø 32 mm. Fits in filter holder
AE.5227 Fuse 1 A 250 V, 10 pieces
BB.9900 Aluminum case
AE.9919 Nylon bag for BioBlue.Lab, 58(h) x 32(w) x 24(d)

CAMERA ACCESSORIES

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

DISPOSABLES

PB.5155 Microscope slides 76 x 26 mm, ground edges, 50 pieces per pack
PB.5157-W Microscope slides 76 x 26 mm, ground edges. 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, ground 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 pieces: cleaning brush, screwdriver set of 6, air blower, 3 Allen keys, 1.5, 2, 2.5 mm, lens cleaning fluid 20 ml, cleaning cloth 140 x 140 mm, 100 lens tissue sheets, tube of maintenance grease, 10 ml bottle of oil, packed in a nice toolbox

BIOLOGICAL MICROSCOPES

BlueScope

NeoLED™ euromex optical technology



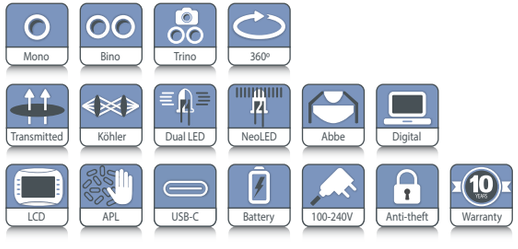


BlueScope

The all new microscopes of the BlueScope series are designed for education and professional use. Focus on durability and safety while maintaining the highest quality standards. These microscopes are equipped with secured eyepieces and rackless stage for safety. A color-coded condenser, quick focus aid and storage compartment for accessories make this microscope ideal for students

● *BL.1152*

product information



BL.XXX1 MONO	370 (h) x 169 (w) x 205 mm (d) | 2.8 kg
BL.XXX2 BINO	365 (h) x 169 (w) x 205 mm (d) | 4.2 kg
BL.XXX3 TRINO	409 (h) x 169 (w) x 205 mm (d) | 4.3 kg

HIGHLIGHTS

- **WF 10x/20 mm eyepieces**
- **Models with an integrated 5.0 MP CMOS camera, with a 7" LCD screen or tablet**
- **Universal USB-C 5V charging port**
- **Smart storage compartment**
- **Slot for polarization filter**
- **Integrated mechanical X-Y stage**
- **Color-coded height adjustable condenser**
- **Köhler illumination**
- **Dual colored illumination: 3 W white & halogen colored NeoLED™**
- **Quick focus aid**
- **10 Years warranty**



● *The back of the BlueScope*

SPECIFICATIONS

EYEPIECE(S)

Wide field WF 10x/20 mm secured eyepieces.
The eyepiece of monocular models is supplied with pointer

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 ± 5 diopter adjustment on both tubes
- All heads are 360° rotatable. The trinocular head has a fixed light path beam splitter (50:50) and generates an erect image
- The BlueScope can also be supplied with a discussion head
- Models with an integrated 5.0 MP CMOS camera, with a 7" LCD screen or tablet available (See chapter 8)

NOSEPIECE

Reversed quadruple nosepiece on ball bearings

OBJECTIVES - 45 MM PARFOCAL

All models are supplied with Semi Plan 4x/0.10, 10x/0.25 and S40x/0.65 objectives. The S40x, S60x (optional) and S100x (optional) 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 100 graduations. Precision 2 µm per graduation, 0.2 mm per rotation. Total travel range is approximately 10 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. Improved coarse & fine adjustment, which is equipped with tension control. With quick focusing aid for finding the slides focusing region with ease

STAGE

Rackless 140 x 135 mm stage with mechanical 70 x 50 mm X-Y translation stage

CONDENSER

Color coded, height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder

KÖHLER ILLUMINATION

Köhler illumination ensures 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

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

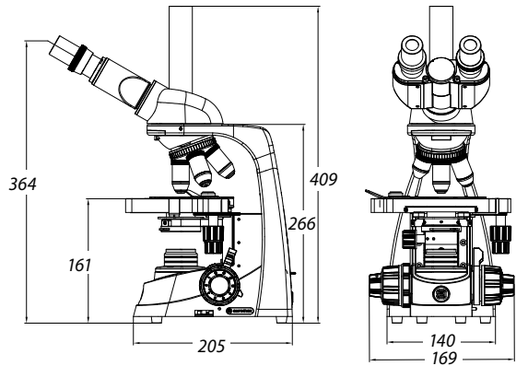
DUAL ILLUMINATION SYSTEM

- 3 W white NeoLED™: 6000 – 6500 K, ideal for standard observations with crisp, cool lighting
- 3 W halogen colored NeoLED™: 3000 – 3200 K, enhances contrast for specific applications such as transparent objects

PACKAGE CONTENT

Supplied with blue filter, Allen key, 5 ml immersion oil, 100-240 Vac / 5 Vdc USB multi-plug power adapter, 3 rechargeable type AA batteries, manual and dust cover

DIMENSIONS



MODELS	Mono	Bino	Trino	Digital	Digital tablet	Digital 7" LCD	4/10/40x objectives	S60x objective	S100x objective	Mechanical X-Y Stage	Dual color NeoLED™
BL.1051	•						•			•	•
BL.1151	•						•		•	•	•
BL.1651	•						•	•		•	•
BL.1152		•					•		•	•	•
BL.1652		•					•	•		•	•
BL.1153			•				•		•	•	•
BL.1653			•				•	•		•	•
BL.1055	•			•			•			•	•
BL.1057		•		•			•			•	•
BL.1057-T		•			•		•			•	•
BL.1050-LCD						•	•			•	•

See chapter 8

ACCESSORIES

EYEPIECES

Ø 23.2 mm tube

BL.6010 WF 10x/20 mm eyepiece
BL.6010-P WF 10x/20 mm eyepiece with pointer
BL.6010-M WF 10x/20 mm eyepiece with micrometer scale
BL.6015 WF 15x/13 mm eyepiece
BL.6020 WF 20x/12 mm eyepiece
BL.6025 WF 25x/8 mm eyepiece
BL.6099 Pair of eyecups

OBJECTIVES

SMP Semi Plan objectives

BL.7104 4x/0.10 SMP objective. WD 16 mm
BL.7110 10x/0.25 SMP objective. WD 4.60 mm
BL.7120 20x/0.40 SMP objective. WD 0.90 mm
BL.7140 S40x/0.65 SMP objective. WD 0.68 mm
BL.7160 S60x/0.85 SMP objective. WD 0.60 mm
BL.7100 S100x/1.25 oil immersion objective. WD 0.21 mm

WD = working distance

MISCELLANEOUS

BL.9700 Blue filter
BL.9710 Frosted white filter
BL.9981 3 W NeoLED™ replacement unit
BL.9900 Aluminum case
AE.9918 Nylon microscope bag

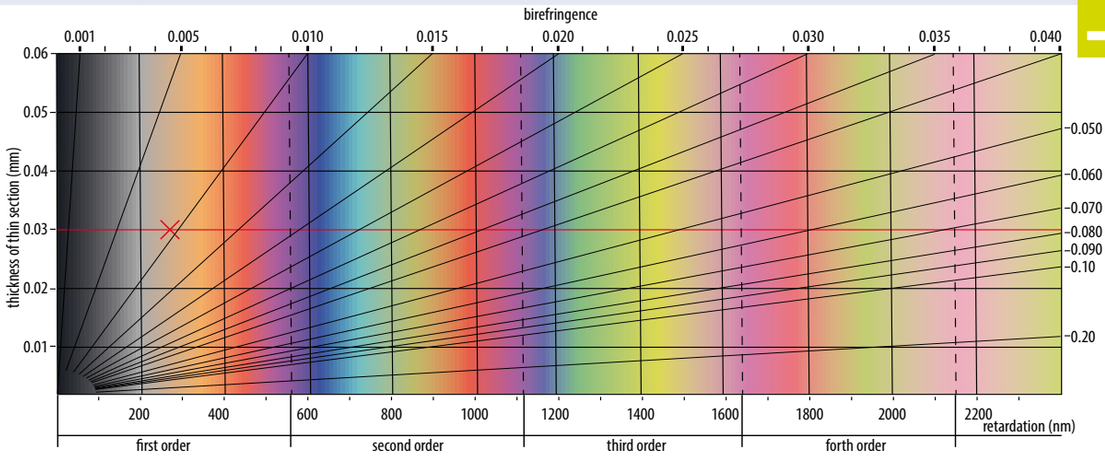
about

dual colored LED

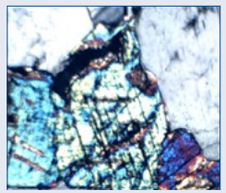
Benefits to have dual colored LED Illumination 6000 K (cool white) and 3200 K (warm white)) in petrology and general microscopy

In petrology, the ability to switch between these color temperatures allows for optimized visualization of different mineral compositions: **6000 K** enhances contrast and clarity of fine crystal structures, while **3200 K** improves the visibility of features in darker or iron-rich minerals. The 3200 K light enables the correct color comparison with the Michel-Lévy table

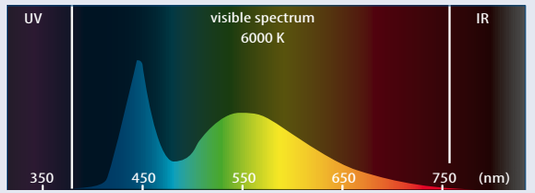
Michel-Lèvy table

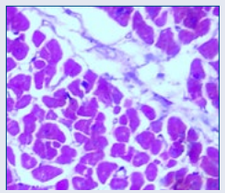


In brightfield microscopy, the dual illumination system enables accurate color rendering across a range of specimens and staining types, improving observational quality under varying sample conditions. The 6000 K setting enhances resolution and contrast, particularly useful for unstained or weakly stained specimens by improving the visibility of fine structural details. Conversely, the 3200 K setting provides more accurate color rendering for stained biological samples and reduces glare or oversaturation in pigmented tissues

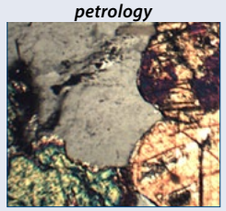


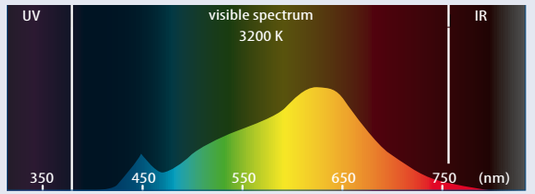
petrology

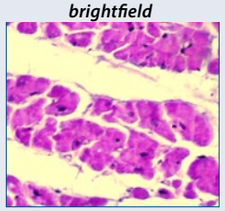




brightfield







BIOLOGICAL MICROSCOPES



bscope

NeoLED™ euromex optical technology

bScope

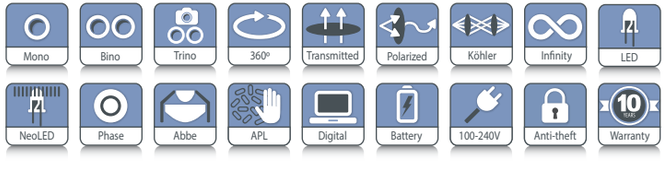
The well-equipped, versatile and evolutive microscopes of the bScope series are intensively used in secondary schools, universities, small to mid-sized laboratories and for veterinary applications

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*

product information



BS.1151-XXX MONOCULAR
385 (h) x 195 (w) x 235 (d) | 6.3 kg
BS.1152-XXX BINOCULAR
409 (h) x 195 (w) x 235 (d) | 6.5 kg
BS.1153-XXX TRINOCULAR
459 (h) x 195 (w) x 235 (d) | 6.6 kg



● *BS.1152-PLi* ● *BS.1151-EPL*

HIGHLIGHTS

- **Monocular, binocular and trinocular models**
- **Digital models available**
- **HWF 10x/20 mm eyepieces**
- **Diopter adjustment on both tubes**
- **Reversed ball-bearing quadruple or quintuple nosepiece**
- **E-plan, E-plan IOS and plan IOS objectives**
- **Plan phase IOS objectives**
- **Color coded condenser**
- **Integrated rackless mechanical X-Y stage**
- **3 W NeoLED™ adjustable illumination system**
- **Integrated carrying grip**
- **Cable Storage System and anti-theft system**
- **10 Years warranty**

SPECIFICATIONS

EYEPIECE(S)

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

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 8)

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, 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: 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 rackless mechanical X-Y stage, Vernier scale and soft-close removable specimen holder. The rackless stage has no protruding parts, enables smooth movements and is safer in use. Low-positioned 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. The condenser is color coded. Optionally available swing-out Abbe condenser (BS.9105)

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™ are the low energy consumption, no heating and a long operating life span

KÖHLER ILLUMINATION

A Köhler illumination ensures for all infinity corrected IOS models the highest possible contrast and the maximum achievable resolving power. 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 (BS.9105)



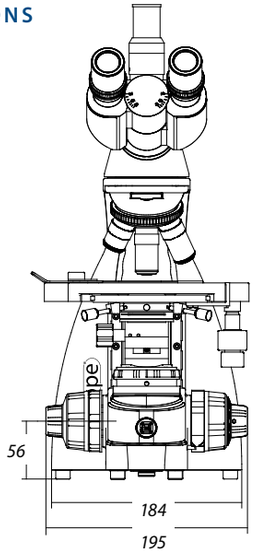
Ergonomic carrying grip for easy transportation

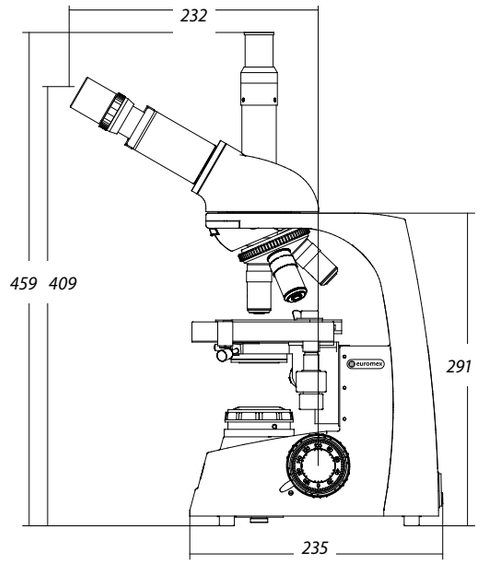
PACKAGE CONTENT

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

DIMENSIONS





FOR BRIGHTFIELD

See chapter 8

MODELS	Mono	Bino	Trino	Digital	HWF 10x/20 mm eyepieces	Quadruple nosepiece E-plan 4/10/S40/ S100x	Quadruple nosepiece plan IOS 4/10/S40/ S100x	Quintuple nosepiece E-plan IOS 4/10/S40/ 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.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 rackless mechanical X-Y stage
** Models are equipped with Köhler NeoLED™*
Rechargeable batteries are optional for all models

ACCESSORIES AND SPARE PARTS

EYEPIECES

Ø 23.2 mm tube

BS.6010 HWF 10x/20 mm eyepiece
BS.6010-P HWF 10x/20 mm with pointer
BS.6010-C HWF 10x/20 mm eyepiece with crosshairs
BS.6010-CM HWF 10x/20 mm eyepiece with 10/100 micrometer and crosshairs
BS.6012 WF 12.5x/14 mm eyepiece
BS.6015 WF 15x/11 mm eyepiece
BS.6020 WF 20x/11 mm eyepiece
BS.6099 Pair of eyecups for BS.6010
BS.6099-S Pair of eyecups for BS.6012 and BS.6015

OBJECTIVES

E-Plan EPL, 45 mm parfocal

BS.7104 4x/0.10 EPL objective. WD 37.0 mm
BS.7110 10x/0.25 EPL objective. WD 6.61 mm
BS.7120 20x/0.40 EPL objective. WD 1.85 mm
BS.7140 S40x/0.65 EPL objective. WD 0.64 mm
BS.7160 S60x/0.85 EPL objective. WD 0.20 mm
BS.7100 S100x/1.25 EPL oil objective. WD 0.19 mm
86.521 S100x/1.25 EPL oil objective with built-in iris diaphragm. WD 0.33 mm

E-Plan infinity corrected EPLi, IOS 45 mm parfocal

BS.8204 4x/0.10 IOS EPLi objective. WD 18.9 mm
BS.8210 10x/0.25 IOS EPLi objective. WD 5.95 mm
BS.8220 20x/0.40 IOS EPLi objective. WD 2.61 mm
BS.8240 S40x/0.65 IOS EPLi objective. WD 0.78 mm
BS.8200 S100x/1.25 IOS EPLi oil objective. WD 0.36 mm

Plan infinity corrected PLi, IOS 45 mm parfocal

BS.8404 4x/0.10 IOS PLi objective. WD 21.0 mm
BS.8410 10x/0.25 IOS PLi objective. WD 5.0 mm
BS.8420 20x/0.40 IOS PLi objective. WD 8.8 mm
BS.8440 S40x/0.65 IOS PLi objective. WD 0.66 mm
BS.8460 S60x/0.80 infinity corrected IOS PLi objective. WD 0.46 mm
BS.8400 S100x/1.25 IOS PLi oil objective. WD 0.36 mm

WD = working distance

CONDENSERS

BS.9102 Abbe condenser 1,25 NA with slot for darkfield and phase contrast sliders
BS.9170 Darkfield stop for BS.9102 condenser
BS.9105 Swing-out Abbe condenser 0.9/1.25 NA
BS.9164 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
BS.9194 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 X-Y stage
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
BS.9994 Halogen-NeoLED™ replacement unit
AE.1370 Set of rechargeable AA batteries, 3 pieces
AE.5226 Glass fuses 3A 250V, 10 pieces

DISPOSABLES

PB.5155 Microscope slides 76 x 26 mm, ground edges, 50 pieces per pack
PB.5157-W Microscope slides 76 x 26 mm, ground edges. 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, ground 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
PB.5274 Isopropyl alcohol 99% (200 ml)

PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissues/paper, brush, air blower, cotton swabs
PB.5276 Microscope maintenance and servicing kit, 16 pieces: cleaning brush, screwdriver set of 6, air blower, 3 Allen keys, 1.5, 2, 2.5 mm, lens cleaning fluid 20 ml, cleaning cloth 140 x 140 mm, 100 lens tissue sheets, tube of maintenance grease, 10 ml bottle of oil, packed in a nice toolbox

For phase contrast attachments and accessories *see chapter 4*



AE.5152-N, small rotatable stage



CSS – Cable Storage System

BIOLOGICAL MICROSCOPES

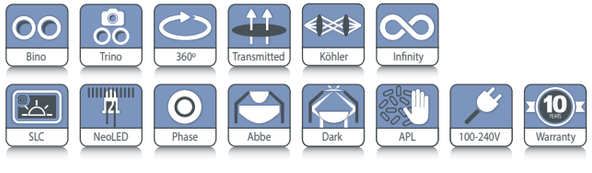


iScope

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

product information





● *IS.1153-PLi*

IS.1153-PLi
480 (h) x 210 (w) x 255 (d) mm | 9.0 kg



● *IS.1152-PLPHi*

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 ± 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 ± 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 ± 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

** 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 mechanical X-Y stage
- 187/230 x 140 mm rackless stage equipped with double slide holder and integrated 79 x 52 mm mechanical X-Y stage. The iScope rackless stage has no protruding parts, enables smoother movements and is safer
- 220 x 157 mm ceramic stage with integrated 75 x 50 mm mechanical X-Y 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

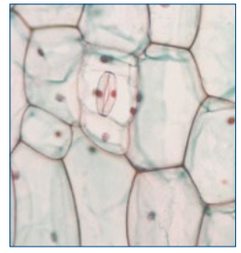
An optional height adjustable Zernike NA. 1.25 phase contrast disc condenser with plan phase 10/20/S40x and S100x oil immersion objectives and darkfield stop position for darkfield contrast up to 400x magnification

FOCUSING

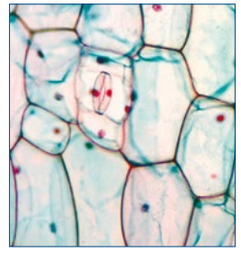
Coaxial coarse and fine adjustments, 200 graduations, 1 µm per graduation, 200 µm per rotation, total travel range is approximately 24 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control

NEOLED™ 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



Normal LED



NeoLED™



IS.1152-EPL

ICARE SENSOR

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

CSS – CABLE STORAGE SYSTEM

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

PACKAGE CONTENT

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



iCare sensor

ISCOPE FOR LIFE SCIENCE (FINITY MODELS)

MODELS	Binocular	Trinocular	Phase contrast	EWF 10x20 mm	E-plan objectives	Plan phase objectives	Mechanical X-Y 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 X-Y stage	iCare Sensor	Köhler LED
IS.1152-EPLi	•			•	•			•	•	
IS.1153-EPLi		•		•	•			•	•	
IS.1152-PLi	•			•*		•		•	•	•
IS.1153-PLi		•		•*		•		•	•	•
IS.1152-PLPHi	•		•	•*			•	•	•	•
IS.1153-PLPHi		•	•	•*			•	•	•	•

**Two tubes with diopter adjustments*

ISCOPE FOR LIFE SCIENCE (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	•	•	•	•	•	•

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-PLi/T	2	1x	1x	•	•	•	•



IS.115x-EPL stage



IS.115x-PLi rackless stage

ACCESSORIES AND SPARE PARTS

EYEPIECES

Ø 23.2 mm tube

IS.6010 EWF 10x/20 mm eyepiece
IS.6010-P EWF 10x/20 mm eyepiece with pointer
IS.6010-C EWF 10x/20 mm eyepiece with crosshairs
IS.6010-CM EWF 10x/20 mm eyepiece with 10/100 micrometer and cross
IS.6015 WF 15x/16 mm eyepiece
IS.6099 Pair of eyecups

Ø 30 mm tube

IS.6210 EWF 10x/22 mm eyepiece
IS.6210-C EWF 10x/22 mm eyepiece with crosshairs
IS.6210-P EWF 10x/22 mm eyepiece with pointer
IS.6210-CM EWF 10x/22 mm eyepiece with 10/100 micrometer and crosshairs
IS.6212 WF 12.5x/17 mm eyepiece
IS.6215 WF 15x/16 mm eyepiece
IS.6215-CM WF 15x/16 mm eyepiece with 10/100 micrometer and crosshairs
IS.6220 WF 20x/12 mm eyepiece
IS.6299 Pair of eyecups for infinity models

OBJECTIVES

E-Plan EPL, 45 mm parfocal

IS.7104 4x/0.10 EPL objective. WD 15.2 mm
IS.7110 10x/0.25 EPL objective. WD 5.5 mm
IS.7120 20x/0.40 EPL objective. WD 3.5 mm
IS.7140 S40x/0.65 EPL objective. WD 0.45 mm
IS.7160 S60x/0.85 EPL objective. WD 0.19 mm
IS.7100 S100x/1.25 EPL oil objective. WD 0.13 mm

Plan Phase contrast PLPH, 45 mm parfocal

IS.7710 10x/0.25 PLPH objective. WD 12.2 mm
IS.7720 20x/0.40 PLPH objective. WD 5 mm
IS.7740 S40x/0.65 PLPH objective. WD 0.37 mm
IS.7700 S100x/1.25 PLPH oil objective. WD 0.13 mm

E-plan infinity corrected EPLi, IOS 45 mm parfocal

IS.8804 4x/0.10 IOS EPLi objective. WD 15.4 mm
IS.8810 10x/0.25 IOS EPLi objective. WD 5.8 mm
IS.8840 S40x/0.65 IOS EPLi objective. WD 0.43 mm
IS.8800 S100x/1.25 IOS EPLi oil objective. WD 0.13 mm

Plan infinity corrected PLi, 45 mm parfocal

IS.7202 2x/0.05 IOS PLi objective, WD 18.3 mm. Best to be used together with swing-out condenser
IS.7204 4x/0.10 IOS PLi objective. WD 15.4 mm
IS.7210 10x/0.25 IOS PLi objective. WD 10 mm
IS.7220 20x/0.40 IOS PLi objective. WD 5.1 mm
IS.7240 S40x/0.65 IOS PLi objective. WD 0.54 mm
IS.7260 S60x/0.85 IOS PLi objective. WD 0.14 mm
IS.7200 S100x/1.25 IOS PLi oil objective. WD 0.13 mm

Plan Phase infinity corrected PLPHi, 45 mm parfocal

IS.8910 10x/0.25 IOS PLPHi objective. WD 10.2 mm
IS.8920 20x/0.40 IOS PLPHi objective. WD 5.1 mm
IS.8940 S40x/0.65 IOS PLPHi objective. WD 0.5 mm
IS.8900 S100x/1.25 IOS PLPHi oil objective. WD 0.13 mm

CONDENSERS

IS.9102 Standard Abbe condenser 1.25 NA with slot for darkfield and phase contrast sliders
IS.9105 Swing-out 0.9/1.25 N.A. condenser
IS.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 oil objective
IS.9194 Slider with phase contrast annuli for S40x phase contrast objective

FILTERS

IS.9600 Polarization filter 45 mm for lamphouse
IS.9601 Polarization set: simple rotating polarizer for lamphouse and fixed polarizer, mounted under head (not suitable for SLC models)
IS.9626 Polarization filter for mounting under the head (not suitable for SLC models)
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 Stage with ergonomical low-positioned X-Y adjustments of mechanical X-Y stage. Right handed. Add-on price, only with new microscopes
IS.4300 Aluminum transport case for iScope
IS.9880 Köhler attachment
AE.3684 Glass fuses 500 mA 250 V, 10 pieces
IS.9993 NeoLED™ replacement unit
IS.9994 Halogen-NeoLED™ replacement unit



IS.9501 Stage with ergonomical low-positioned X-Y adjustments

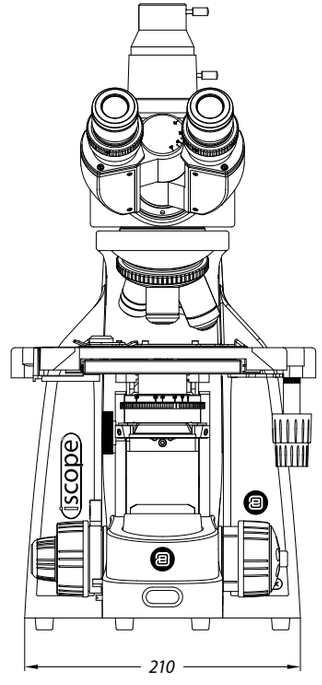
CAMERA ACCESSORIES

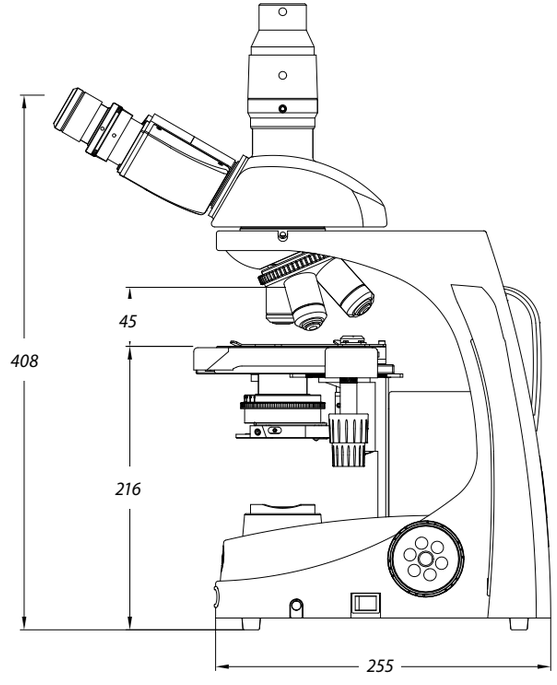
AE.5130 Universal SLR adapter with built-in 2x lens for standard 23.2 mm tube. Needs T2 adapter
AE.5025 T2 adapter for Nikon D SLR digital camera
AE.5040 T2 adapter for Canon EOS SLR digital camera

