



# CATALOG 2018

MICROSCOPES  
FOR EDUCATION

PART 1

 **euromex**  
microscopes holland

PART 1 MICROSCOPES FOR EDUCATION

PART 2 MICROSCOPES FOR LABORATORIES

PART 3 MICROSCOPES FOR INDUSTRY



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

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

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

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

The broad product offering of Euromex can be found in this grand catalog and online at **[www.euromex.com](http://www.euromex.com)**

**Physix Photonics bv** is also a subsidiary of the Euromex Optics Group. Physix manufactures optical components and optical assemblies for OEM customers. The offering varies from plan optics, curved optics, specials optics to optical coatings.

Detailed information about Physix Photonics can be found on **[www.physix.com](http://www.physix.com)**

## Choose the right microscope

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

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# Biological

## Education



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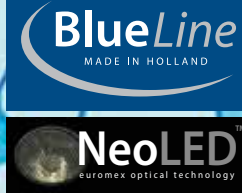


# Biological Education

The Euromex biological BlueLine educational product range is an outcome of many years of experience in teaching microscopy 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 students