DISPOSABLES

PB.5155 Microscope slides 76 x 26 mm, ground edges, 50 pieces per pack
PB.5157-W Microscope slides 76 x 26 mm, ground edges and frosted side white color, 50 pieces per pack
PB.5157-B Microscope slides 76 x 26 mm, ground edges and frosted side blue color, 50 pieces per pack
PB.5165 Cover glasses 18 x 18 mm, 0.13-0.17 mm, 100 pieces
PB.5168 Cover glasses 22 x 22 mm, 0.13-0.17 mm, 100 pieces
PB.5245 Lens cleaning paper, 100 sheets per pack
PB.5255 Immersion oil, 25 ml. Refraction index n = 1.515
PB.5274 Iso propyl alcohol 99%, 200 ml
PB.5275 Cleaning kit: lens fluid, lint free lens tissues/ paper, brush, air blower, cotton swabs
PB.5276 Microscope maintenance and servicing kit, 16 pieces: cleaning brush, screwdriver set of 6, air blower, 3 Allen keys, 1.5, 2, 2.5 mm, lens cleaning fluid 20 ml, cleaning cloth 140 x 140 mm, 100 lens tissue sheets, tube of maintenance grease, 10 ml bottle of oil, packed in a nice toolbox

DIMENSIONS







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

education

stereo microscopes



product information

EDUBLUE • 52
STEREOBLUE • 58
NEXIUSZOOM • 64
AP SERIES • 72

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



- *Pillar stand model ED.1402-P*

product information



ED.1302-P / ED.1402-P
225 (h) x 175 (w) x 220 mm (d) | 2.4 kg
ED.1302-S / ED.1402-S
260 (h) x 175 (w) x 220 mm (d) | 2.1 kg
ED.1505-S / ED.1805-S
260 (h) x 175 (w) x 220 mm (d) | 2.3 kg

HIGHLIGHTS

- **Designed for education**
- **Universal USB-C 5V Power**
- **Dual illumination system: white & halogen colored LED**
- **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**
- **Digital WiFi models with 4.0 MP camera available**
- **Supplied with rechargeable AA batteries for cordless use**
- **Ergonomic carrying grip**
- **5 Years warranty**



- *USB-C power input and dual color LED switch*

SPECIFICATIONS

EYEPIECES

Pair of secured WF 10x/20 mm eyepieces supplied with eyecups

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

HEAD

- Binocular head with 45° inclined tube. Diopter adjustment of ± 5 on one side
- Trinocular head with 45° inclined tubes and 23.2mm tube. The standard trinocular tube accepts all standard 23.2 mm C-mount objectives
- Interpupillary distance adjustable between 55 and 75 mm
- Digital head is supplied with a 4.0 MP USB-2.0 1/1.8" CMOS camera
- A maximum of resolution of 2688 x 1512 pixels

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

- 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
- 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

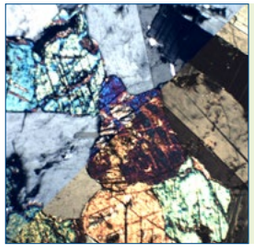


graduations and focus point indicator for quick focusing

DUAL ILLUMINATION SYSTEM

- 1 W white LED: 6000 – 6500 K, ideal for standard observations with crisp, cool lighting
- 1 W halogen colored LED: 3000 – 3200 K, enhances contrast for specific applications such as transparent objects

All EduBlue microscopes are supplied with rechargeable AA batteries for cordless operation and with external 5V DC power adapter



LED colored and halogen colored light

DIGITAL MODELS

Digital models are equipped with a 4 MP USB-2.0 1/1.8 inch sensor CMOS camera. Maximum resolution is 2688 x 1512 pixels, smaller resolutions are selectable. Delivered with ImageFocus Alpha 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 8: Digital solutions



● *ED.1303-S Trinocular model*

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



the build-in movable object stage of the EVO



● *ED.1402-EVO*

See chapter 8

MODELS	Bino	Trino	Digital head + WiFi	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.1402-P	•				•			•		
ED.1402-S	•				•				•	
ED.1403-S		•			•				•	
ED.1405-SW			•		•				•	
ED.1502-S	•					•			•	
ED.1802-S	•						•		•	
ED.1805-SW			•				•		•	
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 eyepieces
ED.6015 Pair of HWF 15x/12 mm eyepieces
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
ED.9956 Stage plate black/white, Ø 60 mm
ED.4300 Aluminum transport case for EduBlue microscopes. Not suitable for the ED.3000
AE.1112 Micrometer 76 x 26 mm slide, 50 mm/50 divisions
SL.5504 LED replacement unit, incident illumination
SL.5505 LED replacement unit, transmitted illumination

euromex.academy

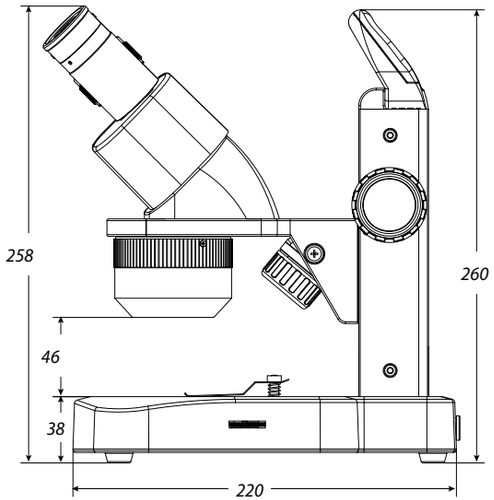
DISPOSABLES

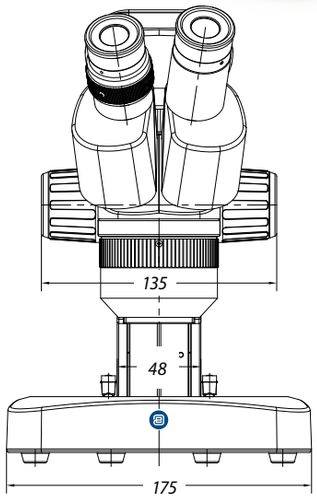
PB.5245 Lens cleaning paper, 100 sheets per pack
PB.5274 Isopropyl alcohol 99% (200 ml)
PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs
PB.5276 Microscope maintenance and servicing kit, 16 pieces: cleaning brush, screwdriver set of 6, air blower, 3 Allen keys, 1.5, 2, 2.5 mm, lens cleaning fluid 20 ml, cleaning cloth 140 x 140 mm, 100 lens tissue sheets, tube of maintenance grease, 10 ml bottle of oil, packed in a nice toolbox



● *ED.1405-SW*

DIMENSIONS





about APL

Antimicrobial 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 prevents the growth of unwanted microbes that can cause degradation, discoloration, staining or odors of the Euromex microscopes

Independent laboratory testing demonstrated a reduction of 99.99% in microbes after 24 hours

HOW DOES IT WORK?

1. The technology binds to the cell wall, disrupting growth
2. The technology interferes with the enzyme production stopping the cell producing energy
3. APL interrupts the cells DNA, preventing replication

WHY SILVER?

Silver is an element found naturally in the environment. Since ancient times silver has been highly regarded as a versatile antimicrobial tool which has health and environmental concerns. The additives we use are non-leaching and non-sensitizing

WILL APL WEAR OFF?

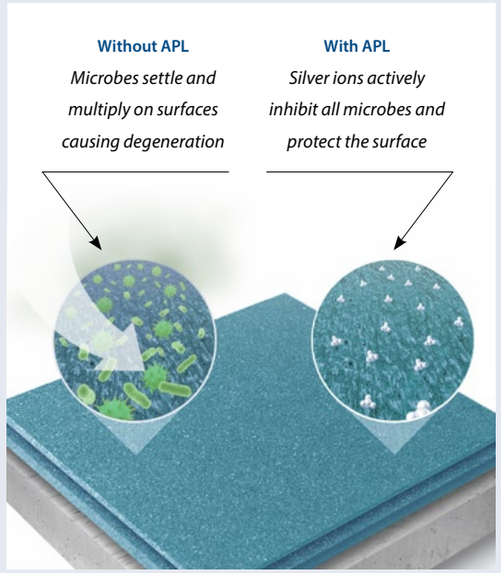
Once APL has been incorporated into a material it is essentially there to stay. Recent independent testing of a new paint range demonstrated no loss in antimicrobial performance even after 10 years of accelerated aging. Ionic silver based additives will not lose efficacy due to leaching or migration 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

The antimicrobial technology does not protect the user or others against disease causing organisms. The technology is not a substitute for good hygiene/and or cleaning practices



APL is in no way protecting the user, the protection is for the product

STEREO MICROSCOPES



StereoBlue

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



● *SB.1903*

product information

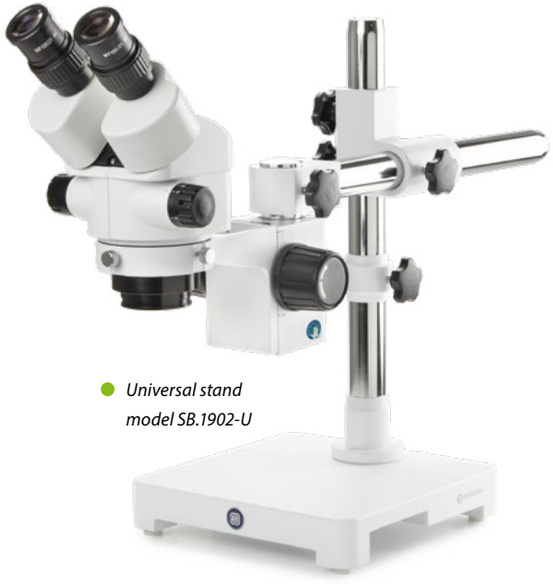
Bino | Trino | 360° | Transmitted

Incident | LED | Zoom | APL | Battery | 100-240V | Anti-theft | 5 YEARS Warranty

SB.1903
330 (h) x 220 (w) x 266 mm (d) | 4.4 kg
SB.1903-P
299 (h) x 220 (w) x 266 mm (d) | 5.1 kg
SB.1302/SB.1402
330 (h) x 220 (w) x 266 mm (d) | 4.0 kg
SB.1302-P/SB.1402-P
299 (h) x 220 (w) x 266 mm (d) | 4.7 kg

HIGHLIGHTS

- **Designed for professional use**
- **Robust and sturdy**
- **WF 10x/21 mm eyepieces**
- **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**



● *Universal stand model SB.1902-U*

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 splitter (50:50)

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

DUAL MAGNIFICATION OBJECTIVES

- Nosepiece with dual 1x/3x or 2x/4x revolving objectives
- Magnifications 10x/30x or 20x/40x
- Field of view 21 mm/6.9 mm or 10.5 mm/5.2 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 ringlight 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 ringlight 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 8 (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



● *SB.1302*



● *SB.1402-P*



● *SB.3903-P*

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

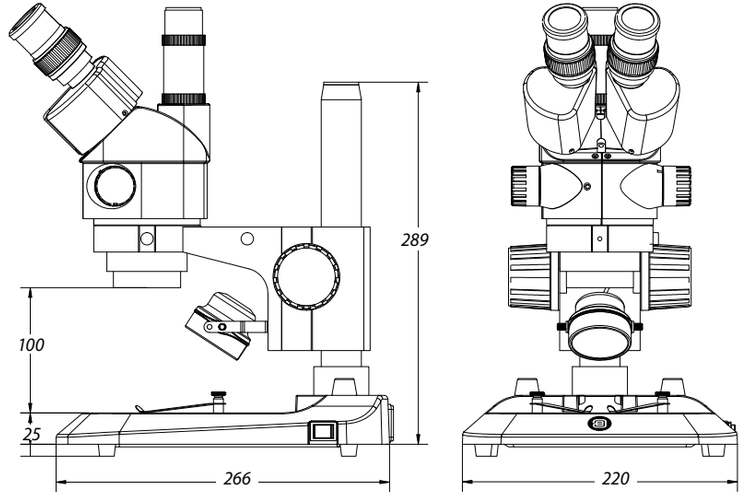
EYEPIECES - 15X/15 MM

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 WF 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 WF 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 WF 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

WF = wide field

AUXILIARY LENSES

SB.8903 Auxiliary 0.3x lens for zoom models, WD 247 mm. Only suitable for boom and articulated stands
SB.8905 Auxiliary 0.5x lens for zoom models, WD 169 mm. Not suitable for SB.1X02, SB.1X03, SB.3903 and SB.3903-P
SB.8907 Auxiliary 0.75x lens for zoom models, WD 105 mm
SB.8915 Auxiliary 1.5x lens for zoom models, WD 48 mm. Not suitable for SB.39xx

WD = working distance

MISCELLANEOUS

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.9045 Fall protection ring for StereoBlue pillars. Note: the one- and double arm stands are as a standard supplied with this ring
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° rotatable analyzer in mount to be screwed under the head of StereoBlue
SB.9570 Pair of object clamps for stage
SB.9952 Stage plate transparent, Ø 60 mm
SB.9956 Stage plate black/white, Ø 60 mm
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

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

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 tissues, brush, air blower, cotton swabs

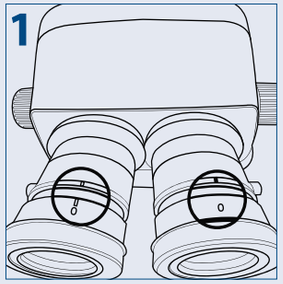
euromex.academy



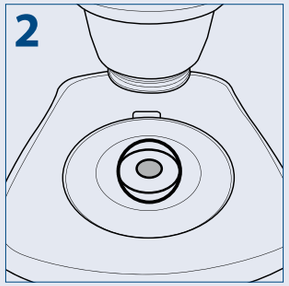
SB.1903-B

how to set up a **stereo microscope**

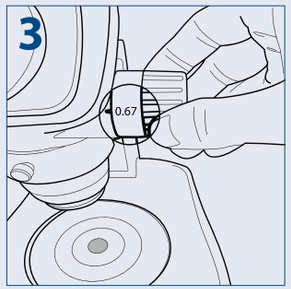
Setting up your stereo microscope properly is essential to getting parfocal images during the entire zoom range. It also prevents head aches, stressful eyes and fatigue. Below you will find a setup guide that will help get the best out of your microscope



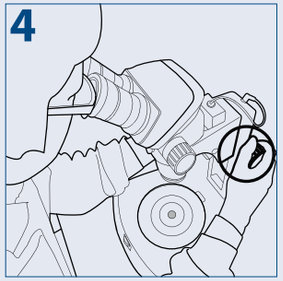
Turn the diopter adjustment rings of both eyepieces to position 0"



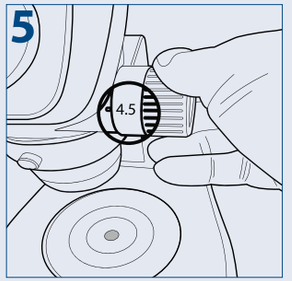
Put a specimen on the stage plate



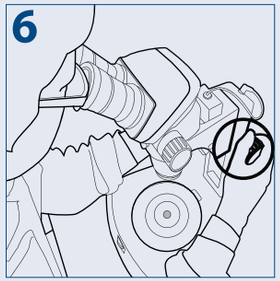
Turn the zoom adjustment knob to the lowest magnification



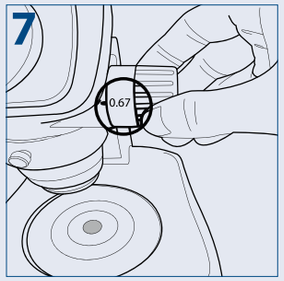
Rotate the focus adjustment knob to bring the specimen into focus



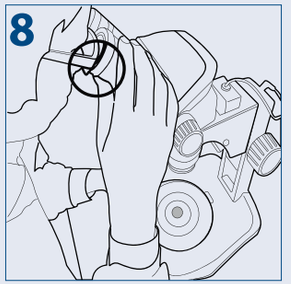
Turn the zoom adjustment knob to the highest magnification



Rotate the focus adjustment knob to bring the specimen into focus



Turn the zoom adjustment knob to the lowest magnification



Rotate the diopter adjustment rings of the left and right eyepiece 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



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

product information



● *NZ.1903-S*

Bino · Trino · 360° · Transmitted · Incident

LED · ESD · Zoom · APL · 100-240V · Anti-theft · 10 YEARS Warranty

NZ.1903-S / NZ.1703-S
339 (h) x 256 (w) x 311 mm (d) | 5.1 kg
NZ.1903-P / NZ.1703-P
299 (h) x 256 (w) x 311 mm (d) | 5.2 kg
For weight of other products see table

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**



● *NZ.1903-PG*

● *NZ.1903-M*

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

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

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



● *NZ.1902-P*

● *NZ.1902-S*

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

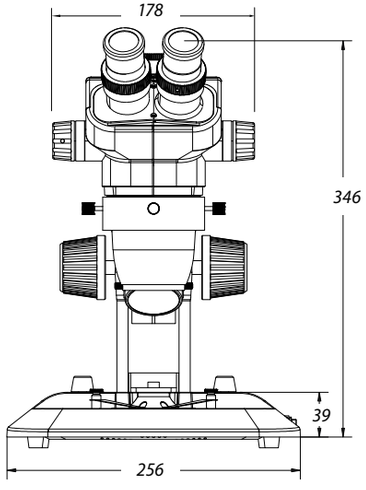
- Ergonomic pillar or rack & pinion stand with 3 W incident and 3 W transmitted LED illuminations (-P and -S stands)
- Ergonomic pillar stand with two 3 W gooseneck type incident LED illuminations on each side and a 3 W transmitted LED illumination (-PG stand)
- Ergonomic pillar stand with rotating mirror 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)

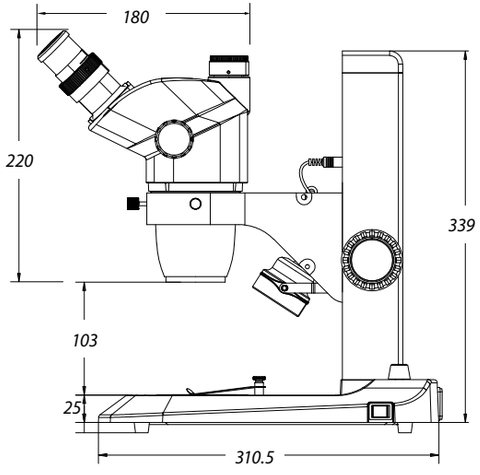
All pillar and rack & pinion stands are supplied with two object clamps. Alloy metal cast, hardened coating

STAGE

180 x 155mm mechanical X-Y 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 the P-, PG- and S-models)

PACKAGE CONTENT

Supplied with power cord, a pair of eyecups, 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



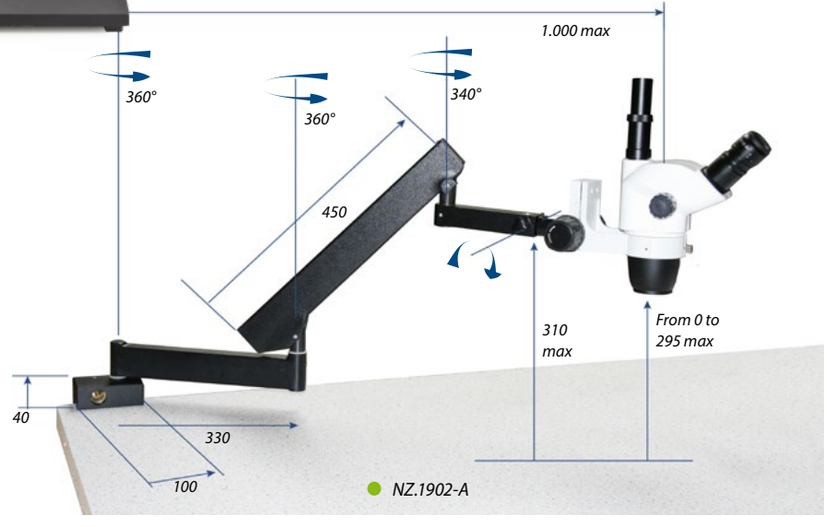
NZ.1902-U



NZ.1903-B



NZ.1903-AP



NZ.1902-A

ACCESSORIES AND SPARE PARTS

HEADS & EYEPIECES

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

** without head holder*

NZ.6010 Pair of HWF 10x/22 mm eyepieces
NZ.6010-C HWF 10x/22 mm eyepiece only with crosshairs
NZ.6010-CM HWF 10x/22 mm eyepiece only with 10/100 micrometer and crosshairs
NZ.6015 Pair of HWF 15x/16 mm eyepieces 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

HWF = high wide field

AUXILIARY LENSES

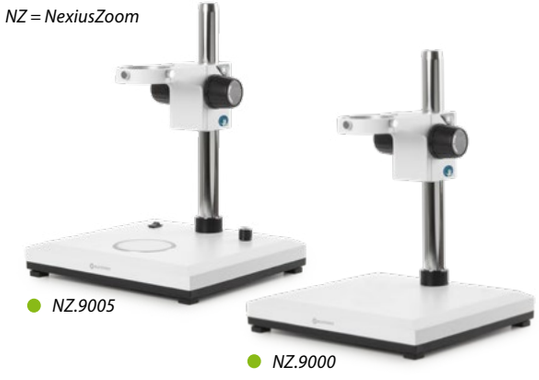
NZ.8903 Additional 0.3x lens for NZ. WD 287 mm. Only suitable for A, AP, U, B and BC stands
NZ.8904 Additional 0.4x lens for NZ. WD 220 mm. Only suitable for A, AP, U, B and BC stands
NZ.8905 Additional 0.5x lens for NZ. WD 183 mm. Not suitable for S stands
NZ.8907 Additional 0.75x lens for NZ. WD 105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

WD = working distance

STANDS

NZ.9000 Ergo pillar stand without illumination
NZ.9005 Ergo pillar stand with adjustable transmitted 3 W LED illumination
NZ.9010 Ergo rack & pinion stand with incident and transmitted 3 W LED illuminators
NZ.9015 Ergo pillar stand with incident and transmitted 3 W LED illuminators
NZ.9018 Ergonomic pillar stand with two 3 W gooseneck type incident LED illuminations on each side and a 3 W transmitted LED illumination
NZ.9020 Universal one-arm stand without NZ head holder
NZ.9025 Black universal stand with table clamp without NZ head holder
NZ.9027 Black universal stand with heavy baseplate without NZ head holder
NZ.9030 Universal double-arm boom stand without NZ head holder
NZ.9032 Universal two-arm stand with table clamp without NZ head holder
NZ.9042 Stand with rotating mirror and indirect transmitted LED illumination
NZ.9047 Lightweight articulated arm stand, with head holder, without illumination

NZ = NexiusZoom



NZ.9005

NZ.9000



NZ.8903 NZ.8904 NZ.8905 NZ.8907 NZ.8915 NZ.8920

HEAD HOLDERS

NZ.9081 Head 76 mm holder for NexiusZoom head on articulated arm stand NZ.9025 and NZ.9027

NZ.9090 NexiusZoom head holder, suitable for NZ.9000/9005/9015/9017/9020/9030 stands

NZ.9095 NZ head holder, ADD-ON, with fine and coarse adjustment. For NZ.9000/9005/9015/9018/9020/9030/9032 and NZ.9042 stands. Only available with new microscopes



NZ.9095

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 ringlight 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 piece

LE.5261 Interchangeable high power 365 nm flexible arm for NZ.9018/LE.5207/LE.5212, 1 piece

LE.5262 Interchangeable high power 395 nm flexible arm for NZ.9018/LE.5207/LE.5212, 1 piece

LE.5263 Interchangeable high power 420 nm flexible are for NZ.9018/LE.5207/LE.5212, 1 piece

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

LE.1973 Ring illuminator with 144 LEDs with adjustable light intensity. External power supply 100-240 Vac / 12 Vdc (50/60 Hz). With segment controller. Brightness of 23,000 Lux at 100 mm distance and color temperature of 6,500 K. Mounting for stereo head with diameter from 25 to 61 mm

LE.5210 Euromex cold light illuminator EK-1, 100 W 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 self-sustaining, 50 cm long, Ø 4 mm core

LE.5215 Triple arm light conductor, gooseneck self-sustaining, 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

More illumination options, see chapter 9

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



NZ.9505

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.8950 Protection glass window for NZ

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

NZ.9040 Darkfield attachment for NZ

NZ.9045 Fall protection ring for NexiusZoom pillars. Note: the one- and double arm stands are as a standard supplied with this ring

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

NZ.4300 Aluminium case for NexiusZoom microscopes with -P/-S/-PG stands

DISPOSABLES

PB.5245 Lens cleaning paper, 100 sheets per pack

PB.5274 Iso propyl alcohol 99%, 200 ml

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

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

NZ = NexiusZoom



The LE.5212 in two different configurations



STEREO MICROSCOPES

AP series



AP series

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-7 LED (50.926)*

product information

Bino | Transmitted | Incident | LED | Halogen | APL | Battery | 100-240V | 100-240V | 5 YEARS Warranty

AP-1
250 (h) x120 (w) x 170 mm (d) | 1.4 kg
AP-2
220 (h) x 120 (w) x 170 mm (d) | 2.0 kg
AP-7 LED / AP-8 / AP-8 LED
286 (h) x120 (w) x 190 mm (d) | 2.4 kg

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**



● *AP-1 (50.890)*

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 and AP-2 come with a 2x magnification objective in slider
- The 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 is supplied with an incident 10 W 12 V tungsten illumination and internal power supply
- The 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 8 (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-2 (50.900)*



● *AP-8-LED (50.931)*

MODELS		Vertical head	45° head	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)	•		•				•		
50.926	(AP-7 LED)		•		•				•	•
50.930	(AP-8)		•			•	•	•		
50.931	(AP-8 LED)		•			•			•	•

ACCESSORIES AND SPARE PARTS

EYEPIECES

ED.6005	Pair of wide field eyepieces WF 5x/22 mm
ED.6010	Pair of wide field eyepieces WF 10x/20 mm
ED.6110	Micrometer eyepiece WF 10x/20 mm, 10 mm/100
ED.6015	Pair of wide field eyepieces WF 15x/16 mm
ED.6020	Pair of wide field eyepieces WF 20x/10 mm
ED.6099	Pair of eyecups

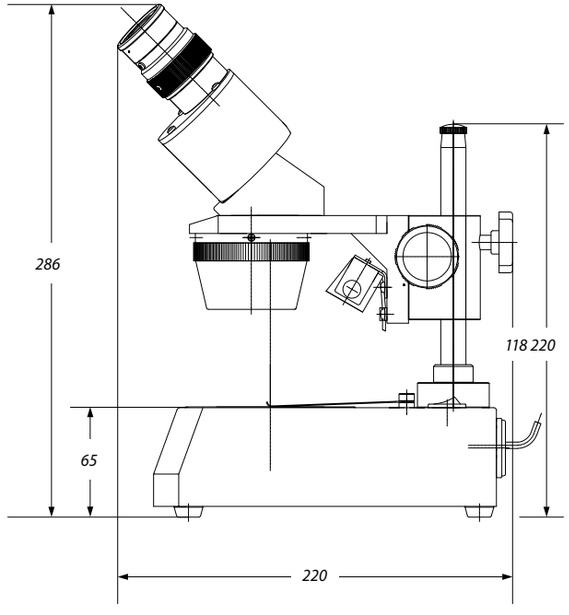
MISCELLANEOUS

50.871	Black/white stage plate Ø 94 mm for AP-7 LED, AP-8 and AP-8 LED models
50.873	Glass stage plate Ø 94 mm for AP-7 LED, AP-8 and AP-8 LED models
ED.9956	Black/white stage plate Ø 60 mm (AP-1 and 2)
50.882	Spare halogen bulb 12 V (transmitted illumination)
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*



iscope

FEATURED

iScope

Discover the new digital heads for the iScope, Achios-X Observer, - Inverso and Delphi-X Observer, page 322

digital solutions

Get ready to discover the digital world of microscopy with the newest Euromex digital educational, laboratory and materials science 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 products incorporate all the latest available technology in this field, such as WiFi, HDMI, CMOS, HD-CMOS and sCMOS sensors, especially designed for fluorescent microscopy. Our digital solutions package includes the powerful ImageFocus software for image analysis

digital solutions

education • life science • industry







product information

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WiFi CAMERAS • 344
COOLED CAMERA • 345
HD CAMERA • 346
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SOFTWARE • 352
ADAPTERS • 358



MicroBlue

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

The modern MicroBlue is an entry-level microscope, especially appreciated 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 X-Y stage. All models are equipped with 35 mm achromatic objectives

product information





MB.1055

MB.1055
320 (h) x 151 (w) x 202 mm (d) | 2.4 kg
MB.1051-LCD
378 (h) x 179 (w) x 202 mm (d) | 2.48 kg

HIGHLIGHTS

- **New back panel with smart storage solutions**
- **Dual Illumination System: white & halogen colored LED**
- **Universal USB-C 5V Power**
- **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)**



Back panel of the MicroBlue

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 1 mm/100 calibration slide
- Warranty for the camera is two years

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 higher, both 32 and 64 bits configurations. A MacOs 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 fps*
- Save images and videos directly to micro SD card
- Image resolution up to 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

** Frame rates were determined at optimal conditions*

MODELS	Digital LCD	Digital mono	Maximum objectives	4/10/S40x objectives	S60x objective	S100x oil 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

BlueLine DUTCH QUALITY



EcoBlue

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 mechanical X-Y stage, Abbe condenser and a 1 W LED illumination with integrated 100-240 V power supply



● *EC.1005*

product information

Mono | 360º | Transmitted | Dual LED | NeoLED | Abbe

Zoom | APL | Digital | USB | 100-240V | Anti-theft | 2 YEARS Warranty | 5 YEARS Warranty

EC.1105 / EC.1005
355 (h) x 270 (w) x 220 mm (d) | 2.6 kg

HIGHLIGHTS

- **Economic microscopes for education**
- **Monocular and binocular models**
- **Built-in digital 5.0 MP USB-2.0 camera**
- **Color coded condenser**
- **Dual illumination system: white & halogen colored (Neo)LED**
- **All models have rechargeable AA batteries and external 100-240 Vac mains/charger adapter**
- **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 fps*. USB-2.0 cable and a 1 mm/100 calibration slide

SOFTWARE

The capture and analysis ImageFocus Plus software allows you 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 higher, both 32 and 64 bits configurations. A MacOS version is also available. Free software can be downloaded from our website

● *EcoBlue supplied with achromatic objectives*

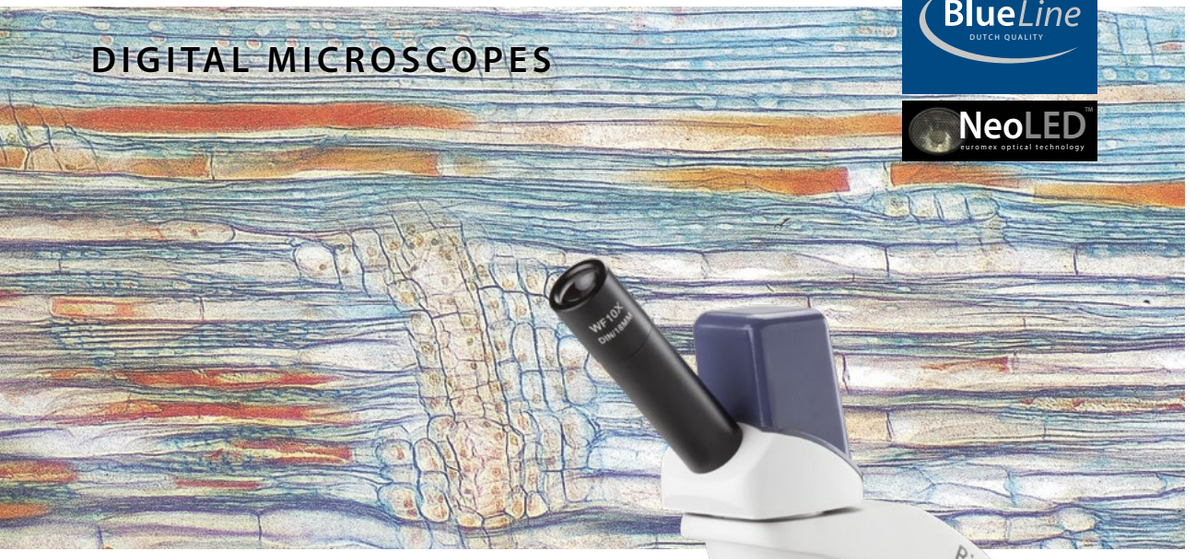
For full microscope specifications and accessories see chapter 1: Biological microscopes

** Frame rates were determined at optimal conditions*

MODELS	Monocular	Binocular	4x, 10x, S40x objectives	S60x objective	S100x oil objective	Mechanical X-Y stage	1 W Dual color LED	1 W Dual color NeoLED™
EC.1005	•		•				•	
EC.1105	•		•		•		•	
EC.1607		•	•	•				•
EC.1055	•		•			•	•	
EC.1155	•		•		•	•	•	
EC.1157		•	•		•	•		•
EC.1657		•	•	•		•		•

BlueLine DUTCH QUALITY

NeoLED™ euromex optical technology





● *BB.4225*

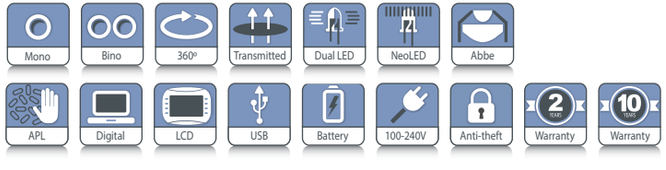
BioBlue

digital microscopes

Digital microscopes are available with the traditional eyepieces included, with or without a windows tablet and a fully digital version that is supplied with an LCD screen only

The digital models of the BioBlue set a new standard in digital microscopy, with high quality imaging, both optically and digitally. The general microscope specifications, like the mechanical X-Y stage and objectives are identical to the non-digital microscopes, found in chapter 1

product information



BB.4225 / BB.4245 /BB.4255
340 (h) x 155 (w) x 230 mm (d) | 3.4 kg
BB.4267 / BB.4269
360 (h) x 155 (w) x 230 mm (d) | 4.1 kg

HIGHLIGHTS

- **New back panel with smart storage solutions**
- **Dual Illumination System: white & halogen colored LED**
- **Universal USB-C 5V Power**
- **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 X-Y stage**
- **LED and NeoLED™ illumination**
- **Cordless operation**
- **10 Years warranty (2 years on camera)**



● *BB.4220-LCD*

SPECIFICATIONS

MODELS WITH 5 MP 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 1 mm/100 calibration 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 higher, both 32 and 64 bits configurations. A MacOS 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 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

** Frame rates were determined at optimal conditions*

MODELS	Mono	Bino	LCD	Tablet	4/10/40x SMP objectives	Semi plan S60x objective	Semi plan S100x oil objective	Integrated X-Y stage	1 W Dual color LED	1 W Dual color NeoLED™
BB.4205	•				•				•	
BB.4225	•				•			•	•	
BB.4245	•				•	•		•	•	
BB.4255	•				•		•	•	•	
BB.4267		•			•		•	•		•
BB.4269		•			•			•		•
BB.4200-LCD			•		•				•	
BB.4220-LCD			•		•			•	•	
BB.4267-T		•		•	•		•	•		•
BB.4269-T		•		•	•	•		•		•

MODELS WITH TABLET AND 5 MP CAMERA

The 5.1 MP CMOS camera ensures excellent color reproduction and is connected to a Windows tablet PC with vivid color graphic display for enabling visualisation of microscopic samples and enjoying the great features of our ImageFocus image analysis software. The tablet represents a 2-in-1 solution as it can be disconnected and used as a real windows tablet. Being Windows-based and due to its large touch screen of 12.1" users are sure to have responsive and smooth control



SPECIFICATIONS

Software and camera as above (5 MP + ImageFocus Plus)

Processor	Quad Core max 3.3 GHz HD graphics processor
Screen	12.1 inch IPS 2160*1440 / 3:2
Memory	12 GB
Storage	512 GB Flash HDD, micro SD/SDHC sloth for cards up to 64 GB
Webcam	2 MP front and 5MP rear camera
Connectivity	Micro USB 2.0, Micro HDMI, USB-C, WiFi 6 and Bluetooth 4.0
Audio	Stereo with 3.5 mm audio jack, internal microphone and speaker
Battery	Lithium, 38Wh, 5000mA
Weight	0.8 KG (tablet) 4.8 kg (complete)
System	Windows 11
Software	ImageFocus Plus

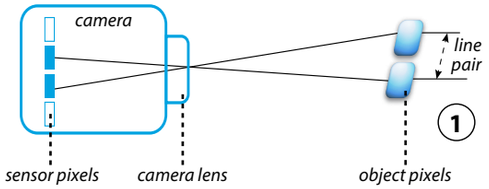


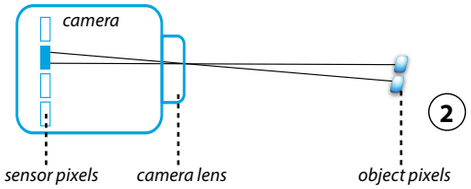
about

camera resolution and limits

Resolution of a camera system is the ability to reproduce object detail on screen. In practice it is depending on factors such as the good lighting of the object, the sensor pixel size and the capabilities of the optics. The smaller the object detail, the higher the required resolution

The highest frequency – expressed as line pair per mm that can be resolved – is 2 pixels or one line pair, the so-called **Nyquist frequency**





(1) *Space between objects is large enough to be detected by minimum two pixels of the camera sensor*

(2) *Space between objects is too small to be detected by minimum two pixels of the camera sensor*

THE LIMITING SENSOR RESOLUTION

(image space resolution) of a camera is commonly calculated as:

$$\left(\frac{1\ \text{lp}}{2\ \text{x}\ \text{s}}\right)\ \text{x}\ \left(\frac{1000\mu\text{m}}{1\ \text{mm}}\right)$$

whereby **s** = pixel size (in µm)
and expressed as line pair per mm (Lp/mm)

The formula shows that a sensor with smaller pixels will have higher image space resolution:

Pixel size	Image Space resolution
1.67	229 LP/mm
2.2	227 LP/mm
3.45	145 LP/mm
5.5	90 LP/mm

Considering the Euromex DC.18000-Pro 2/3 inch camera which is equipped with 4921 x 3684 pixels camera on a 8.6 x 6.6 mm large sensor

THE NYQUIST IMAGE SPACE RESOLUTION

can also be calculated as 1/2 x sampling pixels/mm (Lp/mm) or:

- **Horizontal**
  4921 / 8.6 = 572 (sampling pixels) x 0.5 = 286 Lp/mm
- **Vertical**
  3684 / 6.6 = 558 (sampling pixels) x 0.5 = 279 Lp/mm

The Nyquist object space resolution or the smallest detail that could be theoreticaly resolved is then equal to:
1000 mm / (286 Lp/mm) or 3.5 µm
However, taken into account the manufacturing limitations and inevitable optical aberrations, the real image space resolution can be calculated as:
1/2 x Kell factor (approx 0.70) x sampling pixels (Lp/mm) or:

- **Horizontal**
  4921 / 8.6 = 572 (sampling pixels) x 0.35 = 200 Lp/mm
- **Vertical**
  3684 / 6.6 = 558 (sampling pixels) x 0.35 = 195 Lp/mm

or approx. 1000 mm / 200 Lp/mm or 5 µm
In comparison, the by physics diffraction limited object space resolution (smallesy detail that ever can be observerd through the eyepieces of a optical compound microscope, is around 0.20 µm



BlueScope

NeoLED™ euromex optical technology

BlueScope

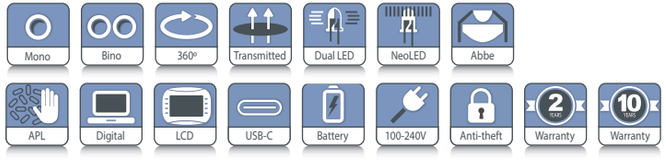
digital microscopes

The digital models of the blueScope are among the advanced in digital microscopy, with high quality imaging, both optically and digitally. Versions with traditional eyepieces and a digital camera, fully digital versions or a combination with a windows tablet are available

The general microscope specifications, like the mechanical stage and objectives are identical to the non-digital microscopes found in chapter 1 or 2



● *BL.1057-T*



BB.4225 / BB.4245 /BB.4255
340 (h) x 155 (w) x 230 mm (d) | 3.4 kg
BB.4267 / BB.4269
360 (h) x 155 (w) x 230 mm (d) | 4.1 kg

HIGHLIGHTS

- **Monocular and binocular models**
- **Full digital models with a 7" LCD screen**
- **Models with a windows tablet**
- **Dual Illumination System: white & halogen colored LED**
- **Universal USB-C 5V Power**
- **Built-in digital 5.0 MP USB-2.0 camera**
- **10 Years warranty (2 years on camera)**



● *BL.1050-LCD*

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 higher, both 32 and 64 bits configurations. A MacOS version is also available. Free software can be downloaded from our website

MODELS WITH TABLET AND 5 MP CAMERA

The 5.0 MP CMOS camera ensures excellent color reproduction and is connected to a Windows tablet PC with vivid color graphic display for enabling visualization of microscopic samples and enjoying the great features of our ImageFocus image analysis software. The tablet represents a 2-in-1 solution as it can be disconnected and used as a real windows tablet. Being Windows-based and due to its large touch screen of 10.1" users are sure to have responsive and smooth control

SPECIFICATIONS

Software and camera as above (5 MP + ImageFocus Alpha)

MODELS WITH LCD SCREEN

The BlueScope 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
** Frame rates were determined at optimal conditions*
For full microscope specifications and accessories see chapter 1 or 3



EduBlue

digital microscopes with built-in 4.0 MP USB-2.0 camera

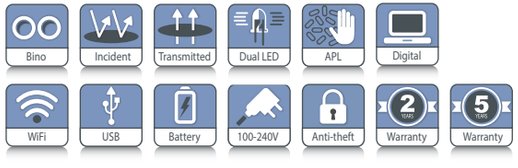
The EduBlue stereo microscopes are designed specifically for educational purposes and are equipped with WF 10x/20 mm eyepieces, a revolving nosepiece with double or triple magnification objectives



● *ED.1805-SW*

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

product information



ED.1X05-S / ED.1X05-SW
260 (h) x 175 (w) x 220 mm (d) | 2.4 kg



1x
2x
4x

● *Triple magnification*

HIGHLIGHTS

- **Economical binocular models**
- **Universal USB-C 5V Power**
- **Dual illumination system (see EduBlue chapter 2)**
- **Dual and triple magnification objectives**
- **Cordless operation**
- **Built-in digital 4.0 MP USB-2.0 camera**
- **Models with and without WiFi**
- **LED illuminators**
- **Ergonomic carrying grip**
- **5 Years warranty (2 years on camera)**

SPECIFICATIONS

USB CAMERA

These EduBlue digital microscopes are provided with a 4.0 MP 1/1.8" CMOS USB-2.0 camera, a maximum of resolution of 2688 x 1512, 24 bits color depth, up to 30 frames per second*. Supplied with USB-2.0 cable and a 1 mm/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 higher, both 32 and 64 bits configurations. A MacOS version is also available. Free software can be downloaded from our website

WIFI + USB CAMERA

These EduBlue digital microscopes are provided with a 4.0 MP 1/1.8" CMOS USB-2.0 camera, a maximum resolution of 2688 x 1512, 24 bits color depth, up to 30 frames per second. Connects to ethernet, computer or mobile device. Supplied with USB-2.0 cable and a 1 mm/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 higher, both 32 and 64 bits configurations. A MacOS version is also available. Free software can be downloaded from our website

** Frame rates were determined at optimal conditions*

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

MODELS	Binocular	2x/ 4x objectives	1x/ 2x/ 4x objectives	USB + WiFi +LAN camera	Software	Connectivity	Rack & pinion stand
ED.1405-SW	•	•		•	IF Alpha	2.0	•
ED.1805-SW	•		•	•	IF Alpha	2.0	•



EduBlue LCD

digital microscope with built-in 5.0 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 5 MP high-definition CMOS camera with 2592 x 1944 pixels

product information



● *ED.3000*

Zoom | Incident | Transmitted

LED | APL | Digital | LCD | 100-240V | 2 YEARS Warranty | 3 YEARS Warranty

ED.3000
425/475 (h) x 180 (w) x 230 mm (d) | 2.3 kg



● *Adjustable screen*

HIGHLIGHTS

- **MonoZoom stand-alone digital microscope**
- **Magnification 8x up to 54x optically and up to 540x digitally**
- **91 mm working distance**
- **Built-in 21 LED incident ringlight, five intensity positions**
- **Built-in 7 LED transmitted, two intensity positions**
- **Built-in 5 MP HD camera**
- **HD 9-inch screen**
- **Universal USB-C 5V Power**
- **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 0.7 to 4.5 zoom. This allows an on-screen magnification from 8 to 54x. Zoom adjustments engravings on 0.7x 0.8x 1x 1.5x 2x 3x 4x and 4.5x. The working distance is 91 mm. A digital zoom up to 10x is available within the software, allowing a digital magnification up to 540x

STAND

The central Zoom Objective with attached screen and LED ringlight 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 ringlight 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 5 MP CMOS high speed (60 fps) 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

bscope

NeoLED™ euromex optical technology



bScope

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

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

The 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

product information



● *BS.1157-EPLi*

Bino · Transmitted · Polarized · Köhler · Infinity

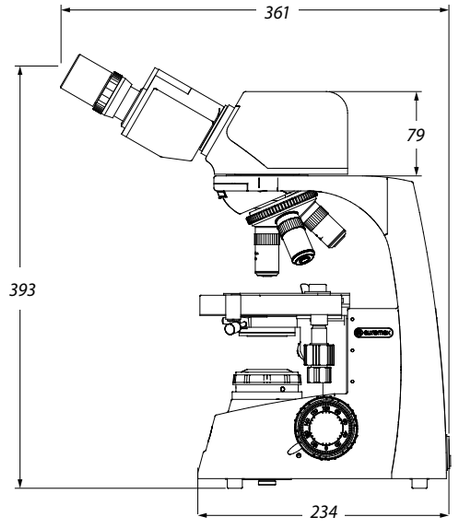
NeoLED · Abbe · APL · Digital · Battery · 100-240V · Anti-theft · 2 YEARS Warranty · 10 YEARS Warranty

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

HIGHLIGHTS

- **Binocular model**
- **Color coded condenser**
- **Diopter adjustment on both tubes**
- **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

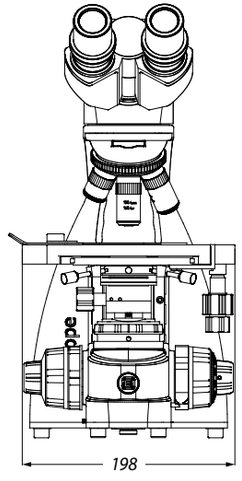
The digital bScope microscopes are equipped with a 5.0 MP 1/2.5 inch CMOS USB-2.0 camera, 24 bits color depth, 7 frames per second (2592 x 1944 pixels) or 27 frames per second (1280 x 960 pixels)*. Dynamic range is 76 dB and signal/noise ratio 41 dB. Supplied with USB-2.0 cable and a micrometer 1mm/100 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 higher, both 32 and 64 bits configurations. A MacOS version is also available. Free software can be downloaded from our website

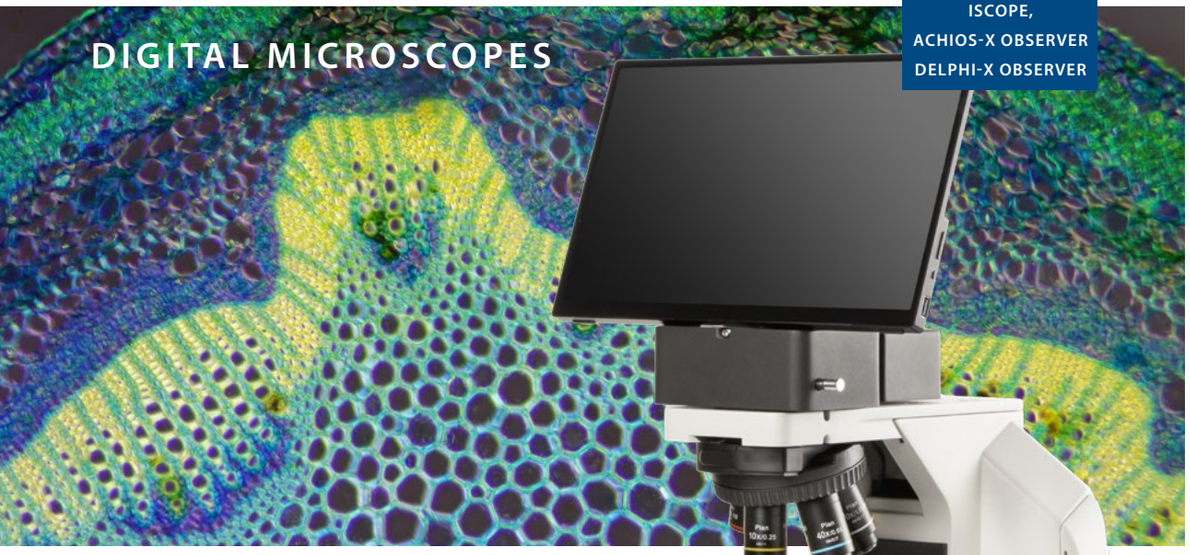
** Frame rates were determined at optimal conditions*

For full microscope specifications and accessories see chapter 1 or 3



MODELS	binocular head	HWF 10x/20 mm eyepieces	Quintuple nosepiece E-plan IOS 4/10/S40/S100x oil	Quintuple nosepiece plan IOS 4/10/S40/S100x oil	Köhler NeoLED™
BS.1157-EPLi	•	•	•		•
BS.1157-PLi	•	•		•	•

All models can optionally be supplied with three rechargeable AA batteries



Digital microscopes

iScope, Achios-X Observer, Achios-X Inverso and Delphi-X Observer

This digital solution for the iScope, Delphi-X Observer, Achios-X Observer and Achios-X Inverso microscopes uses an Ultra HD camera together with a high resolution 13" screen, to bring the most vivid images directly to you. This is extremely useful for demonstrations or for educational applications

This digital solution can work in two modes:

- A stand-alone mode, where the mouse driven built-in software enables the capturing of images and recording of videos as well as a full range of measuring functions and playback functions

No PC startup delay and no need for any computer knowledge

- The option either to be connected to a PC, or to stream images to different WiFi enabled devices, such as smartphones, tablets or computers



● *AX.1152-PLi + AX.DIGI-ADD*

HIGHLIGHTS

- **Extremely usefull for discussions, demonstrations and education**
- **Real time images directly on 13"HD screen**
- **3840 x 2160 pixels, 60 fps*, H264 codec**
- **Ultra HD 2160p, 8.3 MP, 1/8 inch color 4K Sony sensor**
- **Built-in mouse-driven software**
- **Interfaces: HDMI, USB-3, Ethernet, WiFi**
- **Stand alone mode or with computer**



● *IS.1152-Pli + IS.DIGI -ADD*



● *DX.1152-Pli + DX.DIGI-ADD*

** Frame rates were determined at optimal conditions*

COMPUTER CONTROLLED MODE

Besides working in the stand alone mode of the camera, you can also choose to connect the camera to a computer. Thus enjoying even more features of the Euromex ImageFocus Alpha software. Such as saving captured images in JPG, TIFF or BMP formats and recording videos in .avi format directly on the hard drive. The software offers different measurement features on live and captured images and also full control over the camera parameters

WIFI MODE

The system streams high resolution images simultaneously to several WiFi enabled smartphones, tablets or computers with iOS, Android or Windows operating systems. Ideal for demonstrations where remote viewing is needed

An Android app for this camera is available on www.euromex.com. IOS app can be downloaded from the App Store (free of charge)

MODELS

Ordering is based on the standard iScope, Achios-X Observer, Delphi-X Observer and Achios-X Inverso model rerferences, together with the corresponding DIGI-ADD reference

For example

IS.xxxx-xxx + IS.DIGI-ADD
AX.xxxx-xxx + AX.DIGI-ADD
DX.xxxx-xxx + DX.DIGI-ADD
AI.xxxx-xxx + AI.DIGI-ADD

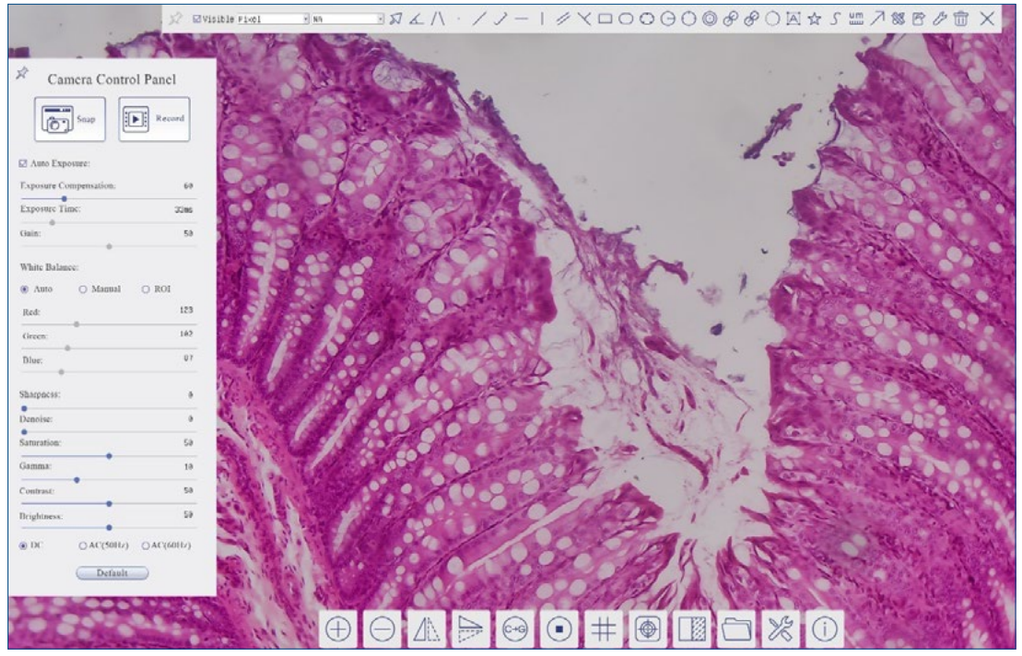
For further information on the microscope models, please refer to the specific microscope section in this catalog



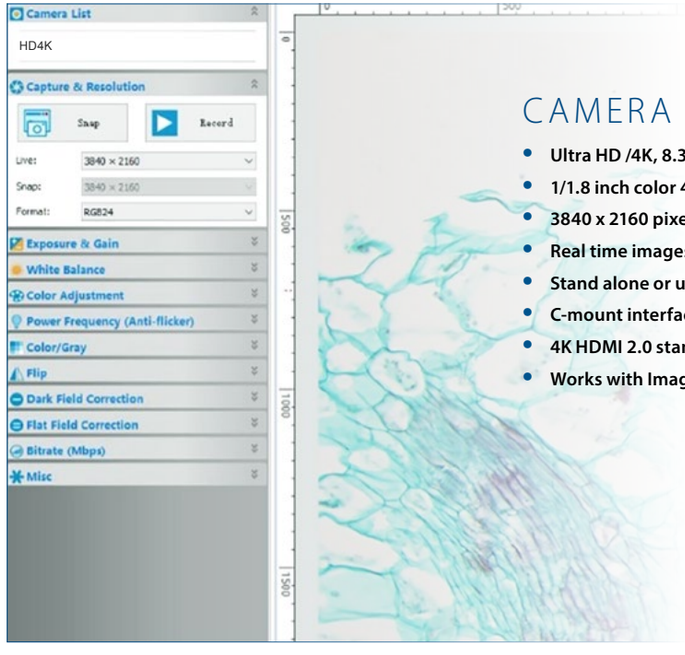
- *Control of the camera*



- *AI.4058-PLPHi + AI.DIGI-ADD*



- *Actual view of the screen. The menus pop-up automatically by mouse control*



CAMERA HIGHLIGHTS

- **Ultra HD /4K, 8.3 MP**
- **1/1.8 inch color 4K Sony sensor**
- **3840 x 2160 pixels, 60 fps**
- **Real time images directly on TV, monitor or beamer**
- **Stand alone or used via PC or Mac**
- **C-mount interface**
- **4K HDMI 2.0 standard**
- **Works with ImageFocus Alpha software**

MACROZOOMS



MZ.4500

macrozoom

The high-end MacroZoom is built around one 0.7 to 4.5 times optical zoom objective and must be used in combination with C-mount types of cameras with HD screens or computer screens. With a working distance of 105 mm it is highly suitable for repairs, tooling engineers and visual inspections

A standard heavy metal base makes the whole system very stable for adding all kinds of illumination systems and camera systems

- *MZ.4500*

product information

Warranty

MZ.4500
313 (h) 320 (w) 285 mm (d) | 3.06 kg



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**
- **2 Years warranty**

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 x 260 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



- *The MZ.4500 in combination with the VC.3036-HDS*



MZ.4600

digital macrozoom

This entry-level digital MacroZoom is equipped with a 0.7 to 5x zoom objective enables direct inspection of objects on external HD screen (not supplied). The mouse-driven built-in software control the camera parameters and enables measurements on screen, capturing and saving .jpg or .bmp format pictures and .mp4 format video on an USB memory stick

The MZ.4600 has a built-in high-definition 1080p 2 MP camera which can deliver up to 60 images per seconds and needs to be connected to an external stand-alone HD screen



● *MZ.4600*

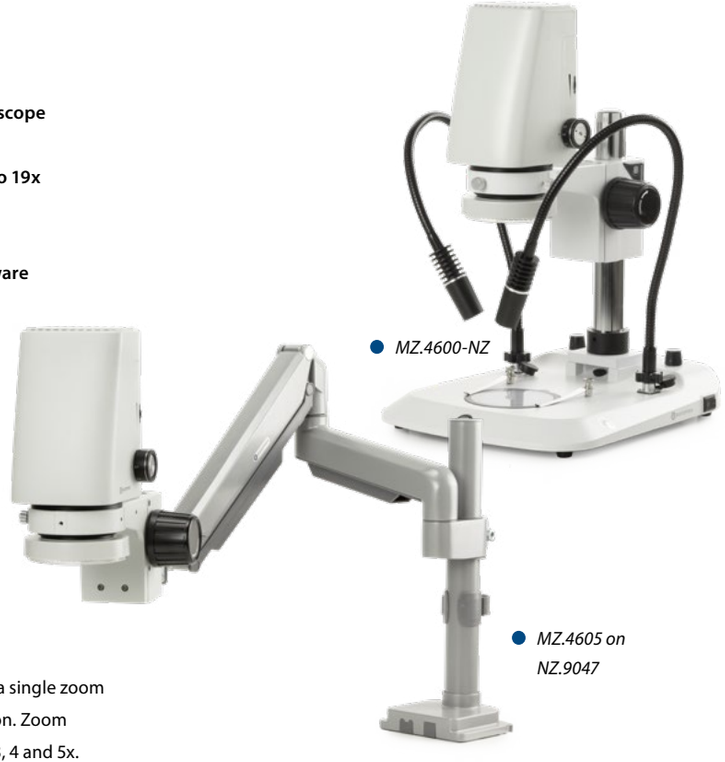
product information

Zoom | Digital | 100-240V | Warranty

MZ.4600
323 (h) 320 (w) 260 mm (d) | 4.4 kg

HIGHLIGHTS

- **MonoZoom stand-alone digital microscope**
- **Optical zoom from 0.7x up to 5x**
- **Magnification on screen from 2.5 up to 19x**
- **100 mm working distance**
- **Built-in 1080p 2 MP HD camera**
- **Built-in mouse driven on-screen software**
- **Measurement function on screen**
- **jpg or bmp saved images**
- **mp4 video recording up to max 2 hrs**
- **Removable 32 GB memory stick**
- **Metal stand**
- **2 Years warranty**



● *MZ.4600-NZ*

● *MZ.4605 on NZ.9047*

SPECIFICATIONS

MACROZOOM OBJECTIVE

The Digital MacroZoom MZ.46000 features a single zoom objective with a 0.7 to 5x zoom magnification. Zoom adjustment engravings on 0.7, 1, 1.5, 2, 2.5, 3, 4 and 5x. The working distance is 100 mm. An optional 3D attachment enables a 45° angle observation

STAND

- Standard pillar stand (Ø 32 mm) that sits on a large 320 x 260 mm metal stand without illumination
- Travel range is 50 mm, max. object height 22 cm
- The MacroZoom objective can also be mounted on the NexiusZoom stands. (for instance, the NZ.9047, see dedicated datasheet on the website)

ILLUMINATION

The MZ.4600 comes with a 144 LED ringlight, adjustable from the side of the MacroZoom body

BUILT- IN CAMERA

Built-in HD 1080p high-definition 2 MP 1/2.8" CMOS high speed camera, 1920 x 1080 pixels, 2.9 µm x 2.9 µm pixels and 60 images per seconds. Magnification on screen from 2.5x up to 19x with field of view from 210 x 120 mm up to 27 x 15 mm based on a 24 inch HD screen. The camera has one HDMI output that needs to be connected to an external HD screen (not supplied). Two USB ports accept the supplied 32 GB USB memory stick (up to 64 GB) and a supplied wireless mouse that drives the built-in on-screen software. The operator can take .jpg or .bmp images and .mp4 video's and save them to an external supplied memory stick

BUILT- IN SOFTWARE

The built-in on-screen software (only English language) is mouse driven and features functions such as capture or record images, automatic or manual white balance, color adjustments, file manager, grids, flip/mirror, freese image, WDR (white dark regulation), crosshair and crosslines, text annotations. Camera settings such as automatic or manual exposition time, gain, brightness, saturation, contrast, sharpness, digital 1-6x zoom are available. Measurement functions are also available from the software such as line, polygon circle, rectangle, angle, arc. Images are saved in .jpg or .bmp format and video in .mp4 videos format

PACKAGE CONTENT MZ.4600

Supplied with

- Digital MacroZoom body with ringlight illumination
- 32 GB memory stick, mouse, HDMI cable for HD screen, external 100-240 Vac / 12Vdc / 3A power supply
- Standard pillar stand with head holder, without illumination (MZ.4610)

ORDER PRODUCT REFERENCES:

MZ.4600 MacroZoom body with standard stand

MZ.4600-NZ MacroZoom body with NexiusZoom stand (NZ.9018), equipped with two 2 W gooseneck LED illuminations

MZ.4605 MacroZoom body with ringlight illumination

MZ.4610 Standard* stand for MZ body MZ.4605

MZ.4615 3D attachment for observation under 45° angle*

MZ.4625 Additional 0.5x lens working distance 165 mm

MZ.4627 Additional 0.7x lens working distance 128 mm

MZ.4622 Additional 2x lens working distance 40 mm



3-D attachment MZ.4615
Below: view from above and from a 45° angle





OPTIONAL LIGHT SOURCES:

LE.1973 Ringlight with 144 LEDs with adjustable light intensity. External power supply 100-240. Vac / 12 Vdc (50/60 Hz). With segment controller. Luminous flux of 23,000 Lux and color temperature of 6500 K

LE.1974 Ringlight with 72 LEDs with adjustable light intensity. External power supply 110-240 Vac / 12 Vdc (50/60 Hz). With segment controller. Luminous flux of 20,000 Lux and color temperature of 6500 K

LE.5207 Light source with 2x 3W LED light source mounted on two self-sustaining Gooseneck-type 56 cm long guide. Luminous flux 25.000 Lux, 6500K

LE.5212 Multiple light source station with

- two self-sustaining gooseneck-type 56 cm long guides with 2x 3 Watt white 6500 K power LEDs, each with a 3-lens focusing heads
- 60 LEDs ringlight, 6.500 K, 24.000 Lux
- transmitted 42 LEDs light stage, 6.500 K, 8.000 Lux. Stage diameter 94.5 mm, 15 mm thick



MZ.4600 with LE.1973

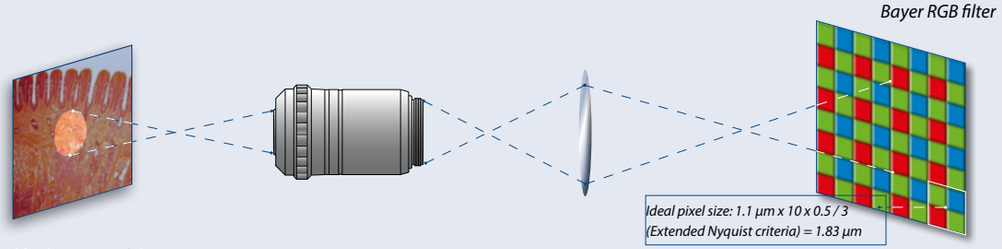
how to match
camera resolution

In microscopy, the image of the sample under observation is projected by the optical components of the microscope (objective lenses, eyepiece lenses, intermediate lens or camera relay lenses) onto the surface of a camera sensor or the retina of a human eye

Not the total amount of pixels – which basically determines the field of view of the camera image - is primordial but a more important specification is the pixel size of the camera sensor. What might be astonishing to know about digital resolution of camera's is the fact, that the higher the magnification, the fewer pixels the chip of a camera needs!

To optimize the transfer of the details of the sample (resolving power) to the camera, the pixel size of the photodiodes of the camera sensor is a key element

EXAMPLE OF A 10X/0.25 OBJECTIVE WITH 1/2 INCH CAMERA SYSTEM



Maximum resolving power limit of a10x/0.25 objective is a 1.1 µm detail

Projected image is 1.1 µm x 10x x 0.5 = 5.5 µm

MAXIMUM AND OPTIMUM PIXEL SIZE REQUIREMENTS:

Obj. Magn.	NA	Resolving power[1] (µm)	Projected size (µm)	Projected size with 0.5x lens (µm)	Maximum [2] camera pixel size (µm)	Optimum [2] [3] camera pixel size (µm)
1x	(0.04)	6.90	6.90	3.45	1.72	1.15
2x	(0.06)	4.60	9.20	4.60	2.30	1.53
4x	(0.10)	2.80	11.2	5.60	2.80	1.86
10x	(0.25)	1.10	11.0	5.50	2.75	1.83
20x	(0.40)	0.69	13.8	6.90	3.45	2.30
40x	(0.65)	0.42	16.8	8.40	4.20	2.80
60x	(0.80)	0.34	20.4	10.2	5.10	2.40
100x	(1.25)	0.22	22.0	11.0	5.50	3.67

[1] Resolving power of the objectives: r = 1.22 • λ / (NA Objective + NA Condenser). With NA = numerical aperture , λ = wavelength and r = optical resolving power. The resolving power limits are based on various theoretical calculations. Low specimen contrast, improper or low illumination conditions, etc, may serve to lower resolving power limits, more often than not, the real-maximum values are not realized in practice

[2] The Nyquist criterion states that the maximum camera pixel size can't exceed half of the resolving limit of the objective. For high resolution images, the Nyquist criterion is even extended to 2.5 to 3 pixels per detail and thus the optimum camera pixel size (3) is calculated as maximum 1/3 of the resolving limit of the objective

[3] Although smaller pixel size of photodiodes of the camera sensor improve the resolution, smaller pixel sizes lower signal to noise ratios, lower the dynamic range and collect less light! Binning techniques can compensate for lower signal to noise ratios



MZ.4700(-HDS)

digital autofocus macrozoom 4K/1080p

The MZ.4700 is an integration of a 1080p HDMI camera, an electrically controlled continuous zoom auto-focus objective together with a stand and illumination system. The MZ.4700 enables direct inspection of objects on a HD screen. The mouse-driven built-in software controls the camera parameters and enables measurements on screen, capturing and saving .jpg or .bmp format pictures and .mp4 format video on a USB memory stick



● *MZ.4700-HDS*



● *MZ.4705*

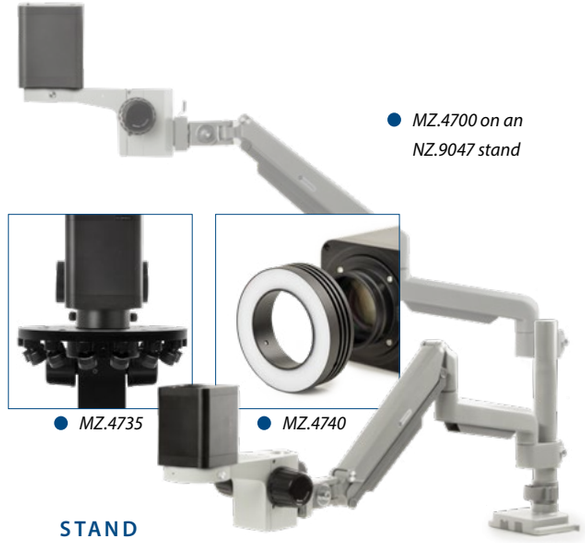
product information



MZ.4700
350 (h) x 375 (w) x 250 mm (d) | 5.1 kg

HIGHLIGHTS

- **Stand-alone or PC operated**
- **Sony 1/2.8" 4K/1080P CMOS sensor**
  18x optical zoom ratio
- **Optical zoom factor up to 5.6x**
- **On-screen magnification from 2.8 to 47x**
- **205 - 215 mm Working distance**
- **Standard LED ringlight**
- **Optional directional LED ringlight**
- **Built-in mouse-driven software**
- **2 Years warranty**



● *MZ.4700 on an NZ.9047 stand*

● *MZ.4735*

● *MZ.4740*

SPECIFICATIONS

ZOOM OBJECTIVE

- The 16 elements objective has an 18x zoom ratio and produces magnifications up to 0.56 magnification with a manual or automatic focusing function
- Fields of view from 255 x 145 mm (1x zoom) to 14 x 8 mm (18x zoom)
- On-screen magnification 2.8 to 47x @190 mm WD (24" screen)
- Focusing range between 205 and 225 mm

WD = working distance

CAMERA

- The 8.3 MP camera is equipped with a Sony 1/2.8 inch 4K UHD/1080P CMOS high-definition sensor with high signal-to-noise ratio. This generates a 3840 x 8160 pixels video streaming, up to 60 images per second*
- The 4K/UHD signal fits the HDMI input of an HD screen
- A built-in SD card is used for image and video storage
- Stand-alone or PC operated (ImageFocus Alpha)

BUILT-IN SOFTWARE

The intuitive built-in software is controlled by the supplied - and to the camera connected - mouse. It features a camera-, an autofocus control panel and a measurement toolbar

ILLUMINATION

A standard LED ringlight assures a good lighting of the sample. A ringlight with 12x 1W, 30° directional LEDs enables extremely flexible lighting of the sample

STAND

- The MacroZoom can be mounted on a dedicated rack&pinion stand with or without a dedicated HD screen
- With the 30° directional 12x 1W LED ringlight (MZ. 4735,) the MacroZoom (MZ.4705) can also be mounted on the NexiusZoom stands (for instance, the NZ.9047, see dedicated datasheet on the website)

PACKAGE CONTENT

Supplied with a standard ringlight, a 32 GB SD card, mouse, WiFi dongle, HDMI cable and external 100-240 Vac / 12Vdc / 3A power supply

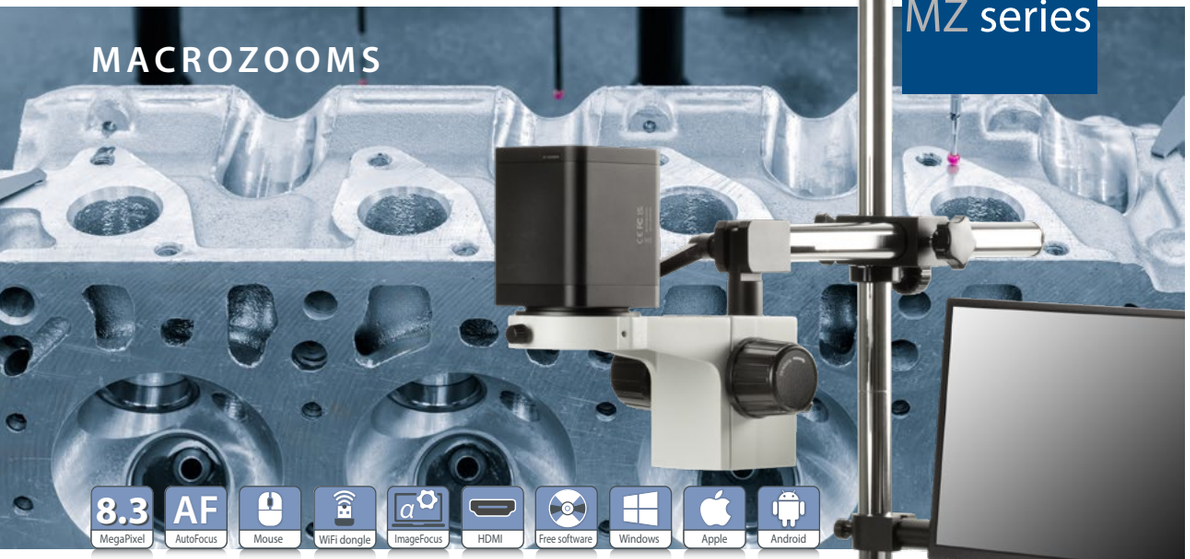
ORDER PRODUCT REFERENCES

MZ.4700	Stand-alone digital autofocus MacroZoom [1] with standard stand
MZ.4700-HDS	Stand-alone digital autofocus MacroZoom [1] with standard stand and HD screen
MZ.4705	Stand-alone digital autofocus MacroZoom [1, 2]
MZ.4710	Standard stand for MZ.4705
MZ.4712	11 inch HD screen for MZ.4710 inclusive pillar attachment
MZ.4740	Standard LED ringlight
MZ.4735	Directional 12 x 1W LEDs ringlight

[1] Supplied with a 32 GB SD card, mouse, WiFi dongle, HDMI cable and External 100-240 Vac / 12Vdc / 3A power supply

[2] The MZ.4705 can also be mounted on NexiusZoom stands

** Frame rates were determined at optimal conditions*



MZ.4702(-HDS)

Long WD AF macrozoom 4K/1080p

The MZ.4702 integrates a high-definition HDMI camera, an electrically controlled continuous zoom auto focus lens, along with a stable stand



● *MZ.4702-HDS*

Designed for direct inspection on an HD screen, the MZ.4702 allows effortless, real-time viewing with smooth 60 fps performance. Its built-in software provides full access to camera settings, on-screen measurement tools and the ability to capture and save images and videos

With an extended working distance and an ultra-wide field of view, the MZ.4702 delivers unmatched versatility and clarity for precision inspection tasks

product information

Incident | LED | Zoom | WiFi dongle | Digital | 100-240V | Warranty

MZ.4702	675 (h) x 380 (w, base plate) 560 (w, all in) x 260 mm (d) | 4.6 kg

HIGHLIGHTS

- **Long working distance up to 67 cm**
- **Autofocus**
- **Stand-alone or PC operated**
- **Sony 8.3 CMOS sensor**
- **18x optical zoom ratio**
- **Auto or manual focus**
- **Great for QC or production sites**
- **400-670 mm extra-large working distance**
- **Built-in mouse-driven software**
- **1 Year warranty**



● *MZ.4707*

SPECIFICATIONS

ZOOM OBJECTIVE

- The 16 elements objective has a 18x zoom ratio with manual or automatic focusing function
- Fields of view from 65 x 37 cm (1x zoom) to 3.6 x 2 cm (18x zoom)
- On-screen magnification 0.8-14.5x @600 mm WD. (24" screen)
- Focusing range is between 400 and 670 mm

WD = working distance

PC/MAC SOFTWARE

Operates with ImageFocus Alpha imaging and measuring software for Windows 10 and higher (32 and 64 bit configurations) MacOS and Linux for a full range of image management tools

PACKAGE CONTENT

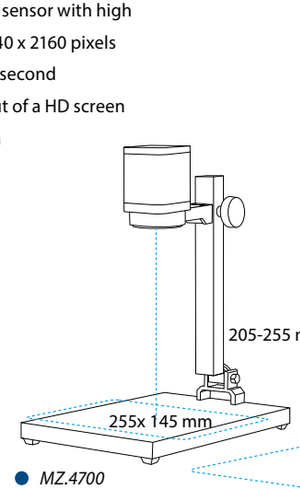
Supplied with a 32 GB SD card, mouse, WiFi dongle, HDMI cable and external 100-240 Vac / 12Vdc / 3A power supply

CAMERA

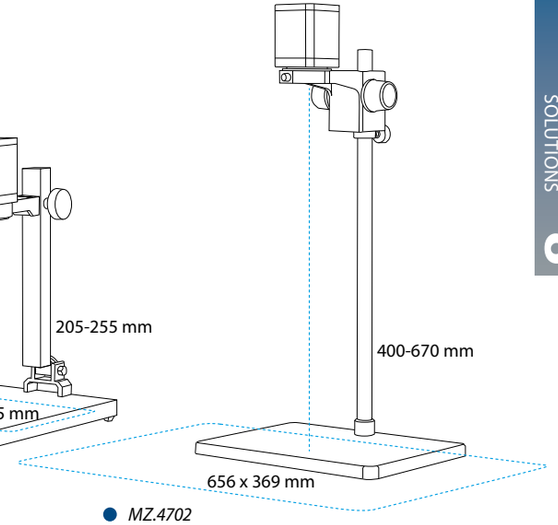
- The 8.3 MP camera is equipped with a Sony 1/2.8 inch 4K UHD/1080P CMOS high-definition sensor with high signal-to-noise ratio generating a 3840 x 2160 pixels video streaming up to 60 images per second
- The 4K/UHD signal fits the HDMI input of a HD screen
- Image and video storage is done on a built-in SD card or USB flash drive (not included)
- Stand-alone or PC operated (ImageFocus Alpha)

ILLUMINATION

For Illumination we recommend using Euromex LE.5207 or LE.5212



● *MZ.4700*



● *MZ.4702*

ORDER PRODUCT REFERENCES

MZ.4702 Stand-alone long working distance digital autofocus MacroZoom* with stand

MZ.4702-HDS Stand-alone long working distance digital autofocus MacroZoom* with stand and HD screen

MZ.4707 Stand-alone long working distance digital autofocus MacroZoom, camera only*

MZ.4714 Standard stand with camera holder for MZ.4702/4707

MZ.4716 11 inch HD screen for MZ.4702/4705, pillar attachment for MZ.4714 included

** Supplied with a 32 GB SD card, mouse, WiFi dongle, HDMI cable and power supply*

MZ.4707 can also be mounted on NexiusZoom stands such as NZ.9047

ACCESSORIES

LE.5207 Economical dual LED intensity adjustable light source with two 44 cm flexible gooseneck arms, each mounted with a 3 W LED

LE.5112 Light source station with multiple power supply connections for two self-sustaining gooseneck-type guides, one ringlight 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



LE.5207

LE.5212

STANDS

NZ.9025 Black articulated stand with table clamp (needs holder NZ.9081)

NZ.9027 Articulated arm stand with heavy stand (needs holder NZ.9081)

NZ.9081 76 mm holder for articulated arm stands NZ.9025 and NZ.9027

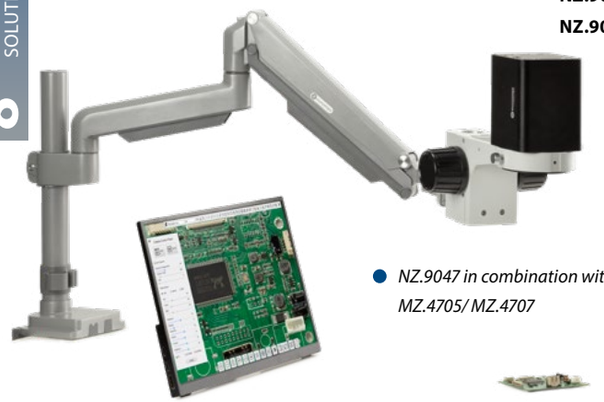
NZ.9030 Universal double-arm stand, needs holder (NZ.9090/9095)

NZ.9032 Universal double-arm stand with table clamp, needs holder (NZ/9090/9095)

NZ.9090 Holder, with coarse control suitable for NZ.9030/9032 stands

NZ.9095 Holder with fine coarse for NZ.9030/9032 stands

NZ.9047 Articulated stand with adjustable tilt, swivel and rotating functions. With desktop clamp for mounting on 10-85 mm tabletops. Can also be fixed on tables with drilled holes. Supplied with 76 mm holder



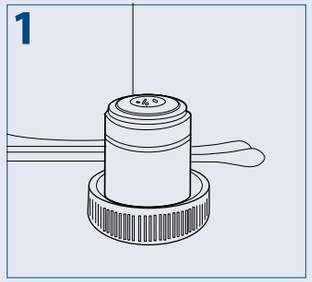
NZ.9047 in combination with MZ.4705/ MZ.4707

how to keep the optics clean

PB.5275 cleaning kit

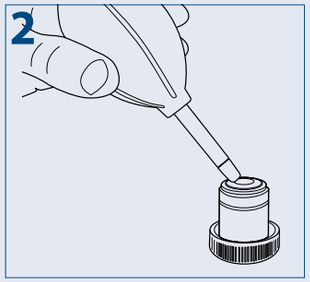
Dust and dirt particles have a negative affect on image quality. Keeping the optical system of your microscope clean is essential for the best image quality and overall life span of your microscope. Dust and dirt on optical elements such as lenses, prisms and filters that are left unattended can be become difficult - or even impossible - to remove and may cause mold

1



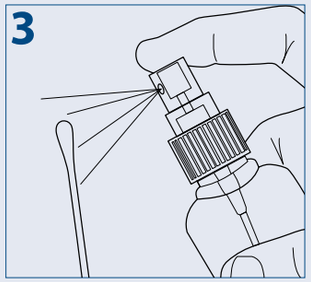
Place your objective or eyepiece on a secure location. One can use the objective's cap or eyepieces can be placed in the cut-outs within the storage box. Condensers and collector lenses can remain on the microscope

2



To prevent scratches on coatings and optical glass, first try to remove dirt and dust that sticks to the optical surface with an air-blower or pressurized dry air (oil-free and under moderate pressure version only)

3



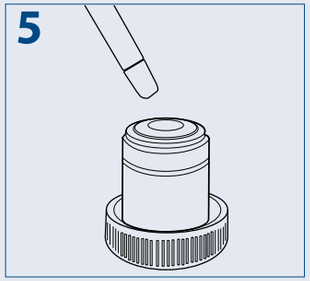
Use an absorbent lens paper or cotton swap. Damp a swap or towel with a small amount of lens cleaning fluid or cleaning mixture (Either pure iso-propanol or a mixture of 7 parts ether and 3 parts alcohol)

4



Clean the lens by using the tip of the cotton swap or lens paper*. When cleaning a large lens surface, wipe with little pressure from the center towards the periphery in a circular motion, do not use zig-zag motion. Discard each lens paper or cotton swap after a single use

5



Wait until the cleaning fluid is evaporated, or speed up this process by using pressurized dry air

6

Check with the help of a magnifying glass if the surface is clean and place the cleaned item back on the nosepiece of the microscope

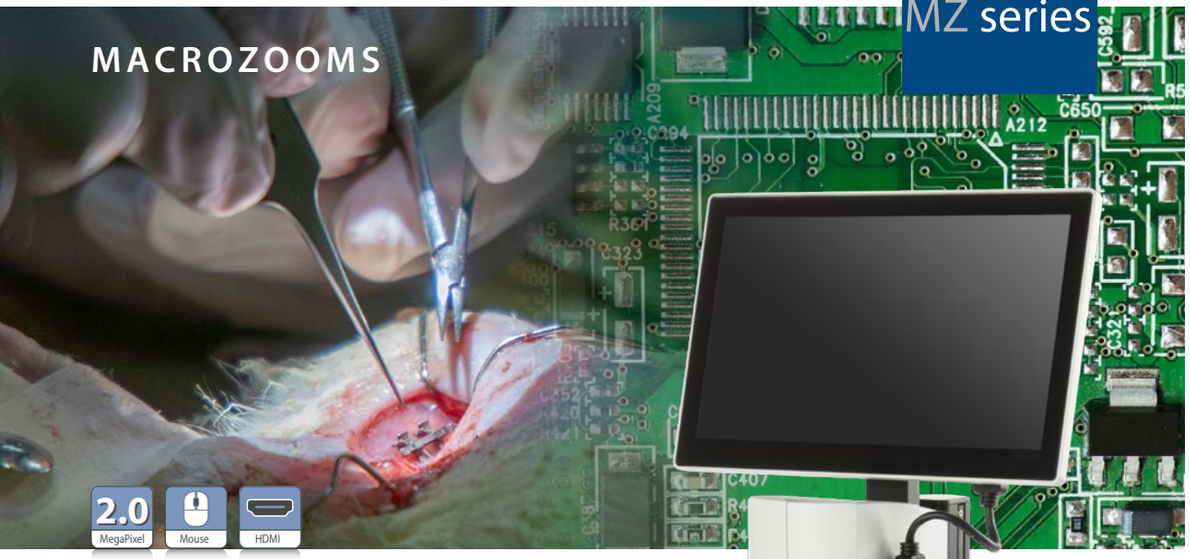


PB.5275

PLEASE NOTE

that cleaning of the optical surfaces indicated in this instruction only applies to external surfaces of objectives, eyepieces, filters and condensers. Internal surfaces must always be done by your Euromex microscope distributor

** Use enough lens paper so that solvents do not dissolve oils from your hands which can make their way through the paper onto the coated surface*



MZ.5000

digital macrozoom

The digital MacroZoom microscope is built around one 0.7 to 5x zoom objective and enables inspection of objects directly on an 11.6" LCD screen, -5° to 15° inclination. This kind of microscope is well-suited for inspection and quality control departments

The digital MacroZoom is equipped with a built-in full high-definition 1080p camera which can deliver up to 60 images per second and is connected either to the supplied and attached 11.6" screen or an external stand-alone HD screen



● *MZ.5000*

product information



MZ.5000
445/635 (h) x 320 (w) x 260 mm (d) | 4.6 kg

HIGHLIGHTS

- **MonoZoom stand-alone digital microscope**
- **Zoom from 0.7x up to 5x**
- **105 mm working distance**
- **110 mm working distance with 0.5x lens**
- **Built-in incident LED ringlight**
- **Built-in 1080p 2 MP HD camera**
- **HD 11.6 inch screen, -5° to 15°**
- **Built-in mouse driven on-screen software**
- **Conveniently build-in capture button**
- **Removable 32 GB memory stick**
- **Metal stand**
- **2 Years warranty**



● *Adjustable screen*

SPECIFICATIONS

CENTRAL ZOOM OBJECTIVE

The digital MacroZoom MZ.5000 features a single zoom objective with a 0.7 to 5x zoom magnification. Zoom adjustment engravings on 1, 1.5, 2, 3, 4 and 5x. The working distance is 105 mm. Supplied with a 0.5x additional lens with a working distance of 110 mm

STAND

The Central Zoom Objective with attached screen and LED ringlight is mounted on a rack and pinion system that sits on a large 320 x 260 mm metal stand. Travel range is 225 mm

ILLUMINATION

A supplied 5,500 K LED ringlight with 56 LED's can be mounted under the microscope body. The intensity is adjustable

BUILT-IN CAMERA

Built-in HD 1080p high-definition 2 MP CMOS high speed camera, 1920 x 1080 pixels, 60 fps* with attached 11.6 screen. The standard field of view is 29.8 to 4.18 and with the 0.5x additional lens from 59 to 8.35. The camera has one HDMI output that can be connected either to the attached screen or to an external HD screen

Two other USB ports accept the supplied 32 GB USB memory stick (up to 128 GB) and a supplied wireless mouse that drives the built-in on-screen software. The operator can also take and save images to the SD card by pressing on a capture button at the right side of microscope body

BUILT-IN SOFTWARE

The built-in on-screen software is mouse driven and features functions such as Capture image, Freeze image, Automatic white balance, Automatic exposition, File manager, Grids and camera settings such as exposure time, gain, saturation, contrast, sharpness, HDR

Measurement functions are also available from the software such as line, area, angle. Images are saved in .jpg format and videos are saved in .avi format. With the digital zoom function, objects can be observed with a magnification up to 70 times

PACKAGE CONTENT

Supplied with 32 GB memory stick, mouse, short HDMI cable for attached screen, external 100-240 Vac / 12Vdc / 3 A power supply

** Frame rates were determined at optimal conditions*

USB CAMERAS

CAMERA FOR EDUCATION AND LABORATORIES



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 higher, both 32 and 64 bits configurations. A MacOS version is also available. Free software can be downloaded from our website



HIGHLIGHTS

- Entry level camera for amateurs, education and laboratories
- 2.0, 5.0 or 12.0 MP
- 1920 x 1080 - 4000 x 3000 pixels
- Color depth 24 bits
- Low signal/noise ratio
- USB 2.0 interface





MODELS	Sensor	Sensor size (inch)	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 CMOS	1/2.9"	2.8 x 2.8	1920 x 1080	30	8 bits	24 bits	72	0.51	DC.2000f
CMEX-5f	5.0 CMOS	1/2.8"	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 CMOS	1/2.3"	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
** Frame rates have been determined at optimal conditions*



● *CMEX-20 Pro*

Advanced CMEX USB-3.0 cameras

with CMOS sensor

The CMEX Pro cameras are equipped with a 5.1, 10 or 20 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 higher, both 32 and 64 bits configurations. A 2 GB RAM 2.8 GHz computer and 17 inch display is recommended. A MacOS 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 /lux-sec	Product number
CMEX-5 Pro	5.0 MP CMOS	1/2.5"	2.2 x 2.2	1 ms ~ 2000 ms	2592 x 1944 1296 x 972 640 x 486	16 50 98	39	68.	1.76 V	DC.5000-PRO
CMEX-10 Pro	10 MP 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 V	DC.10000-PRO
CMEX-20 Pro	20 MP CMOS	1/1.8"	1.4 x 1.4	0.2 ms ~ 15 s	5120 x 3840 2560 x 1920	20 45	39.3	63.8	8.4 ke	DC.20000-PRO

The CMEX-5 Pro, -10 Pro and -20 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 and -10 Pro are supplied with a 0.5x C-mount objective, the -20 Pro with a 0.75x C-mount objective

** Frame rates have been determined at optimal conditions*



● *sCMEX*

sCMEX USB-3.0 cameras

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 higher, both 32 and 64 bits configurations. Also compatible with MacOS. 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	Sensor	Sensor size (inches)	Pixels size (µm)	Exposure time (ms)	Resolutions	Max. frames (p/sec)*	Color rendering	Dynamic range (dB)	S/N Ratio (dB)	Sensitivity V/lux-sec	Product number
sCMEX-6	6.3 MP sCMOS	1/1.8"	2.5 x 2.5	0.1 ~ 15,000	3072 x 2048 1536 x 1024	30 38	36 bits	66.8	44.51	0.15	DC.6000s
sCMEX-12	12 MP sCMOS	1/1.6"	2.0 x 2.0	0.013 ~ 15,000	3536 x 3536 1768 x 1768	27 60	36 bits	69.8	40.7	0.17	DC.12000s
sCMEX-20	20 MP sCMOS	1"	2.4 x 2.4	0.1 ~ 15,000	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 MP sCMOS	1.15"	2.3 x 2.3	0.1 ~ 15,000	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.6000s is supplied with a 0.5x objective, the DC.12000s is supplied with a 0.75x objective and the DC.20000s and DC.32000s are supplied with a 1.0x adapter

** Frame rates have been determined at optimal conditions*





● *DC.20000i and DC.6000i*

CMEX-5 WiFi-4

digital WiFi camera with 1/1.8 inch 4 MP CMOS sensor

The CMEX-5 WiFi-4 camera is equipped with a 4.0 MP Sony CMOS sensor with 12 bits grayscale conversion and a 24 bits color rendering and it can be used either through the USB data interface or through the WiFi interface

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 0.5x C-mount objective is included

MODEL	Sensor	Sensor size (inches)	Pixels size (µm)	Resolutions	Grayscale conversion	Color rendering	Signal/ Noise(dB)	Dynamic (dB)	Sensitivity V/ lux-1/30 s	Product number
CMEX-5 WiFi-4	4.0 MP CMOS	1/1.8"	2.9 x 2.9	2688 x 1512	12 bits	24 bits	44	48	921	DC.5000-WiFi-4

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 0,5x 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 higher, both 32 and 64 bits configurations. Free software is available on www.euromex.com. A MacOS version is also available (with a few differences in features)

MODELS	Sensor	Sensor size (inches)	Pixel size (µm)	Resolutions	Max. frames (p/sec)*	USB-3	Dynamic range (dB)	S/N Ratio	Sensitivity @ 1/30 sec	Peltier cooling
DC.6000i	6.0 MP CCD	1"	4.54 x 4.54	2748 x 2200 2748 x 1092	7.5 14	•	62.34	41.6	880 mV	•
DC.20000i	20 CMOS	1"	2.4 x 2.4	5440 x 3648 4096 x 2160 2736 x 1824 1824 x 1216	5 10 15 30	•	66.3	41.74	462 mV	•

** Frame rates have been determined at optimal conditions*

HD AND HD-AUTOFOCUS CAMERAS



(Ultra) high-definition cameras

CMOS color cameras

These UHD-4K and HD 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" or 13" 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

Almost all HD cameras offer a full range of measuring functions on live and captured images

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 higher, 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

- **(Ultra) high-definition 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**
- **GbE (Ethernet) (VC.3042)**
- **WiFi (VC.3042 and VC.3034)**
- **Autofocus model available**
- **Compatible with ImageFocus software**



VC.3036-HDS on stereo microscope



VC.3034-HDS on the BioBlue

PACKAGE CONTENT*

MODELS	HD-Mini 2.0 MP	HD-Lite 5.0 MP	HD-Pro 8.0 MP	HD-Ultra 6.0 MP	UHD-4K Touch 8.0 MP	UHD-4K 8.3 MP	UHD-4K-16 16 MP
C-mount with objective	0.37x	0.45x	0.37x	0.37x	0.5x	0.5x	1x
30 and 30.5 mm adapters	•	•	•	•	•	•	•
SD card	32 GB	16 GB	32 GB	16 GB	32 GB	32 GB	32 GB
Cailbration slide 10mm/100	•	•	•	•	•	•	•
External power supply	12V 1A	12V 2A	12V 1A	12V 2A	12V 2A	12V 1A	12V 1A
Dimensions (w x d x h)	51ø x 60 50 x 50 x 60	80 x 70 x 90	81 x 65 x 78	80 x 70 x 90	88 x 78 x 65	88 x 78 x 65	88 x 78 x 65
Product number	**VC.3023**	**VC.3031**	**VC.3039**	**VC.3036**	**VC.3043**	**VC.3045**	**VC.3048**
With HD screen	13" **VC.3024-HDS**	11.6" **VC.3031-HDS**	13" **VC.3039-HDS**	11.6" **VC.3036-HDS**	13" Touch **VC.3043-HDS**	13" **VC.3045-HDS**	13" **VC.3048-HDS**

ALL HD-CAMERAS

MODELS	HD-Mini	HD-Lite	HD-Pro HDMI	HD-Ultra	UHD-4K Touch	UHD-4K	UHD-4K-16
Sensor	Sony	Sony	Sony	Sony	Sony 4K	Sony 4K	Sony 4K
Format	1/2.8", HDTV 1080p	1/2.8", HDTV 1080p	1/2.8", HDTV 1080p	1/2.8", HDTV 1080p	1/1.8", HDTV 4K	1/1.8", HDTV 4K	1/1.1", HDTV 4K
Resolution*	1920 x 1080 [1,2] 60 fps*	2592 x 1944 [1] 1920 x 1080 [2] 15 fps*	3840 x 2160 [1] 1920 x 1080 [2] 26-60 fps*	3264 x 1836 [1] 1920 x 1080 [2] 30-60 fps*	3840 x 2160 [1,2] 20-30 fps*	3840 x 2160 [1,2] 30-60 fps*	5440 x 3060 [1] 5440 x 3060 (USB 3.0) [2] 20-30 fps*
Pixel size	2.9 x 2.9 (µm)	2.0 x 2.0 (µm)	1.45 x 1.45 (µm)	2.8 x 2.8 (µm)	2.0 x 2.0 (µm)	2.0 x 2.0 (µm)	2.4 x 2.4 (µm)
Video output	HDMI	HDMI, USB-2.0	HDMI, USB-C	HDMI, USB-2.0	HDMI, USB-2.0	HDMI, USB-3.0[3], Ethernet, WiFi	HDMI, USB-3.0[3], Ethernet, WiFi
Exposure	Automatic/ manual	Automatic/ manual	Automatic/ manual	Automatic/ manual	Automatic/ manual	Automatic/ manual	Automatic/ manual
White balance	Automatic/ manual	Automatic/ manual	Automatic/ manual/ROI	Automatic/ manual	Automatic/ manual/ROI	Automatic/ manual/ROI	Automatic/ manual/ROI
Sensitivity lux-sec	1300 mV	1000 mV	300 mV (1/30s)	510 mV	505 mV	3541 mV with 1/30 s	1847 mV with 1/30 s
Color rendering	12 bits	24 bits	24 bits	36 bits	32 bits	36 bits	36 bits
Signal/Noise (db)	42	40.5	38	55	40.5	40.5	40.6
Dynamic (db)	69	60	66	69	60	60	48
Interface	HDMI	HDMI, USB-2	HDMI, USB-C	HDMI, USB-2	HDMI, USB-2	HDMI, USB-3 [3], Ethernet, WiFi	HDMI, USB-3 [3], Ethernet, WiFi
Camera buttons	--	on/off	on/off	on/off	on/off	on/off	on/off
Mounting	C-mount	C-mount	C-mount	C-mount	C-mount	C-mount	C-mount
Storage	32 GB SD card (max.128 GB)	16 GB SD card (max. 32 GB)	32 GB SD card (max. 128 GB)	16 GB SD card (max. 32 GB)	32 GB SD card (or USB drive)	32 GB SD card (or USB drive)	32 GB SD card (or USB drive)
Software	--	ImageFocus Plus	ImageFocus Alpha	ImageFocus Plus	ImageFocus Alpha	ImageFocus Alpha	ImageFocus Alpha
Software languages	--	13 [5]	15 [6]	13 [5]	15 [6]	15 [6]	15 [6]
External power supply	100-240 Vac to 12Vdc/1A	100-240 Vac to 12Vdc/2A	100-240 Vac to 12Vdc/2A	100-240 Vac to 12Vdc/2A	100-240 Vac to 12Vdc/2A	100-240 Vac to 12Vdc/1A	100-240 Vac to 12Vdc/1A
Relative humidity	30 - 80 %	45 - 85 %	30 - 80%	45 - 85 %	30 - 80 %	30 - 80 %	30 - 80 %
Temperature Operation Storage	-10 - 50° C -20 - 60° C	0 - 60° C -20 - 70° C	-10 - 50° C -20°C - 60° C	0 - 60° C -20 - 70° C	-10 - 50° C -20 - 60° C	-10 - 50° C -20 - 60° C	-10 - 50° C -20 - 60° C
Compatible	--	Win 10 + higher MacOS	Win 10 + higher MacOS, Linux	Win 10 + higher MacOS	Win 10 + higher MacOS, Linux	Win 10 + higher MacOS, Linux	Win 10 + higher MacOS, Linux
Product number	**VC.3023 VC.3024-HDS [4]**	**VC.3031 VC.3031-HDS [4]**	**VC.3039 VC.3039-HDS [4]**	**VC.3036 VC.3036-HDS [4]**	**VC.3043-HDS Touch [4]**	**VC.3045 VC.3045-HDS [4]**	**VC.3048 VC.3048-HDS**

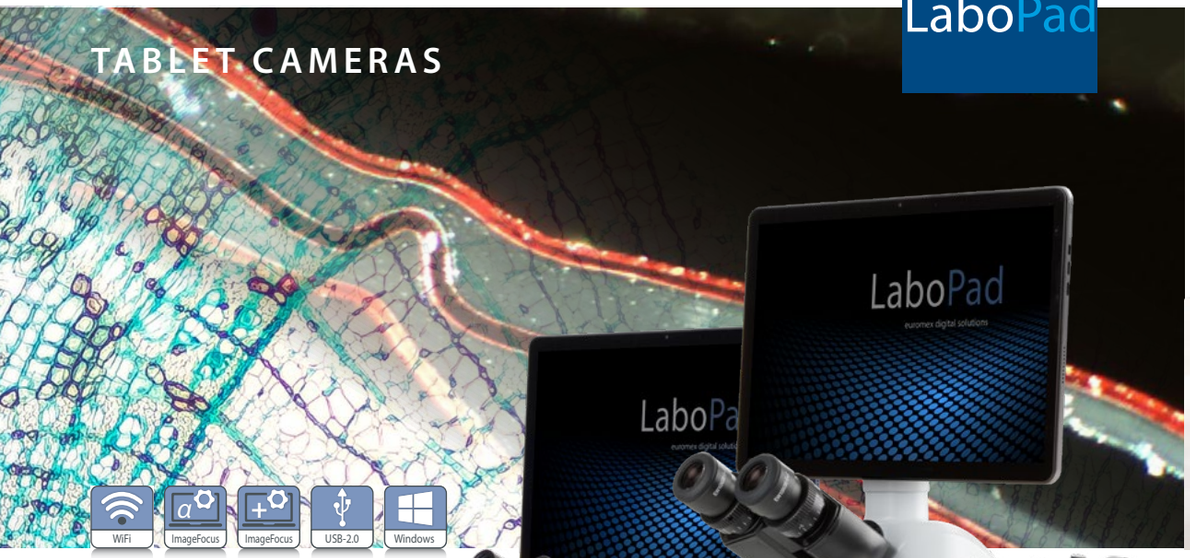
** Frame rates depend on resolution and output mode and have been determined at optimal conditions*
[1] capture mode (resolution depends on output mode)
[2] live view (resolution depends on output mode)
[3] USB-2.0 compatible but limitations in speed and resolution
[4] model with attached HD screen, 1080p

[5] English, Chinese Simplified, Traditional Chinese, Thai, German, Italian, French, Korean, Japanese, Russian, Polish and portugese
[6] English, Catalan, Indonesian, Polish, Chinese Simplified, Traditional Chinese, Thai, German, Italian, French, Korean, Japanese, Russian, Turkish, Spanish

BUILT-IN SOFTWARE FEATURES (HDMI MODE)

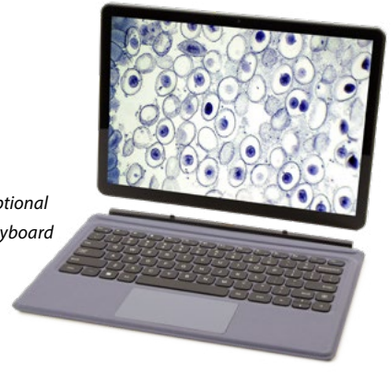
MODELS	HD-Mini	HD-Lite	HD-Pro HDMI	HD-Ultra	UHD-4K Touch	UHD-4K	UHD-4K-16
Image capturing (JPEG)	1920 x 1080	2592 x 1944	3840 x 2160	3261 x 1840	3840 x 2160	3840 x 2160	5440 x 3060
Video recording	1920 x 1080 MP4	1920 x 1080 AVI	1920 x 1080 MP4	1920 x 1080 AVI	3840 x 2160 MP4	3840 x 2160 MP4	3840 x 2160 MP4
Browse saved images	•	•	•	•	•	•	•
Browse saved video's	•	•	•	•	•	•	•
Mouse driven	•	•	•	•	•	•	•
Auto exposure	•	•	•	•	•	•	•
Exposure time	0.01 ~ 1000 ms	0.001s ~ 10 s	0.04 ~ 1000 ms	0.001s ~ 10 s	0.04 ~ 1000 ms	0.04 ~ 1000 ms	0.04 ~ 1000 ms
Gain	•	•	•	•	•	•	•
RGB & white balance	•	•	•	•	•	•	•
Gamma	•	•	•	•	•	•	•
Sharpness	•	•	•	•	•	•	•
Noise reduction	3D algorithm	3D algorithm	3D algorithm	3D algorithm	standard noise reduction	3D algorithm	3D algorithm
Saturation & contrast	•	•	•	•	•	•	•
Horiz. & vert. flip	•	•	•	•	•	•	•
Grids	multi	multi	User defined	cross/multi	cross/multi	cross/multi	cross/multi
Autofocus	--	--	--	--	--	--	--
Compare function	--	•	•	•	•	•	•
Measurement functions	captured & live images	--	captured & live images	captured & live images	captured & live images	captured & live images	captured & live images
Line & free curve	--	--	•	•	•	•	
Polygon & rectangle	--	--	•	•	•	•	
Angle	--	--	•	•	•	•	
Circle 3 points	--	--	•	•	•	•	
Circle radius	--	--	•	•	•	•	
Export function	--	--	CSV	CSV, Txt	CSV	CSV	CSV
Languages	10 [4]	9 [3]	10 [4]	9 [3]	10 [4]	10 [4]	10 [4]
Product number	**VC.3023 VC.3024-HDS [4]**	**VC.3031 VC.3031-HDS**	**VC.3039 VC.3039-HDS**	**VC.3036 VC.3036-HDS**	**VC.3043 VC.3043-HDS Touch**	**VC.3045 VC.3045-HDS**	**VC.3048 VC.3048-HDS**

HDMI mode
[3] English, Chinese Simplified, Traditional Chinese, German, Italian, French, Korean, Japanese, Spanish
[4] English, Chinese Simplified, Traditional Chinese, Thai, German, Italian, French, Korean, Japanese, Russian



LaboPad

Discover the LaboPad – a versatile **tablet microscope camera system** that can easily be mounted onto your microscope. Capture stunning images and videos, then edit and analyze them with powerful ImageFocus software. The LaboPad can be detached for use as a regular tablet, offering flexibility in and out of the lab. An optional attachable keyboard adds even more functionality, making it the perfect all-in-one solution for modern microscopy



product information

- *LP.1000, optional click-on keyboard*

SOFTWARE

LaboPad USB camera works with ImageFocus Plus software and LaboPad with WiFi camera works with ImageFocus Alpha. The WiFi camera can also be operated using IOS or Android apps



- *LaboPad, detachable, take it anywhere*

HIGHLIGHTS

- **12.1" Tablet with microscope camera**
- **2160 x 1440 pixels touch screen**
- **Windows 11**
- **ImageFocus Plus software for PC**
- **IF Alpha for WiFi enabled PC, Android and iOS devices**
- **Tablet can be fully detached from camera**
- **Optional keyboard**

SPECIFICATIONS

Processor	Quad Core max 3.3 GHz HD graphics processor
Screen	12.1 inch IPS 2160*1440 / 3:2
Memory	12 GB
Storage	512 GB Flash HDD, micro SD/SDHC slot for cards up to 64 GB
Webcam	2 MP front and 5MP rear camera
Connectivity	2x USB-C, WiFi 6 and Bluetooth 4.0
Audio	Stereo with 3.5 mm audio jack, internal microphone and speaker
Battery	Lithium, 38Wh, 5000mA
Weight	0.8 KG (tablet) 4.8 kg (complete)
System	Windows 11
Software	ImageFocus Plus or -Alpha, depending on version

Specifications can be changed by Euromex microscopen bv without notice.
Consult website to check latest specifications

MODELS

Camera (MP)	Sensor size	Resolution	Pixels size (µm)	ADC	Color rendering	Dynamic (dB)	Sensitivity	Software	Product number
LaboPad-2	2.1	1/2.9"	1920 x 1080	2.8 x 2.8	12 bits	24 bits	- -	0.51 V/lux-sec	IF Plus	LP.2000f
LaboPad-5	5.1	1/2.8"	2592 x 1920	2.0 x 2.0	12 bits	24 bits	72 dB	2.0 V/lux-sec	IF Plus	LP.5000f
LaboPad-12	12.0	1/2.3"	4072 x 3176	1.33 x 1.33	8 bits	24 bits	60 dB	1.5 V/lux-sec	IF Plus	LP.12000f
LaboPad-WiFi	4	1/1.8"	2688 x1512	2.9 x 2.9	12 bits	24 bits	48 dB	0.9 V/lux-1/30 sec	IF Alpha	LP.5000-WiFi

All LaboPads have ImageFocus preinstalled
The WiFi model connects to the pad via USB or WiFi, but allows use of the ImageFocus apps (IOS/Android)
All LaboPad models are supplied with a C-mount objective that fits the standard 23.2 mm trinocular tubes

DIGITAL SOLUTIONS 8

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	
VC.3031(-HDS)	DC.2000f
VC.3036(-HDS)	DC.5000f
	DC.12000f

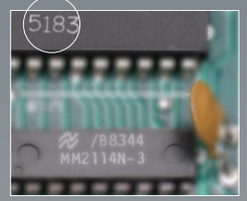
IMAGE FOCUS ALPHA	
MZ.4700(-HDS)	DC.5000-WiFi-4
MZ.4702(-HDS)	DC.6000i
	DC.20000i
VC.3039(-HDS)	DC.6000s
VC.3043-(HDS)	DC.12000s
VC.3045-(HDS)	DC.20000s
VC.3048-(HDS)	DC.5000-Pro
	DC.10000-Pro
	DC.20000-Pro
	DC.32000-PRO

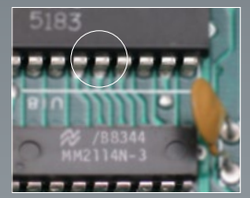
IMAGE STITCHING

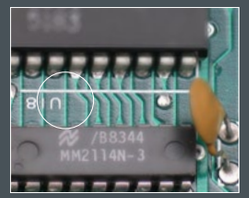
Image stitching is the process of combining multiple images with overlapping fields of view to produce one image

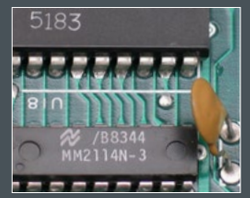
EXTENDED DEPTH OF FOCUS

"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)









ImageFocus

FREE UPDATES AVAILABLE ON EUROMEX.COM

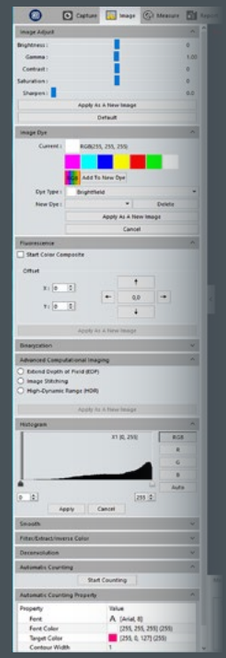
ImageFocus Plus

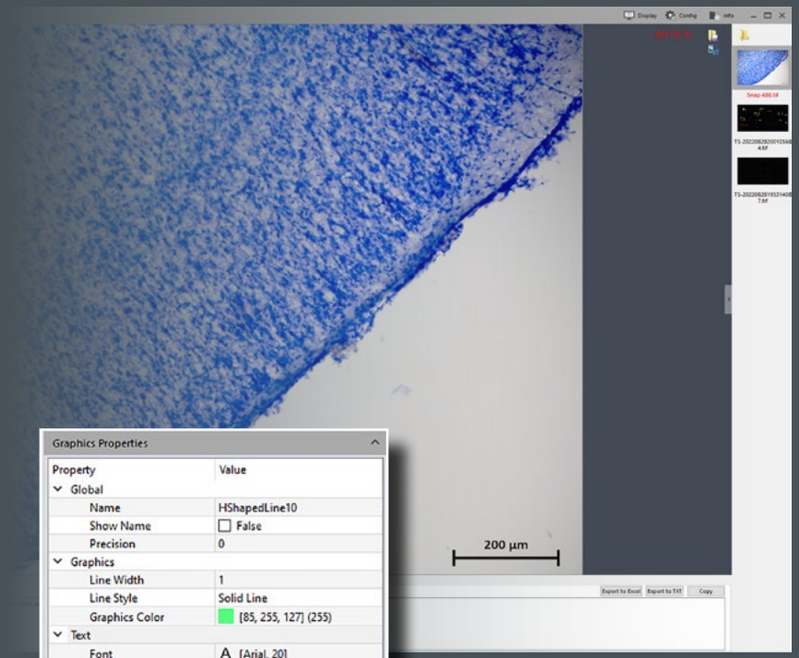
software

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 higher, both 32 and 64 bits configuration. A MacOS 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

downloads







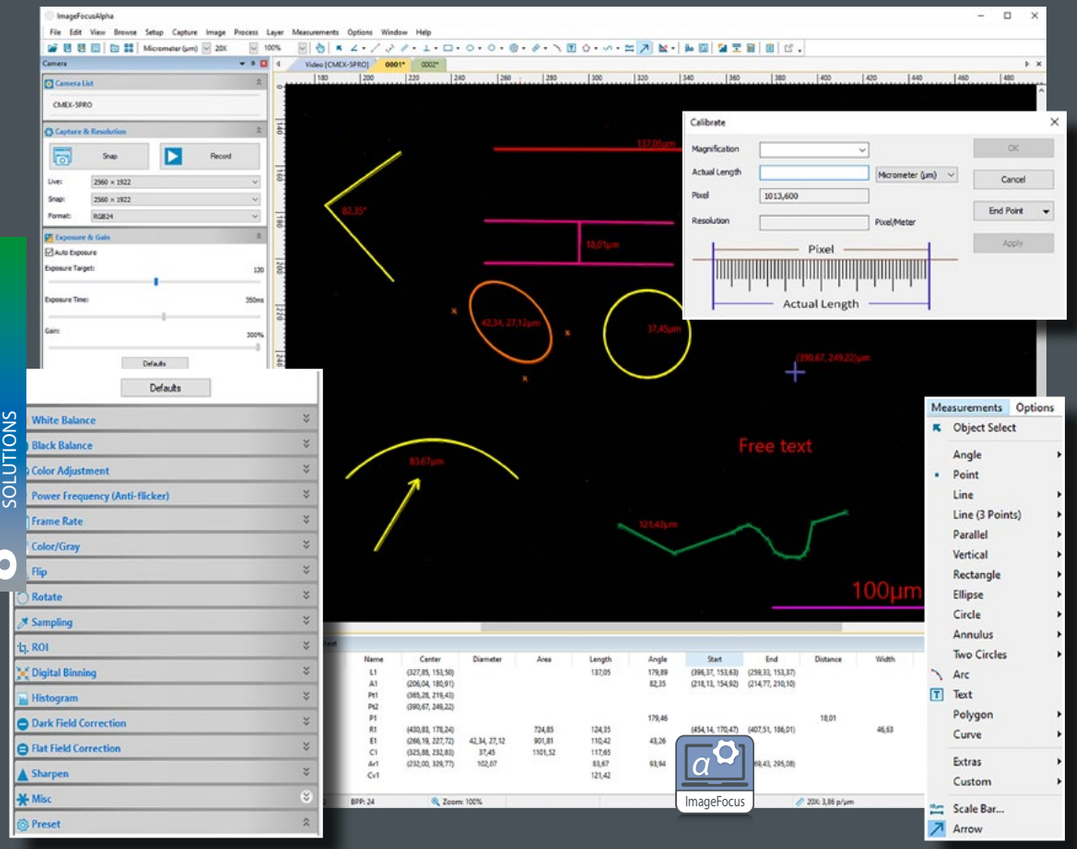


ImageFocus Alpha
software

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 higher, both 32 and 64 bits configuration. A MacOs 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



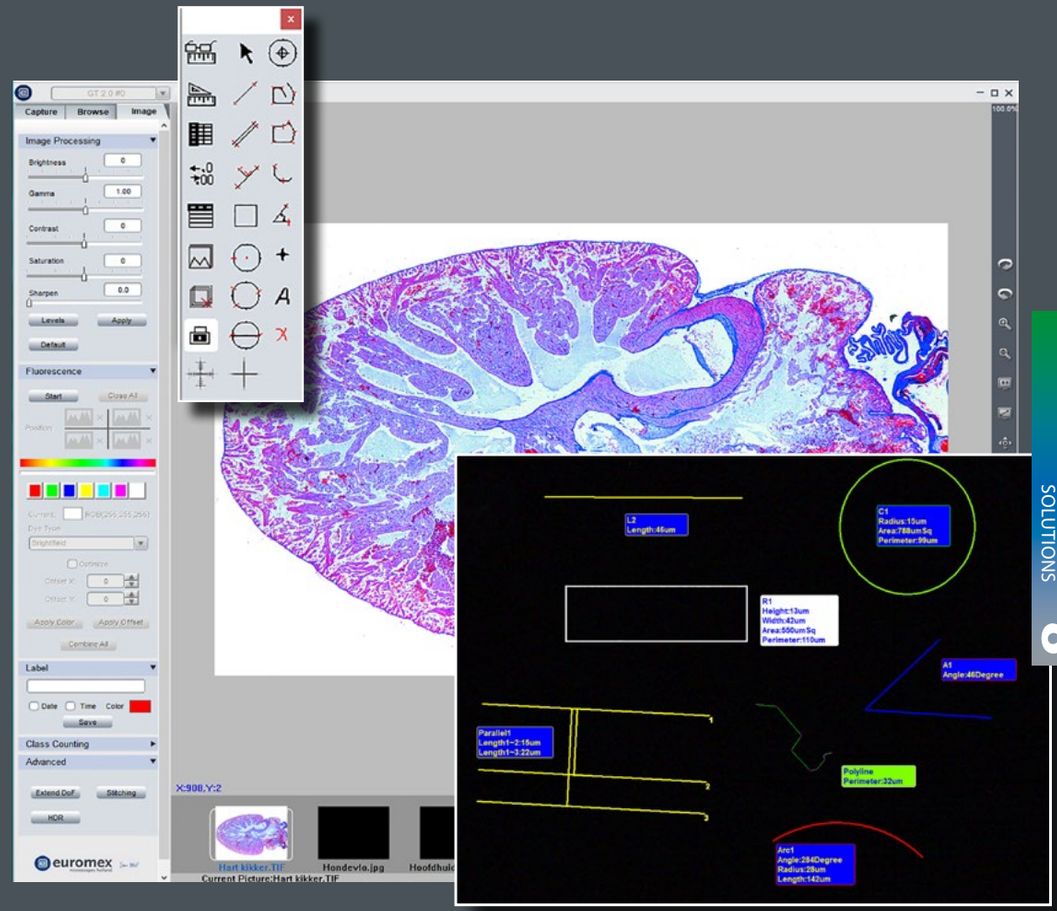
ImageFocus 4
software

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 higher, both 32 and 64 bits configuration. A MacOs 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



ImageFocusLabs

software for materials science

ImageFocusLabs is specifically designed to support your daily microscopy routines, micro-imaging and microstructure analysis. With an intuitive and user-friendly interface, the software streamlines your quality control procedures, improving both accuracy and consistency

Easy to use control panels guide you step-by-step through each analysis, removing guesswork and ensuring reliable, repeatable results

TWO EDITIONS – SCALABLE TO YOUR NEEDS

ImageFocusLabs is available in two versions. These two options ensure a tailored solution for every laboratory. Software is supplied on a encrypted, licensed USB-dongle.

ImageFocusLab Grain size:
Includes Image capture +
Manual and Auto Measurements tools
Manual Count, Annotations
ASTM Grain Size analysis as per ASTM E112
Product number: SW.1051-G

ImageFocusLab Cast iron size:
Includes Image capture +
Manual and Auto Measurements tools
Manual Count, Annotations
Cast Iron analysis as per ASTM A247
Product number: SW.1051-C

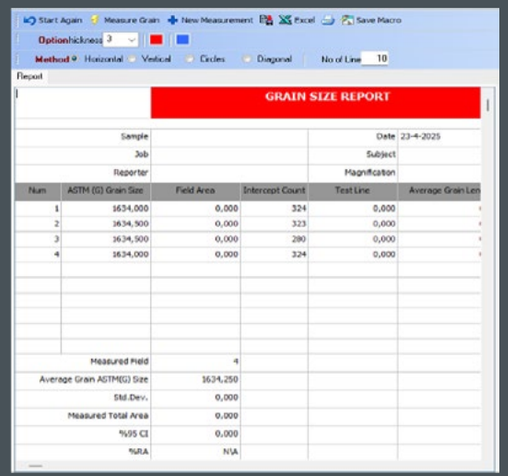
OPTIMIZED FOR EUROMEX MICROSCOPY SYSTEMS

ImageFocusLabs is engineered for seamless integration with Euromex CMEX-PRO and sCMEX cameras, as well as the full range of Euromex metallurgical and stereo microscopes. With this perfect synergy between hardware and software, Euromex delivers a complete turnkey solution for high-performance metallurgical analysis and documentation

Key features

CUSTOMIZED REPORTING & USER SUPPORT

- Automatically compiled report sheets for all measurements according to industry standards
- Easy export to Excel
- Add your company logo, calibration scale, annotation text and arrows
- Save images with measurement overlays
- Access the built-in user manual with one click

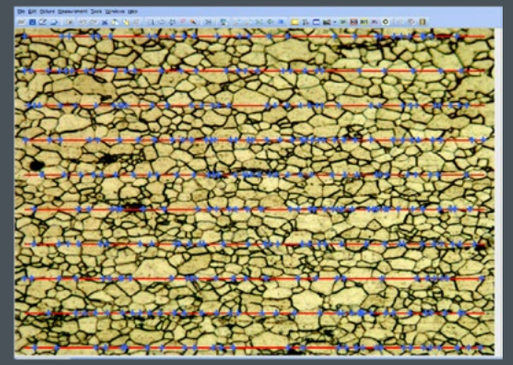


Grain size analysis

Grain boundaries are detected automatically

Calculates grain size using:

- Horizontal, vertical, diagonal and circular intercept methods
- ASTM Grain Size Number (G value)
- 95% Confidence Interval and Relative Accuracy (RA)
- Comprehensive reporting included

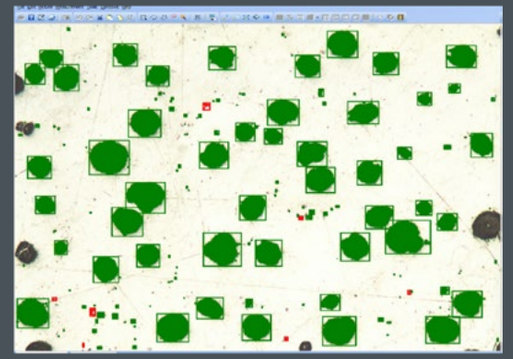


Cast iron size analysis

NODULARITY ANALYSIS

Conforms to ASTM A247, automatically measures graphite percentage, nodule density per mm^2, nodularity by area and count, classification and color-coding from class 1 to 8, ferrite and pearlite matrix percentages

Results are automatically compiled into a clear, structured report with multi-image statistics



PHASE ANALYSIS (%)

Segment and quantify metallurgical phases like Ferrite, Pearlite and Graphite using threshold-based selection.



SPHERICITY

Calculates the percentage of round (spheritized) graphite particles: (based on ASTM A247)

Adjustable shape factor (default 0.6), counts spherical and non-spherical particles, includes pore/particle size distribution tables and color-coded classifications

PARTICLE SIZE & PORE ANALYSIS

Detect and measure micro-objects or pores, categorize by radius and diameter and export full results to Excel.



GRAY IRON & FLAKE ANALYSIS

Analyzes and classifies graphite flakes:

Measures flake length and class

Calculates average % graphite, Ferrite and Pearlite

All data integrated into a single report

ADAPTERS

FOR ALL MICROSCOPE CAMERAS

adapters



● *AE.5130*



● *NZ.9850*

adapter guide

microscope and camera

Most Euromex cameras are supplied with a photo port C-mount adapterto 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. To connect our cameras to another microscope brand, see adapter references below:

** Except for the Oxion, Oxion Inverso and Delphi-X Inverso series. They need an additional adapter. See next page*

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)
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)
Zeiss [3]	AE.9835-Z (0.35x)	AE.9850-Z (0.50x)	AE.9865-Z (0.65x) AE.9880-Z (0.80x)	AE.9810-Z (1x)
Zeiss PrimoStar 3 [4]	AE.9835-ZP3 (0.35x)	AE.9850-ZP3 (0.50x)	AE.9865-ZP3 (0.65x)	AE.9810-ZP3 (1x)
Zeiss ZA [5]	- -	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 [6]	AE.9835-N (0.35x)	AE.9855-N (0.55x)	AE.9870-N (0.70x) AE.9880-N (0.80x)	AE.9810-N (1x)

[1] Leica DM, 35 mm to 25.4 mm C-mount, stainless steel
[2] Olympus CX , CX2, BX, BX2, IX, MX, GX, SZX, STM, 42 mm to 25.4 mm C-mount, anodized aluminum
[3] Zeiss PrimoStar, PrimoStar Vert, 30 mm to 25.4 mm C-mount, anodized aluminum
[4] Zeiss PrimoStar, C-mount, anodized aluminum
[5] 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
[6] Nikon E100, E200, 50i, 55i, 80i, 90i, Ni series, Ti Series, SMZ800,SMZ1000, SMZ15000, 38 mm to 25.4 mm C-mount, stainless steel
Standard C-Mount: 25.4 mm (1 inch) diameter with 32 threads per inch



● *AE.9835-L*

23.2 MM PHOTO PORT C-MOUNT ADAPTERS

Suitable for all Ø 23.2 mm (photo) tubes

DC.1324 C-mount adapter with 0.45x objective for 1/2" camera
DC.1353 C-mount adapter with 0.37x objective, fixed focal length and short barrel*. For 1/3" camera
DC.1355 C-mount adapter with 0.50x objective, fixed focal length and short barrel*. For 1/2" camera
DC.1357 C-mount adapter with 0.75x objective, fixed focal length and short barrel*. For 2/3" camera
DC.1359 C-mount adapter with 1x lens, fixed focal length and short barrel, for standard 23.2 mm tube and 1" camera
DC.1330 30 mm to 23.2 mm conversion adapters
DC.1335 30.5 mm to 23.2 mm conversion adapters

** for increased light efficiency*



● *DC.1355*



● *DC.1330 / DC.1335*



● *DC.1324*



● *AE.5130*



● *AE.5120-2*

PHOTO PORT ADAPTERS

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

Achios-X Observer

AX.9850 C-mount adapter 0.5x (standard included)
AX.9810 C-mount adapter 1x

Achios-X Inverso, AI.1053 and AI.3153 models

AI.9810-3 C-mount photo adapter 1x
AI.9850-3 C-mount photo adapter 0.5x

Achios-X Inverso, AI.4058 and AI.4158 models

AI.9810-4 C-mount photo Adapter 1x
AI.9870-4 C-mount photo Adapter 0.7x
AI.9850-4 C-mount photo Adapter 0.5x

bScope materials BS.40XX models

BS.9810 C-mount with 1x magnification for 1 inch sensor cameras
BS.9850 C-mount with 0.5x magnification for 1/2 inch sensor cameras
BS.9865 C-mount with 0.65x magnification for 2/3 inch sensor cameras

Delphi-X Inverso

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

Delphi-X Observer

DX.9835 C-mount with high resolution relay 0.35x objective for 1/3 inch C-mount camera
DX.9850 C-mount with high resolution relay 0.50x objective for 1/2 inch C-mount camera
DX.9863 C-mount with high resolution relay 0,63x objective for 2/3 inch C-mount camera
DX.9810 C-mount with 1 magnification for C-mount camera

Oxion Inverso

OX.9810 C-mount adapter with 1x magnification for 1" cameras
OX.9833 C-mount adapter with 0.33x objective for Oxion microscopes and 1/3" cameras
OX.9850 C-mount adapter with 0.5x objective for Oxion and Oxion Inverso microscopes and 1/2" cameras

NexiusZoom

NZ.9850 C-mount adapter with 0.5x objective for NexiusZoom microscopes and 1/2" cameras

StereoBlue

SB.9850 C-mount adapter with 0.5x objective for StereoBlue microscopes and 1/2" cameras



accessories

accessories

for microscopy



product information

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MICROSCOPE PREPARED SLIDES • 374
MICROSCOPE SLIDES PROFESSIONAL • 386
DISPOSABLES • 392
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9 ACCESSOIRES FOR MICROSCOPY

LE.1975

FEATURED



LE.1975

Discover the LE.1975, a polarizing LED ringlight
page 366

illumination solutions



education university life science industry

illumination solutions

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

9 ACCESSOIRES FOR MICROSCOPY

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 or the dual LE.5214 light fiber conductors. The LE.5213 and LE.5214 light conductors can be equipped with a lens holder (LE.5222) and a focusing lens (LE.5224)

● ***LE.5211-LED / LE.5211*** *+ LE.5214 +2x LE.5222 + 2x LE.5224*

Power	150 W halogen	30 W PowerLED (equivalent to 120 W halogen)
Luminous flux	21,000 lux max [1)]	30,000 lux max.*
Color temperature	3,000 K	6,500 K
Operating voltage	230 V ac / 15 V dc (50/60 Hz)	230 V ac / 12 V dc (50/60 Hz)
Dimensions	(h) 150 x (w) 150 x (d) 230 mm	150 (h) x 150 (w) x 230 mm (d)
Weight	3,9 kg	2.8 kg
Model	**LE.5211**	**LE.5211-LED**

** with LE.5214 dual arm light conductor*

MULTIFUNCTIONAL 100 W HALOGEN • COLD LIGHT SOURCE

This popular multifunctional cold light source contains a 100 W halogen light source. The intensity is adjustable and it has a built-in forced air cooling. The LE.5210 light source requires a light fiber conductor such as the single LE.5213 or the dual LE.5214 light fiber conductors. The LE.5213 and LE.5214 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	110 and 230 V ac / 12 V dc (50/60 Hz)
Dimensions	115 (h) x 320 (w) x 215 mm (d)
Weight	3.8 kg
Model	**LE.5210**

** with LE.5214 dual arm light conductor*

COMPACT SINGLE 20 W LIGHT SOURCE



Compact cold light source with single 40 cm, 6 mm diameter fiber light conductor. Equipped with a 20 W halogen lamp. Light intensity is factory preset and can not be adjusted

Power	20 W halogen
Color temperature	3,000 K
Operating voltage	110 V ac and 230 V ac versions (50/60 Hz)
Dimensions	80 (h) x 110 (w) x 165 mm (d)
Weight	2.0 kg
Model	**LE.5209**

ECONOMICAL AND COMPACT DUAL 3 W LED • LIGHT SOURCE

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

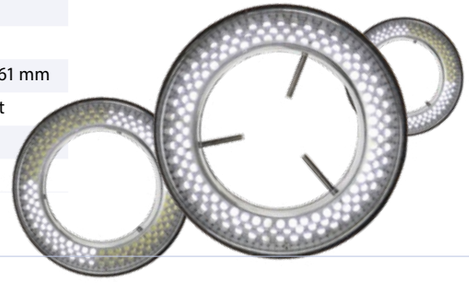


Power	2x 3 W LED = 2x 28 W halogen equivalent
Luminous flux	25,000 lux
Color temperature	6,500 K
Operating voltage	100-240 V ac / 5 V dc (50/60 Hz)
Dimensions	70 (h) x 106 (w) x 140 mm (d)
Weight	1.5 kg
Model	**LE.5207**

144 LEDS RINGLIGHT SOURCE • LE.1973

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**

LED ringlight source with high illuminance and segment illumination for all kinds of demanding applications



COMPACT 72 LEDS • LE.1974

Compact 20,000 lux LED ringlight 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**

LED RINGLIGHT • LE.1979

Ring illumination	144 LEDs with adjustable intensity and diffuser
Color temperature	6,500 K
Illuminance	21,000 lux at 100 mm distance
working distance:	50 to 180 mm
Mounting	for stereo head with diameter from 45 to 77 mm
Power supply	290-240 V ac / 12 V dc (50/60 Hz)
External diameter	120 mm
Model	**LE.1979**

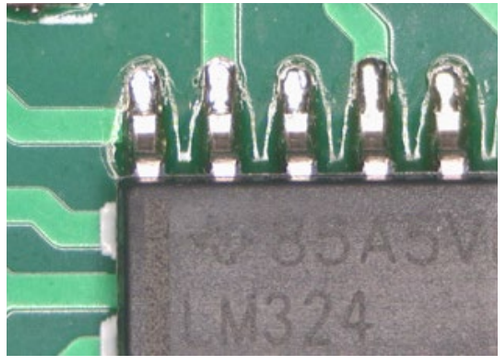


POLARIZING LED RINGLIGHT • LE.1975

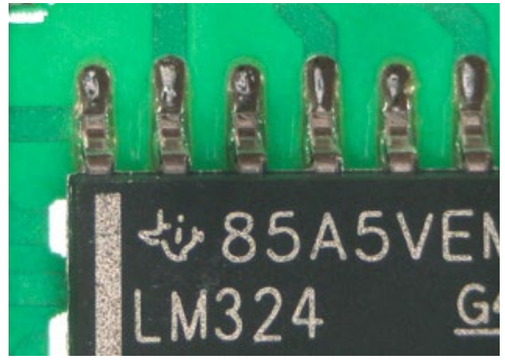
LED ringlight with white or polarized light for all kinds of demanding applications

Ring illumination	16 high power LEDs with adjustable intensity
Color temperature	6,500-7,500 K
Illuminance	≥ 44000 lux at 100 mm distance
working distance:	from 40 to 120 mm
Mounting	for stereo head with diameter from 25 to 61 mm
Power supply	100-240 V ac / 12 V DC
External diameter	90 mm
Model	**LE.1975**





without polarization



with polarization

ILLUMINATION STATION LE.5212

Light source station with multiple power supply connections for two self-sustaining gooseneck-type guides, one ringlight 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 ringlight 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 ringlight	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	•	•

ACCESSORIES AND SPARE PARTS

for LE.5210, LE.5211 and LE.5211-LED cold light sources

FIBER LIGHT CONDUCTORS

LE.5213 Single arm fiber light conductor, gooseneck self-sustaining, 50 cm long, 4 mm diameter

LE.5214 Dual arm fiber light conductor, gooseneck self-sustaining, 50 cm long, 4 mm diameter

LE.5216 Single arm flexible fiber light conductor, 100 cm long, 4 mm diameter

LE.5222 Focusing head for focusing lens LE.5224 or filters LE.5229 and LE.5231 (for fiber light conductors)

LE.5224 Focusing lens. Requires LE.5222 or LE.5228 for mounting on LE.5213 and LE.5214

LE.5228 Focusing head with iris diaphragm (for fiber light conductors)

LE.5231 Conversion KB12/80B filter

HALOGEN BULBS AND FUSES

SL.5219 Halogen 100 W 12 V bulb with reflector (50 hrs nominal), MR16 fits LE.5210

SL.5230 Halogen 100 W 12 V 'Long Life' bulb (1,000 hrs nominal), MR16 fits LE.5210

SL.5235 Halogen 150 W 15 V bulb (50 hrs nominal), MR16 fits LE.5211

SL.5240 Halogen 150 W 15 V 'Long Life' bulb (500 hrs nominal), MR16 fits LE.5211

LE.5263 Interchangeable self-sustaining gooseneck-type guide with a 420 nm high-power Violet-LED for NZ.9018, LE.5207 or LE.5212, 1 pc (D)

LE.5264 Polarization filter, screw on type for Interchangeable self-sustaining gooseneck-type guides for NZ.9018, LE.5207 or LE.5212, 1 pc

WD = working distance

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)



Dual arm fiber light conductor



LE.5212 on a NexiusZoom stand (NZ.9000) with NexiusZoom binocular head (NZ.5302)

PREPARATION ACCESSORIES

Euromex offers the right tools for sample preparing. Before using a microscope good samples are essential to get the most accurate results



product information

dissection instruments

PB.5050 Dissecting needle, straight tip with plastic handle

PB.5054 Dissecting needle, lancet-shaped with plastic handle

PB.5056 Blunt-pointed probe, Ø 2 mm, length 140 mm

PB.5058 Section lifter with wooden handle

PB.5060 Serrated thumb dressing forceps, length 13 mm

PB.5062 Dressing forceps with blunt tips, length 13 cm

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

PB.5067 Dissecting forceps with sharp tips, length 13 cm

PB.5069 Dissecting forceps with finely curved sharp tips, length 13 cm

PB.5077 Cover glass forceps, length 11 cm



SCISSORS AND BLADES

PB.5080 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

PB.5094 Scalpel handle no. 4 (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

PB.5103 Strop, double sided for stropping of scalpels, microtome knives. Includes stropping paste

PB.5105 Razor plano/concave, for sectioning. With plastic handle

PB.5106 Microtome knife plano/concave. With fixed handle, length 17 cm

HANDHELD MICROTOMES

MT.5500 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





PREPARATION ACCESSORIES



product information

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



PB.5110

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



PB.5111

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



PB.5112

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



PB.5114

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)



PB.5115

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



PB.5125

MICROSCOPE PREPARED SLIDES



product information

Euromex offers teachers, students and microscopy amateurs a wide range of quality micro-slides, which can be used immediately in biology classes as introduction to histology, zoology and botany

sets with 25 slides for education

histology, zoology and botany set

PB.5211 FOR EDUCATION

Set with 25 microscopy slides for education: histological samples of mammals, zoology and botany.
All microscope slides are supplied in a plastic box for 25 slides. The set contains:

HISTOLOGY

SH.1011 Hard bone grinding, human, section
SH.1045 Skeletal muscle, dog, l.s and c.s
SH.1072 Skin section through hair follicle, human
SH.1078 Stratified flat epithelium, dog, section
SH.1150 Blood smear, human, Giemsa stained

ZOOLOGY

SZ.1510 Amoeba proteus, w.m
SZ.1580 Hydra with bud, w.m
SZ.1640 Lumbricus - earthworm, c.s
SZ.1655 Daphnia sp., water flea, w.m
SZ.1715 Musca domestica, house fly, mouth parts
SZ.1717 Musca domestica, house fly, leg with clinging pads
SZ.1719 Musca domestica, house fly, wing w.m

BOTANY

SB.2006 Allium cepa, onion, scale epidermis, w.m
SB.2009 Allium cepa, onion, mitosis root tip, l.s
SB.2055 Zea mays, corn, stem, cs
SB.2060 Triticum aestivum, wheat, stem, c.s
SB.2070 Helianthus, sunflower, young stem, c.s
SB.2130 Helianthus, sunflower, leaf, c.s
SB.2205 Monocot/dicot flower, zea mays/ranunculus, c.s
SB.2212 Lilium, lily, ovary, c.s
SB.2335 Mnium, w.m
SB.2355 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.1001 Loose connective tissue, rabbit
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

ZOOLOGY

SZ.1520 Paramecium, w.m
SZ.1625 Schistosoma Japonicum, fluke eggs, bilharziose
SZ.1630 Taenia, tapeworm cattle, mature proglottid, w.m
SZ.1635 Ascaris megalocephala, horse roundworm, female + male, c.s
SZ.1708 Apis mellifica, honey bee, mouth parts
SZ.1725 Periplaneta, cockroach, mouth parts of chewing type
SZ.1730 Pieres brassicae, cabbage-white butterfly, mouth, w.m
SZ.1750 Periplaneta, cockroach, spiracle of insect, w.m

BOTANY

SB.2095 Monocot/dicot stem, zea mays/pumpkin, c.s
SB.2105 Hibiscus, young stem, c.s
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.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.1040 Smooth muscle, teased preparation, rabbit, l.s+c.s
SH.1110 Lung with injected blood vessels, rabbit, c.s
SH.1130 Artery and vein, rabbit, c.s
SH.1410 Nerve, rabbit, c.s and l.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 fly, house mosquito, spider
SZ.1877 Rana sp, frog, blood smear

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

Set with 25 microscopy slides for education: histological samples of mammals, zoology and botany.
All microscope slides are supplied in a plastic box for 25 slides. The set contains:

HISTOLOGY OF MAMMALS

SH.1060 Tendon l.s (Dense connective tissue), dog
SH.1075 Skin section with sweat gland, human
SH.1330 Testis rabbit, c.s
SH.1340 Ovary rabbit with developed eggs
SH.1360 Sperm, human, smear
SH.1490 Retina, rabbit, sec

ZOOLOGY

SZ.1522 Paramecium conjugation w.m
SZ.1524 Paramecium in fission, w.m
SZ.1540 Trachelomonas, a free swimming type euglena
SZ.1585 Hydra with endoderm + ectoderm, c.s
SZ.1710 Apis mellifica - honey bee compound eye, w.m
SZ.1720 Culex pipiens - house mosquito, larva w.m
SZ.1724 Giant chromosomes of salivary gland, w.m
SZ.1810 Mya arenaria, clam gill, c.s
SZ.1860 Lancelet, Section through gonads and gills, c.s

BOTANY

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

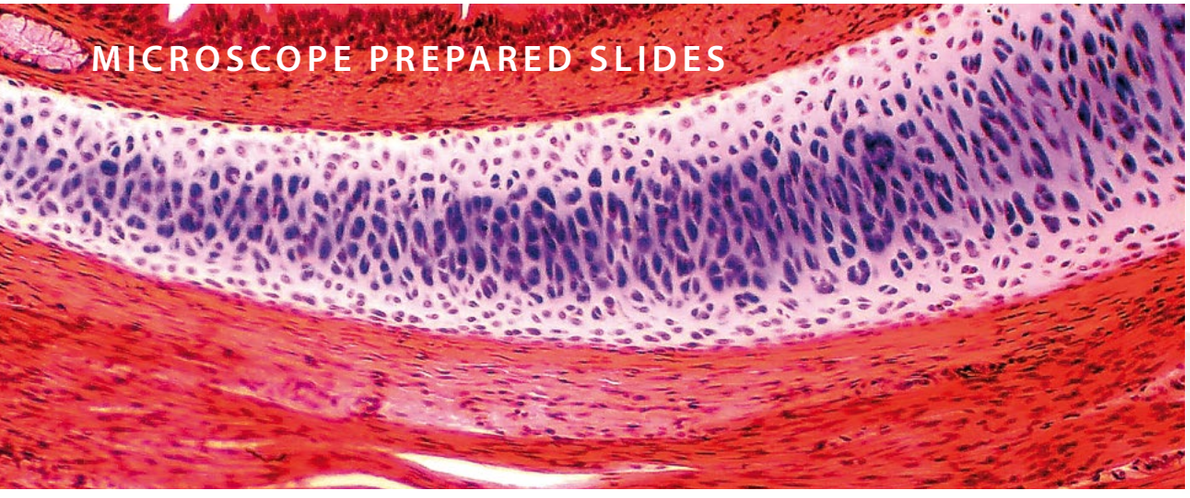
ZOOLOGY

SZ.1610 Planaria, flat worm, injected intestinal tube, w.m
SZ.1636 Ascaris megalocephala, horse roundworm, mitosis eggs
SZ.1760 Ctenocephalus canis, dog flea, w.m
SZ.1770 Tetranychus, red spider mite, w.m
SZ.1930 Bird, wing and down feather, section
SZ.1940 Chicken, embryo 48 hours, sagittal section

BOTANY

SB.2090 Hydrilla verticillata, hydrilla stem tip, l.s
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

USED ABBREVIATIONS	
c.s	cross section
l.s	longitudinal section
w.m	whole mount



MICROSCOPE PREPARED SLIDES



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

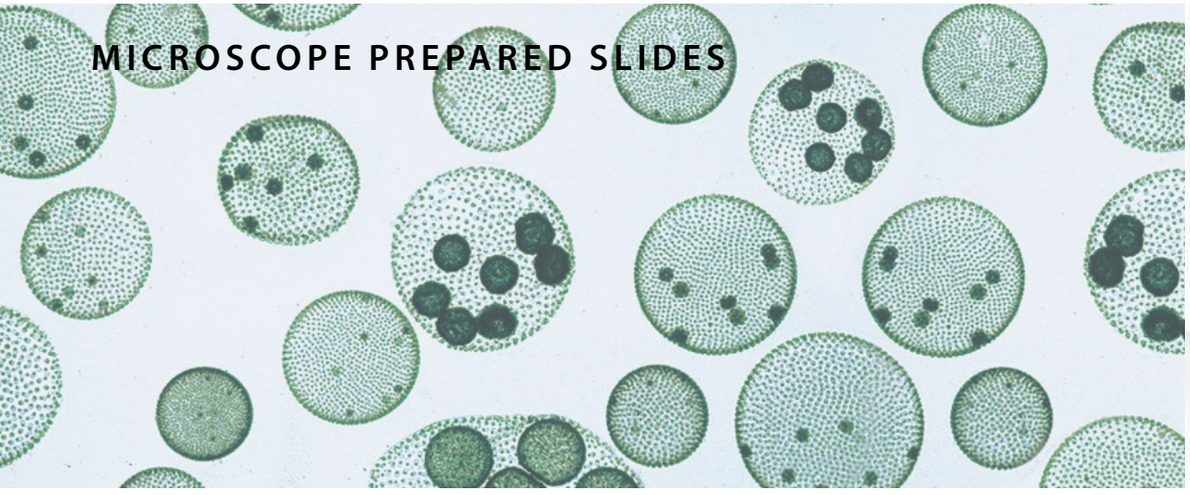
URINARY AND GENITAL SYSTEM

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

MICROSCOPE PREPARED SLIDES





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, l.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
w.m	whole mount

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

MICROSCOPE PREPARED SLIDES

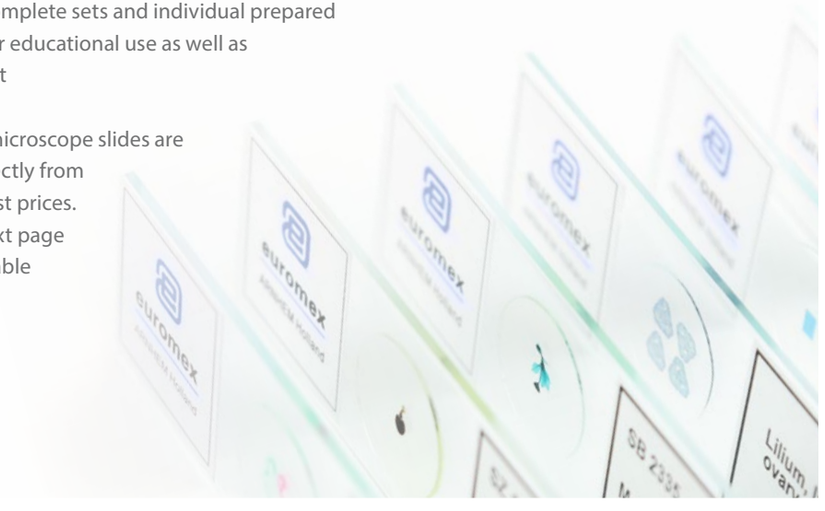


individual euroslides

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, l.s 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.2006 Allium cepa, onion, scale epidermis, w.m
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

STEMS

SB.2055 Zea mays, corn, stem, c.s
SB.2060 Triticum aestivum, wheat, stem, c.s
SB.2070 Helianthus, sunflower, young stem, c.s
SB.2076 Tilia, lime tree, 1, 2 and 3 year stems on one slide, c.s
SB.2095 Monocot/dicot stem, corn/pumpkin, c.s
SB.2100 Pelargonium hortorum, geranium, stem, c.s
SB.2105 Hibiscus, young stem, c.s
SB.2115 Sambucus, elderberry or Morus Alba, mulberry, stem with crok cambium and lenticels, c.s

LEAVES

SB.2130 Helianthus, sunflower, leaf, c.s
SB.2135 Nerium oleander, leaf with sunken stomata, c.s
SB.2140 Triticum, wheat, leaf, c.s
SB.2150 Monocot/dicot leaves, zea mays/ligustrum lucidum, c.s
SB.2160 Lilium, lily leaf, c.s

FLOWERS, FRUITS AND SEEDS

SB.2205 Monocot/dicot flower, zea mays/ranunculus, c.s
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

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 pileus
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



product information

microscope slides

for professional use

Euromex offers Globe Scientific professional microscope slides in three distinct lines, to meet the demands of today's modern laboratories

MICROSCOPE SLIDES

General purpose microscope slides

The economical alternative for less demanding applications

Diamond Essentials microscope slides

Produced from the highest quality soda lime glass and ideal for use in all routine applications. These slides provide excellent quality while offering substantial savings

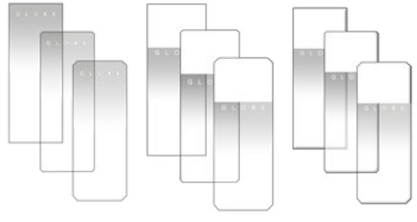
Diamond White Glass microscope slides

Produced from superior quality white glass with exceptional clarity, low self-fluorescence and uniform thickness. The glass is formulated for minimal oxidation, which ensures sample integrity during long-term storage. This top quality line is designed for the most demanding applications and provides considerable savings compared to other name brand white glass slides on the market

Globe Scientific microscope slides are offered in a large selection of Colors, corner styles and edges. All slides are pre-cleaned and ready to use. Globe Scientific can also custom produce microscope slides for your particular needs

CORNER/EDGE TYPES

- Traditional style: 90° ground edge/90° corners. Frosted or plain
- Safety corners: 90° ground edge/slightly clipped corners. Corners are slightly clipped for safety and comfort
- Clipped corners: 45° beveled edge/clipped corners. No sharp edges. Perfect for blood smears



Plain *Frosted* *Frosted and embossed*

GENERAL PURPOSE SLIDES

ITEM	Plain*	Frosted	Ground edge	Safety corners**	Case
1291	•		•	•	1440
1294		one side	•	•	1440

** The plain slides have painted dots in each corner to help alleviate sticking. All slides are pre-cleaned and ready to use*
*** Safety corners: 90° ground edge/slightly clipped corners. Corners are slightly clipped for safety and comfort*

DIAMOND ESSENTIALS

ITEM	90° corners	Safety corners	Clipped corners	Ground edges	Beveled edges	Frosted 1 side	Frosted 2 sides	Color	Case
1301	•			•					1440
1321		•		•					1440
1331			•		•				1440
1304	•			•		•			1440
1324		•		•		•			1440
1334			•		•	•			1440
1308	•			•			•		1440
1328		•		•			•		1440
1338			•		•		•		1440
1304B	•			•		•		Blue	1440
1304G	•			•		•		Green	1440
1304N	•			•		•		Orange	1440
1304P	•			•		•		Pink	1440
1304W	•			•		•		White	1440
1304Y	•			•		•		Yellow	1440
1324B		•		•		•		Blue	1440
1324N		•		•		•		Orange	1440
1324P		•		•		•		Pink	1440
1324W		•		•		•		White	1440
1324Y		•		•		•		Yellow	1440
1334B					•	•		Blue	1440
1334G					•	•		Green	1440
1334P					•	•		Pink	1440
1334W					•	•		White	1440
1334Y					•	•		Yellow	1440

DIAMOND WHITE GLASS

ITEM	Plain	Frosted	Ground edge	Beveled edge	90° corners	Clipped corners	Charged	Color	Case
1380-10	•		•		•				1440
1384-10	•			•		•			1440
1380-20		one side	•		•				1440
1384-20		one side		•		•			1440
1380-30		two sides	•		•				1440
1384-30		two sides		•		•			1440
1380-50B		•	•		•			Blue	1440
1380-50P		•	•		•			Pink	1440
1380-50W		•	•		•			White	1440
1380-50Y		•	•		•			Yellow	1440
1384-50P		•		•		•		Pink	1440
1384-50W		•		•		•		White	1440
1358B		•	•		•		•	Blue	1440
1358G		•	•		•		•	Green	1440
1358P		•	•		•		•	Pink	1440
1358W		•	•		•		•	White	1440
1358Y		•	•		•		•	Yellow	1440
1354W		•		•		•	•	White	1440

COVER GLASSES

Our Cover glass range is produced to meet microscopy and laboratory needs, ensuring precise results in every analysis. Our cover glass protects specimens, minimizes contamination and optimizes optical performance. With premium quality, uniform thickness, exceptional clarity and chemical resistance, our cover glass is versatile for various applications. The cover glass is offered in two thicknesses and various sizes



Cover glasses

KEY FEATURES

- **High quality material**
  Made from chemically-resistant white glass
- **Uniform flatness**
  Ensures consistent sample preparation and examination
- **Aluminum wrapped**
  Prevents sticking, ensuring easy separation
- **2 Thicknesses**
  Available in No. 1 (0.14mm) and No. 1.5 (0.175mm)
- **Recommended use**
  Ideal for manual applications in histology, cytology, urinalysis and microbiology

COVER GLASS

ITEM	Size	Thickness 0.14 mm (nr. 1)	Thickness 0.175 mm (nr. 1.5)	Pcs per box	Per carton
1401-10-200	18 x 18 mm	•		200	1000
1401-15-200	18 x 18 mm		•	200	1000
1402-10-200	20 x 20 mm	•		200	1000
1402-15-200	20 x 20 mm		•	200	1000
1404-10-200	22 x 22 mm	•		200	1000
1404-15-200	22 x 22 mm		•	200	1000
1408-10-100	24 x 32 mm	•		100	1000
1408-15-100	24 x 32 mm		•	100	1000
1415-10-100	24 x 50 mm	•		100	1000
1415-15-100	24 x 50 mm		•	100	1000
1419-10-100	24 x 60 mm	•		100	1000

SLIDE MAILERS

Our range ensures secure transportation and protection for microscope slides. Engineered for durability, our mailers guarantee your specimens arrive intact

RELIABLE PROTECTION

Our mailers safeguard slides from damage, breakage and contaminants during transit, offering peace of mind for analysis or archival purposes

KEY FEATURES

- **Secure Enclosure:** Ensures slides remaining safely enclosed during transportation
- **Shock Absorption:** Minimizes damage risk with sturdy, cushioned interiors
- **Compatibility:** Accommodates standard microscope slide sizes and thicknesses
- **Convenience:** Streamlines packaging and handling with user-friendly designs
- **Versatility:** Offers various configurations to suit specific shipping and storage needs



Slide mailers

Cardboard slide mailers
Cardboard slide mailers feature an inner finger groove for effortless slide removal along with a cover that opens for viewing. The flat surface area is ideal for labeling or writing any necessary information. They are lightweight and reusable to minimize cost. The 20-place cardboard slide holder contains a numerical index that corresponds to the inner slide compartments. The inside flaps are recessed so that there is no contact or contamination between the slides and the cover when closed. With a 360° hinge, the cover folds flat underneath to save space when the holder is in use

Extra sturdy plastic slide mailers
Our plastic slide mailers are produced from polypropylene (PP) and feature a snap-close lid to keep slides secure during transport

Plastic slide mailers with flip top lids
These compact plastic slide mailers are produced from polypropylene (PP) and feature a flip-top lid to keep slides secure during transport. The slim design saves valuable space and features inner slots which keep slides separated

Side opening — for 5 slides
The side opening lid provides easy access to the entire length of the slide

SLIDE STORAGE

Our products ensure the integrity and longevity of your slides. Choose from compact boxes or durable trays to meet your needs

KEY FEATURES

- **Secure storage:**
  Protects slides from damage, dust and contaminants
- **Organization:**
  Various sizes and configurations for efficient workflow
- **Compatibility:**
  Accommodates standard microscope slides
- **Space-efficiency:**
  Maximizes storage space in laboratories

Slide storage boxes

Globe Scientific's microscope slide storage boxes are produced from durable ABS plastic and offer a hinged lid for easy opening and closing. An inventory sheet is affixed to the inside cover for convenient slide identification and organization. The base of the box is cork lined for added protection. Available in four sizes and various colours, these storage boxes accommodate 25 x 75 mm and 1" x 3" microscope slides

Heavy-duty slide storage boxes with stainless steel clasp

These stackable boxes are produced from durable ABS plastic and feature heavy-duty stainless steel clasps and hinged lids for easy opening and closing. An inventory sheet is affixed to the inside cover for convenient slide identification and organization. The base of the box is cork lined for added protection. Available in 6 colours, these storage boxes accommodate 25 x 75 mm microscope slides



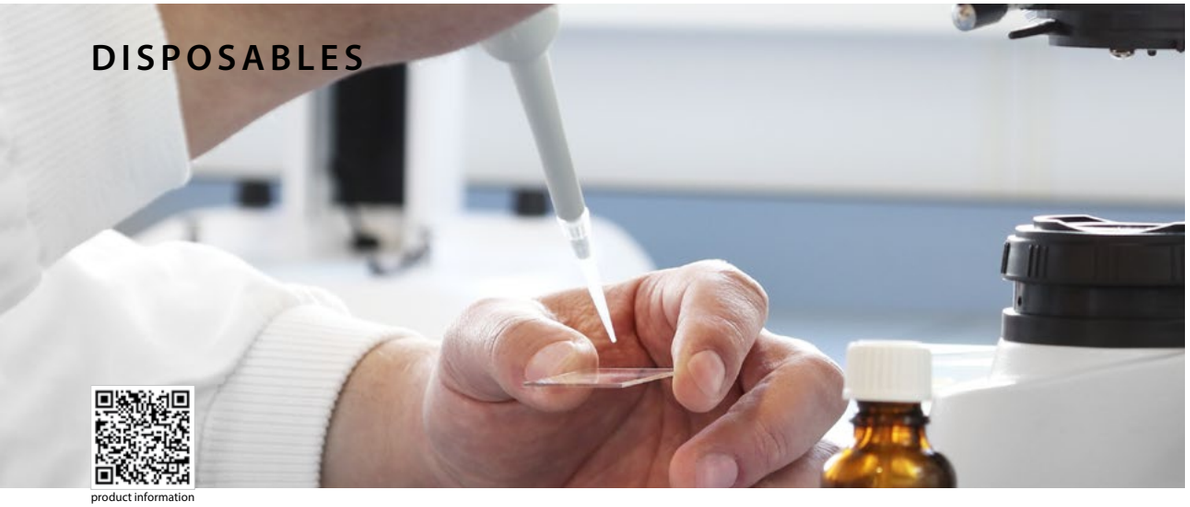


SLIDE MAILERS

ITEM	Material	Specifics	Description	Color	Packaging options
513001	Cardboard		holds 1 slide		100 & 1000
513002	Cardboard		holds 2 slides		100 & 1000
513003	Cardboard		holds 3 slides		50 & 500
513004	Cardboard		holds 4 slides		50 & 200
513025	Cardboard		holds 20 slides		1 & 10
513031	Plastic		holds 1 slide	Natural	100 & 1000
513041	Plastic		holds 2 slides	Natural	100 & 1000
513041B	Plastic		holds 2 slides	Blue	100 & 1000
513045	Plastic		holds 3 slides	natural	100 & 1000
513052	Plastic	with flip top lids	holds 2 slides	Natural	100 & 1000
513052B	Plastic	with flip top lids	holds 2 slides	Blue	100 & 1000
513062	Plastic	with flip top lids	holds 5 slides	Natural	100 & 1000
513062B	Plastic	with flip top lids	holds 5 slides	Blue	100 & 1000
513065	Plastic	Side opening	holds 5 slides	Natural	100 & 1000
513055	Plastic	Side opening	holds 5 slides	Natural	100 & 1000

SLIDE SORAGE

ITEM	Number of slides	With tray	Tray alone	Color	Dimensions (L x W x H)	Case
513029A	20			Grey		Each
513029B	20			Blue		Each
513029G	20			Green		Each
513029Y	20			Yellow		Each
513029W	20			White		Each
513250B	100	•		Blue		Each
513250G	100	•		Green		Each
513250P	100	•		Pink		Each
513250W	100	•		White		Each
513250Y	100	•		Yellow		Each
513252B	100		•	Blue		Each
513252G	100		•	Green		Each
513252P	100		•	Pink		Each
513252W	100		•	White		Each
513252Y	100		•	Yellow		Each
513072A	12			Grey	82 x 51 x 35 mm	1
513072B	12			Blue	82 x 51 x 35 mm	1
513072G	12			Dark grey	82 x 51 x 35 mm	1
513072N	12			Orange	82 x 51 x 35 mm	1
513072W	12			White	82 x 51 x 35 mm	1
513072AST	12			(1 ea. A,B,G,N,W)	82 x 51 x 35 mm	5
513075A	25			Grey	96 x 84 x 35 mm	1
513075B	25			Blue	96 x 84 x 35 mm	1
513075G	25			Dark grey	96 x 84 x 35 mm	1
513075N	25			Orange	96 x 84 x 35 mm	1
513075W	25			White	96 x 84 x 35 mm	1
513075Y	25			(1 ea. A,B,G,N,W)	96 x 84 x 35 mm	5
513077A	50			Grey	203 x 82 x 35 mm	1
513077B	50			Blue	203 x 82 x 35 mm	1
513077G	50			Dark grey	203 x 82 x 35 mm	1
513077N	50			Orange	203 x 82 x 35 mm	1
513077W	50			White	203 x 82 x 35 mm	1
513077AST	50			(1 ea. A,B,G,N,W)	203 x 82 x 35 mm	5
513079A	100			Grey	203 x 165 x 35 mm	1
513079B	100			Blue	203 x 165 x 35 mm	1
513079G	100			Dark grey	203 x 165 x 35 mm	1
513079R	100			Red	203 x 165 x 35 mm	1
513079W	100			White	203 x 165 x 35 mm	1
513079N	100			Orange	203 x 165 x 35 mm	1
513079AST	100			(1 ea. A,B,G,N,W)	203 x 165 x 35 mm	5
513080A	100			Grey	203 x 165 x 35 mm	1
513080B	100			Blue	203 x 165 x 35 mm	1
513080G	100			Dark grey	203 x 165 x 35 mm	1
513080N	100			Orange	203 x 165 x 35 mm	1
513080R	100			Red	203 x 165 x 35 mm	1
513080W	100			White	203 x 165 x 35 mm	1
513080AST	100			(1 ea. A,B,G,N,W)	203 x 165 x 35 mm	5



DISPOSABLES

product information

disposables

Microscope slides for educational use

PB.5150 Microscope slides 76 x 26 mm, clear glass, cut edges. 50 pieces

PB.5155 Microscope slides 76 x 26 mm clear 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. 100 pieces

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



PB.5150



PB.5180



PB.5168 / PB.5170

STAINS

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



product information

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, 16 pieces: cleaning brush, screwdriver set of 6, air blower, 3 Allen keys, 1.5, 2, 2.5 mm, lens cleaning fluid 20 ml, cleaning cloth 140 x 140 mm, 100 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

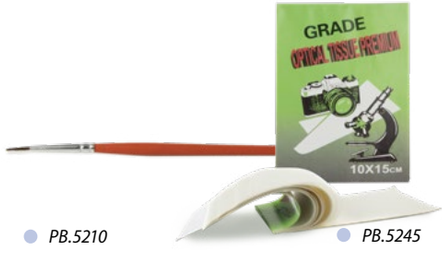
PB.5305 Fuchsine. For staining bacilli in tissue



PB.5276



PB.5286 - PB.5297



PB.5210

PB.5245



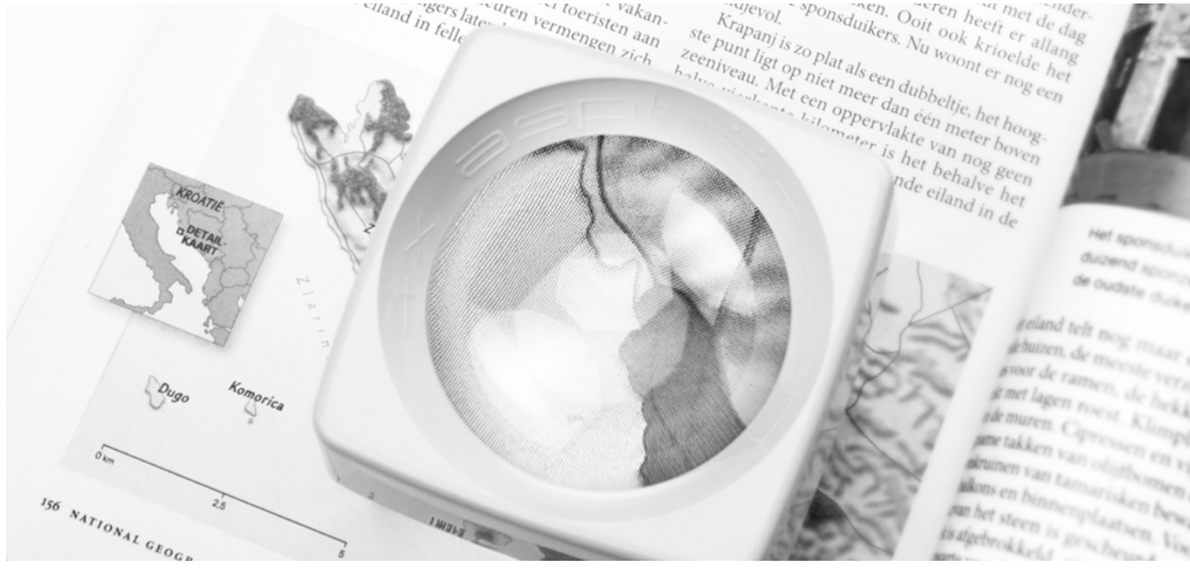
optical instruments

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

other products

optical instruments



product information

MAGNIFIERS &
MEASURING MICROSCOPES • 396
REFRACTOMETERS • 400
POLARIMETERS • 406
SPECTROMETERS • 408

MAGNIFIERS & MEASURING MICROSCOPES

Magnifiers are widely used by biologists, jewelers, watchmakers and philatelists to accurately observe all details of the object



product information

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.5020



PB.5022

FOLDING MAGNIFIERS

PB.5016 Aplanatic magnifier 6x, doublet. Lens Ø 20 mm. Field of view 25 mm

PB.5018 Aplanatic magnifier 15x, doublet. Lens Ø 18 mm. Field of view 14 mm

PB.5032 Achromatic magnifier 10x, triplet. Lens Ø 20 mm. Field of view 15 mm

PB.5033 Achromatic magnifier 20x, triplet. Lens Ø 20 mm. Field of view 8 mm

PB.5036 Aplanatic magnifier 10x, doublet. Lens Ø 20 mm. Field of view 20 mm

PB.5037 Achromatic diamond magnifier 10x with four lenses Ø 21 mm. Field of view 25 mm



PB.5032



PB.5016

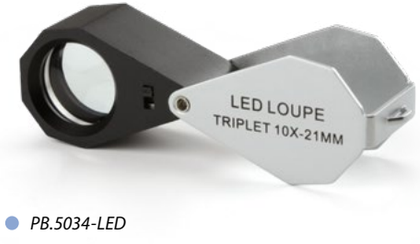
FOLDING MAGNIFIERS WHITE LED ILLUMINATION

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.5034-LED

FOLDING MAGNIFIERS WHITE LED AND UV ILLUMINATION

PB.5034-LUV Achromatic magnifier 10x triplet. Lens Ø 21 mm. White LED and UV illumination

PB.5018-LUV Achromatic magnifier 15x triplet. Lens Ø 21mm. White LED and UV illumination

PB.5033-LUV Achromatic magnifier 20x, triplet. Lens Ø 21 mm. White LED and UV illumination

PB.5035-LUV Achromatic magnifier 30x triplet. Lens Ø 21 mm. White LED and UV illumination



PB.5034-LUV

MAGNIFIERS & MEASURING MICROSCOPES

Measuring microscopes are built with a microscope objective for magnifications from 20 to 100x times



magnifiers & measuring microscopes

TABLE MAGNIFIERS

PB.5039 Table magnifier, 15x magnification.
Glass achromatic lens Ø 19 mm, field of view 15 mm

PB.5041 Table magnifier, 10x magnification.
Glass lens Ø 26 mm, field of view 25 mm

PB.5040 Table magnifier, 8x magnification.
Plastic lens Ø 23 mm, field of view 30 mm.
10mm/100 reticle



PB.5039 / PB.5041



PB.5040

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.5030



PB.5049

MEASURING MAGNIFIERS WITH RETICLE

PB.5044 Measuring magnifier 7x.
Eyepiece Ø 18 mm. Field of view 24 mm.
Measuring scale 10-0-10 mm divided into
0.1 mm and crosshairs

PB.5045 Measuring magnifier 7x.
Eyepiece Ø 18 mm. Field of view 24 mm.
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.5047 Measuring magnifier 10x.
Eyepiece Ø 25 mm. Field of view 30 mm.
Measuring scale 15-0-15 mm with 0.1, 0.2 and
0.5 mm graduations. White LED-illumination

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



PB.5046



PB.5047



PB.5044



PB.5008



PB.5045



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



refractometers

REFRACTOMETERS • PAGE 402
ABBE REFRACTOMETER • PAGE 405



REFRACTOMETERS

The Euromex refractometers are ideal for determining concentrations, testing and measuring of fluids

Analog refractometer

Digital refractometer

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

Application	Art no	Range		Accuracy	Remarks	ATC	Handheld model	Table model	Analog	Digital
Concentrations of sugar in marmalades, fruits, syrups, wine and monitoring of oil emulsions	RF.6190	0-90	Brix	0.2	3 scales: 0-42 / 42-71 / 71-90 Brix		•		•	
	RF.6510	0 - 10	Brix	0.1		•	•		•	
	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	°Oe Brix °KMW % CNM	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	°Oe Brix °KMW %	1 0.1 0.1 0.1		•	•			•
	RD.6645	0 - 45 1.33 - 1.41	Brix R.I.	0.1 0.0003		•	•			•
	RD.6666	0 - 80 1.33 - 1.51	Brix R.I.	0.5 0.0005		•	•			•
	RD.6667	58 - 92 1.43 - 1.52	Brix R.I.	0.2 0.0003		•	•			•
Honey	RF.6642	13 - 25	%	0.1	Honey moisture	•	•		•	
	RF.6644	58 - 92 38 - 43 12 - 27	Brix °Be %	0.5 0.5 1	 Water	•	•		•	
Concentration of sugar/alcohol %	RF.6627	0 - 25 0 - 40 0 - 20	% Brix Baume	0.2 0.2 0.2	% volume	•	•		•	
Salinity and concentration of sugar	RF.6610	0 - 100 0 - 10 1.00 - 1.07	‰ Brix R.I.	1 0.1 0.005		•	•		•	
	RF.6628	0 - 28	%	0.2		•	•		•	
	RD.6728	0 - 28 0 - 45 1.33 - 1.41	% Brix R.I.	0.1 0.1 0.0003	% NaCl Only for sugar/salt	•	•			•
Clinical applications Proteins	RF.6612	0 - 12 1.00 - 1.05 1.333 - 1.360	g/dl sg R.I	0.2 0.002 0.0003	Proteins in serum Urine specific gravity	•	•		•	
	RF.6614	2 - 14 1.00 - 1.06 1.00 - 1.06	g/dl sg sg	0.1 0.001 0.001	Proteins in serum Urine specific gravity (dog) Urine specific gravity (cat)	•	•		•	

Application	Art no	Range		Accuracy	Remarks	ATC	Handheld model	Table model	Analog	Digital
	RD.6712	0 - 12 1.00 - 1.05 1.33 - 1.39	g/dl sg R.I.	0.1 0.001 0.0001	Proteins in serum Urine specific gravity	•	•			•
	RD.6714	0 - 14 0 - 14 1.00 - 1.06 1.00 - 1.06 1.33 - 1.39	g/dl g/dl sg sg 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)	•	•			•
Battery Acid/Coolant	RF.6650	1.10 - 1.40 -50 / 0 -50 / 0 -40 / 0	sg °C °C °C	0.01 5 5 10	Battery fluids Ethylene glycol G13 Propylene glycol G11/12 windshield washer fluid	•	•		•	
	RD.6730	1.0 - 1.50 -50 / 0 -50 / 0 -40 / 0	sg °C °C °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

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)

Digital refractometer





RF.6381



98.490

Abbe laboratory
refractometer
substance identification

The Abbe laboratory refractometer is a bench-top instrument for high-precision measurements of an index of refraction and suitable for determination of the refractive index of solid samples, such as glass, plastics and polymer films

The instrument is supplied with a thermometer and water connection to control fluid temperatures. Also equipped with a Brix and a refraction index scale and supplied with a test plate

Capable of measuring all kinds of concentrations and identifying several types of substances

The Abbe refractometer can be connected to a water bath for measuring at a controlled temperature. During the use of this type of refractometer the use of a cold light source such as the LE.5209 is recommended.
This Abbe table refractometer has scales for measurement of sugar concentrations and refractive indices. Delivered with carrying case, digital thermometer, calibration plate, adjusting tool and with 0.5 ml calibration liquid



product information

Substance identification of sugar concentration

MODEL	Range	Accuracy	Remarks	Analog
98.490	0-95 Brix	0.1	Abbe table refractometer without light source	•
	1.300-1.700 RI	0.0002		

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



product information

polarimeter

99.400-LED

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

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

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



ACCESSORIES FOR 99.400

99.410	Measuring tube, 100 mm long
99.415	Measuring tube, 200 mm long
99.430	Cover glass for measuring tube Ø 15 mm
99.431	Rubber ring (for 99.430)
99.197	Spare sodium 589.3 nm lamp

MODEL	Scales	Accuracy	Observation tubes 100 and 200 mm	230 V sodium lamp with 589.3 nm filter	230 V High power LED with 589.3 nm filter
99.400	± 180 °	± 0.1 ° polar scale	•	•	
99.400-LED	± 180 °	± 0.1 ° polar scale	•		•

SPECTROSCOPES

Euromex handheld spectroscopes are used for optical experiments in natural sciences, industry and education



product information

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



SP.5200

- **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**



SP.5155

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**



SP.5150

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

microscope selector

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, BlueScope, 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 *, 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, BlueScope, 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***, BioBlue***, AP series, EduBlue, StereoBlue
• geology, petrology	Identification by means of petrographic microscope	EcoBlue***, BioBlue***, AP series, EduBlue, StereoBlue
• mechanics	Manufacturing and quality inspection of mechanical parts	bScope *, EduBlue, StereoBlue, NexiusZoom, MacroZoom
• microbiology	Study of microscopic uni-, multi- or acellular small organisms such as protozoa, algae, bacteria and more. Identification and classification	MicroBlue, EcoBlue, BioBlue, BlueScope, bScope
• mycology	Study of fungi as branch of biology. Identification and classification	MicroBlue, EcoBlue, BioBlue, BlueScope, 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***, BioBlue***, AP series, EduBlue, StereoBlue
• zoology	Animal biology. Study of invertebrates and vertebrates and related branches	MicroBlue, EcoBlue, BioBlue, BlueScope, 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	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, MacroZoom
• anatomopathology	Diagnosis of diseases of organs or tissues. Cytopathology and forensic pathology	BioBlue.Lab, bScope, iScope, Delphi-X Observer, NexiusZoom, DZ series, UltraZoom
• asbestos control	Research of asbestos fibers, environmental protection during restoration of older buildings	iScope (asbestos and polarization), NexiusZoom, DZ series, UltraZoom, Z series
• bacteriology	Study of bacteria as subdivision of microbiology. Identification, classification	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, Delphi-X Observer
• biochemistry	Study of chemical processes within living organism. Identification and classification of enzymes and structure of biomolecules	BioBlue.Lab, bScope, iScope, Achios-X Observer, Delphi-X Observer
• biomedical	Study of medical microbiology, virology, epidemiology, biomedical engineering	BioBlue.Lab, iScope, Achios-X Observer, 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, Achios-X Observer, Delphi-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom
• botany	Study of plants as branch of biology. Plant anatomy and morphology. Plant genetics and ecology. Plant biochemistry	BlueScope, BioBlue.Lab, bScope, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• cell culture	Controlled growing of cells and tissues, fungal culture and microbiological culture	Delphi-X Inverso, Achios-X Observer, Oxion Inverso, NexiusZoom, DZ series, UltraZoom
• chemistry	Study of the composition and properties of chemicals	BioBlue.Lab, iScope */***, Achios-X Observer*, bScope *, NexiusZoom, DZ series, UltraZoom
• cosmetics	Research, development and testing (safety) of substances for make-up or perfume	iScope *, bScope *, NexiusZoom, DZ series
• cytology	Study of cell structure, function and chemistry. Detection of cellular diseases	BioBlue.Lab, iScope, Achios-X Observer, Delphi-X Observer
• dermatology	Study and diagnosis, treatment of skin, nails and hair diseases	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, NexiusZoom, StereoBlue, DZ series, UltraZoom, 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 *, Achios-X Observer*, bScope *, StereoBlue, NexiusZoom, DZ series, Z series, UltraZoom, MacroZoom
• embryo collection	Embryo collection and transfer in mares, pigs, cows. Quality control	NexiusZoom, DZ series, Z series

* materials models, ** fluorescence models, *** polarization models

UNIVERSITY LABS	FIELD OF APPLICATION	RECOMMENDED MODELS
• embryology	Study of gametes, embryos and foetuses	BioBlue.Lab, iScope, StereoBlue, NexiusZoom, DZ series, UltraZoom
• entomology	Study of insects as branch of zoology. Identification and classification of beetles, flies, termites, moths and butterflies, bees, ants, wasps	BlueScope, BioBlue.Lab, bScope, iScope, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• environmental	Monitoring of environmental conditions such as water, atmosphere, ecosystems, soil and pollution	BioBlue.Lab, bScope, iScope, StereoBlue, NexiusZoom, DZ series, UltraZoom
• fluorescence	Study of living and non-living materials with the help of fluorescence markers (fluorochromes)	iScope **, Achios-X Observer**, Delphi-X Observer**, Oxion Inverso**, bScope **, DZ series**, UltraZoom**
• food and beverages	Quality and safety controls, before, during and after the production of food and beverages	BioBlue.Lab, bScope, iScope
• forensics	Analysis of scientific evidence. Toxicology, fingerprints, Forensic anthropology and archeology, forensic botany and entomology	BioBlue.Lab, iScope, iScope */ ***, Achios-X Observer, Achios-X Observer**, Achios-X Inverso, Oxion Inverso, Oxion Inverso*, NexiusZoom, DZ series, UltraZoom, Z series
• genetics	Study of genes, heredity in living organisms including bacteria, plants, animals and humans	iScope, Achios-X Observer, Delphi-X Observer, DZ series, UltraZoom
• geology, mineralogy	Earth Science; Study of solids, rocks and processes. Identification and classification of rocks and minerals	iScope *, bScope *, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• geology, petrology	Identification by means of petrographic microscopy	iScope ***, Delphi-X Observer***, StereoBlue, NexiusZoom, DZ series, UltraZoom
• glass industry	Quality control, before, during and after the production of glass and coatings	iScope *, Achios-X Observer*, Oxion Inverso*, bScope *, StereoBlue, NexiusZoom, DZ series, UltraZoom
• hematology	Study and diagnosis, treatment and prevention of diseases of the blood	iScope, Achios-X Observer, bScope (darkfield), iScope (darkfield), Oxion (darkfield)
• histopathology	Microscopic examination of tissue, diagnosis of diseases	iScope, Achios-X Observer, Delphi-X Observer
• horticulture	Selective breeding of plants and fruit for production of food	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• in vitro fertilization	In vitro fertilization IFV. Quality control of collected egg and sperm	StereoBlue, NexiusZoom, DZ series, UltraZoom, Z series
• marine biology	Study of organisms living in the ocean or seas as branch of biology	BlueScope, bScope, BioBlue.Lab, iScope, Achios-X Observer,
• mechanics	Manufacturing and quality inspection of mechanical parts	Delphi-X Observer*, Achios-X Observer*, iScope *, Achios-X Inverso*, Oxion Inverso*, bScope *, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• metallurgy	Manufacturing and quality inspection of metallic elements, intermetallic compounds and alloys	Delphi-X Observer*, Achios-X Observer*, iScope *, bScope *, bScope large samples, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• microbiology	Study of microscopic uni-, multi- or acellular small organisms such as protozoa, algae, bacteria and more	iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom
• mycology	Study of fungi as branch of biology	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom

UNIVERSITY LABS	FIELD OF APPLICATION	RECOMMENDED MODELS
• mining	Extraction of minerals for identification, quantitative and qualitative evaluation of minerals	Achios-X Observer*, iScope * (polarization), Oxion Inverso*, bScope *, bScope large samples, StereoBLue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• neuropathology	Study and diagnosis of diseases in nervous system tissue	Delphi-X Observer, Achios-X Observer, iScope, StereoBlue, NexiusZoom, DZ series, UltraZoom
• oncology	Study and diagnosis, treatment and prevention of cancers	Delphi-X Observer, Achios-X Observer, iScope
• ornithology	Study of birds as branch of zoology. Diagnosis of diseases in birds such as competition pigeons	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom
• paleontology	Study of fossils in order to determinate organisms evolution	Achios-X Observer*, iScope *, bScope *, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• paper industry	Production of paper related products. Quality inspection	Achios-X Observer*, iScope *, bScope *, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• parasitology	Study of parasites, medical and veterinary	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• pathology	Study and diagnosis of diseases	Delphi-X Observer, Achios-X Observer, iScope
• petrochemical	Research and transformation of crude oil and natural gas	Achios-X Observer*, iScope *, bScope *, StereoBlue, NexiusZoom, DZ series
• petrology	Study of the composition and structure of rocks as branch of geology. Identification by means of polarization	iScope ***, StereoBlue, NexiusZoom, DZ series, UltraZoom
• pharmaceutics	Development and production of drugs for medication. Quality assurance and inspection of produced products	Delphi-X Observer*/**, Achios-X Observer*/**, iScope ***, StereoBlue, NexiusZoom, DZ series, UltraZoom
• phytopathology	Study and diagnosis of plant diseases	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom
• plastics	Development and production of plastics and plastic based compounds. Quality assurance and inspection	Achios-X Observer*, iScope *, Oxion Inverso*, bScope *, StereoBlue, NexiusZoom, DZ series, UltraZoom
• textile	Development and production of all kinds of textile based products. Quality assurance and inspection	Achios-X Observer*, iScope *, bScope *, AP series, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• veterinary medicine	Prevention, diagnosis and treatment of diseases, injuries in animals	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, Achios-X Inverso, Oxion Inverso, StereoBlue, NexiusZoom, DZ series, UltraZoom
• virology	Study and diagnosis of viruses and virus-like agents	Delphi-X Observer, Achios-X Observer, iScope, BioBlue.Lab, bScope
• water treatment	Production of drinking water and wastewater treatment. Quality control and disease prevention	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer
• wood production	Wood production for construction material, fuel. Quality control	Achios-X Observer*, iScope*, Oxion Inverso*, bScope *, bScope large samples, AP series, Stereo-Blue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• zoology	Animal biology. Study of invertebrates and vertebrates and related branches	BioBlue.Lab, bScope, iScope, StereoBlue, NexiusZoom, DZ series, UltraZoom

* materials models, ** fluorescence models, *** polarization models

LIFE SCIENCE LABORATORIES	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	BlueScope, BioBlue.Lab, bScope, bScope large samples, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• **anatomopathology**	Diagnosis of diseases of organs or tissues. Cytopathology and forensic pathology	Delphi-X Observer, Achios-X Observer, iScope, bScope, BioBlue.Lab, StereoBlue, NexiusZoom, DZ series, UltraZoom
• **bacteriology**	Study of bacteria as subdivision of microbiology. Identification, classification	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, 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, Achios-X Observer
• **biomedical**	Study of medical microbiology, virology, epidemiology, biomedical engineering	Delphi-X Observer, Achios-X Observer, iScope, bScope, BioBlue.Lab
• **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, Achios-X Observer, iScope, bScope, BioBlue.Lab, NexiusZoom, DZ series, UltraZoom, MacroZoom
• **botany**	Study of plants as branch of biology. Plant anatomy and morphology. Plant genetics and ecology. Plant biochemistry	BlueScope, BioBlue.Lab, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom
• **cell culture**	Controlled growth of cells and tissues, fungal culture and microbiological culture	Delphi-X Inverso, Oxion Inverso, NexiusZoom, DZ series, UltraZoom
• **chemistry**	Study of the composition and properties of chemicals	iScope ***, bScope *, NexiusZoom, DZ series, UltraZoom
• **cosmetics**	Research, development and testing (safety) of substances for make-up or perfume	bScope *, iScope *, Achios-X Observer, NexiusZoom, DZ series, UltraZoom
• **cytology**	Study of cell structure, function an chemistry. Detection of cellular diseases	Delphi-X Observer, Achios-X Observer, iScope, bScope, BioBlue.Lab
• **dermatology**	Study and diagnosis, treatment of skin, nails and hair diseases	Achios-X Observer, iScope, BioBlue.Lab, NexiusZoom, StereoBlue, DZ series, UltraZoom, 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, Achios-X Observer, NexiusZoom, DZ series, UltraZoom, Z series
• **entomology**	Study of insects as branch of zoology. Identification and classification of beetles, flies, termites, moths and butterflies, bees, ants, wasps	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• **environmental**	Monitoring of environmental conditions such as water, atmosphere, ecosystems, soil and pollution	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom
• **fluorescence**	Study of living and non-living material with the help of fluorescence markers (fluorochromes)	Delphi-X Observer**, Achios-X Observer,** iScope **, Oxion Inverso**, bScope **, DZ series**, UltraZoom**
• **forensics**	Analysis of scientific evidence. Toxicology, fingerprints, Forensic anthropology and archeology, forensic botany and entomology	BioBlue.Lab, bScope, bScope large samples, iScope, Achios-X Observer, Delphi-X Observer, Achios-X Inverso**, Oxion Inverso, NexiusZoom, DZ series, UltraZoom, Z series

LIFE SCIENCE LABORATORIES	FIELD OF APPLICATION	RECOMMENDED MODELS
• **food and beverages**	Quality and safety controls, before, during and after the production of food and beverages	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer
• **genetics**	Study of genes, heredity in living organism including bacteria, plants, animals and humans	Delphi-X Observer, Achios-X Observer, iScope, DZ series, UltraZoom
• **hematology**	Study and diagnosis, treatment and prevention of diseases of the blood	Delphi-X Observer, Achios-X Observer, iScope, bScope (dark filed), iScope (darkfield), iScope,
• **histopathology**	Microscopic examination of tissue, diagnosis of diseases	Delphi-X Observer, Achios-X Observer, iScope
• **horticulture**	Selective breeding of plants and fruit for production of food	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• **in vitro fertilization**	In vitro fertilization IVF. Quality control of collected egg and sperm	DZ series, UltraZoom
• **marine miology**	Study of organisms living in the ocean or seas as branch of biology	BioBlue.Lab, BlueScope, iScope, Achios-X Observer, NexiusZoom, DZ series, UltraZoom
• **microbiology**	Study of microscopic uni-, multi- or acellular small organisms such as protozoa, algae, bacteria and more. Identification and classification	Delphi-X Observer, Achios-X Observer, iScope, NexiusZoom, DZ series, UltraZoom
• **mycology**	Study of fungi as branch of biology. Identification and classification	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom
• **neuropathology**	Study and diagnosis of diseases in nervous system tissue	Delphi-X Observer, Achios-X Observer, iScope, NexiusZoom, DZ series, UltraZoom
• **oncology**	Study and diagnosis, treatment and prevention of cancers	Delphi-X Observer, Achios-X Observer, iScope
• **parasitology**	Study of parasites, medical and veterinary	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom
• **pathology**	Study and diagnosis of diseases	Delphi-X Observer, Achios-X Observer, iScope
• **pharmaceutics**	Development and production of drugs for medication. Quality assurance and inspection of produced products	iScope ***, StereoBlue, NexiusZoom, DZ series, UltraZoom
• **phytopathology**	Study and diagnosis of plant diseases	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• **veterinary medicine**	Prevention, diagnosis and treatment of diseases, injuries on animals	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, Oxion Inverso, StereoBlue, NexiusZoom, DZ series, UltraZoom
• **virology**	Study and diagnosis of viruses and virus-such as agents	Delphi-X Observer, Achios-X Observer, BioBlue. Lab, iScope, bScope, BioBlue.Lab
• **water treatment**	Production of drinking water and wastewater treatment. Quality control and disease prevention	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer
• **zoology**	Animal biology. Study of invertebrates and vertebrates and related branches	BlueScope, BioBlue.Lab, bScope, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom

** fluorescence models *** polarization models

INDUSTRY	FIELD OF APPLICATION	RECOMMENDED MODELS
• aerospace	Manufacturing and quality inspection of rockets and space vehicles related parts	Delphi-X Observer, Achios-X Observer, bScope large samples, iScope, 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	bScope, bScope large samples, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• asbestos control	Research of asbestos fibers, environmental protection during restoration of older buildings	iScope, NexiusZoom, DZ series, UltraZoom, Z series
• automotive	Manufacturing and quality inspection of automotive related parts	Achios-X Observer, iScope, Achios-X Inverso, Oxion Inverso, NexiusZoom, DZ series, UltraZoom, Z series
• avionics	Manufacturing and quality inspection of aircraft related parts	Delphi-X Observer, Achios-X Observer, bScope large samples, iScope, NexiusZoom, DZ series, UltraZoom
• biochemistry	Study of chemical processes within living organism. Identification and classification of enzymes and structure of biomolecules	iScope, NexiusZoom, DZ series, UltraZoom
• chemistry	Study of the composition and properties of chemicals	Achios-X Observer, iScope
• cosmetics	Research, development and testing (safety) of substances for make-up or perfume	bScope, iScope, Achios-X Observer, NexiusZoom, DZ series, UltraZoom
• 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, Achios-X Observer, NexiusZoom, DZ series, UltraZoom, Z series, BE-18 LED, MacroZoom
• environmental	Monitoring of environmental conditions such as water, atmosphere, ecosystems, soil and pollution	BioBlue.Lab, bScope, iScope, Achios-X Observer, 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, Achios-X Observer
• forensics	Analysis of scientific evidence. Toxicology, fingerprints, Forensic anthropology and archeology, forensic botany and entomology	BioBlue.Lab, bScope, bScope large samples, iScope, Achios-X Observer, Oxion Inverso, Oxion Inverso, Achios-X Inverso, NexiusZoom, DZ series, UltraZoom, Z series
• geology, mineralogy	Earth science, studying the solid, rocks and processes. Identification and classification of rocks and minerals	Achios-X Observer, bScope large samples, iScope, Oxion Inverso, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• geology, petrology	Identification by means of a petrographic microscope	iScope (polarization)
• glass industry	Quality control, before, during and after the production of glass and coatings	Achios-X Observer, iScope, Achios-X Inverso, Oxion Inverso, bScope, StereoBlue, NexiusZoom, DZ series, UltraZoom
• horticulture	Selective breeding of plants and fruit for production of food	BioBlue.Lab, bScope, iScope, Achios-X Observer, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom

INDUSTRY	FIELD OF APPLICATION	RECOMMENDED MODELS
• jewelry	Precise manufacturing of very small decorative items such as brooches, rings, bracelets and more	BE-18 LED series, StereoBlue, NexiusZoom, DZ series, Z series
• mechanics	Manufacturing and quality inspection of mechanical parts	Achios-X Observer, iScope, Achios-X Inverso, Oxion Inverso, bScope, bScope large samples, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• metallurgy	Manufacturing and quality inspection of metallic elements, intermetallic compounds and alloys	Achios-X Observer, iScope, Achios-X Inverso, Oxion Inverso, bScope, bScope large samples, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• mining	Extraction of minerals Identification, quantitative and qualitative evaluation of minerals	iScope (polarization), Achios-X Inverso, Oxion Inverso, bScope, StereoBlue, NexiusZoom, DZ series, UltraZoom
• paper industry	Production of paper related products. Quality inspection	Achios-X Observer, iScope, bScope, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• petrochemical	Research and transformation of crude oil and natural gas	Achios-X Observer, iScope, bScope, StereoBlue, NexiusZoom, DZ series, UltraZoom
• 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, UltraZoom
• pharmaceutics	Development and production of drugs for medication. Quality assurance and inspection of produced products	Achios-X Observer, iScope, StereoBlue, NexiusZoom, DZ series, UltraZoom
• plastics	Development and production of plastics and plastic based compounds. Quality assurance and inspection	Achios-X Observer, iScope, Achios-X Inverso, Oxion Inverso, bScope, StereoBlue, NexiusZoom, DZ series, UltraZoom
• printing industry	Production of relief printing, lithography	Achios-X Observer, iScope, bScope , AP series, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• textile	Development and production of all kinds of textile based products. Quality assurance and inspection	Achios-X Observer, iScope, Achios-X Inverso, Oxion Inverso, AP series, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom
• water treatment	Production of drinking water and wastewater treatment. Quality control and disease prevention	BioBlue.Lab, bScope, iScope, Achios-X Observer,
• wood production	Wood production for construction material, fuel. Quality control	Achios-X Observer, bScope large samples, iScope, Achios-X Inverso, Oxion Inverso, AP series, StereoBlue, NexiusZoom, DZ series, UltraZoom, MacroZoom

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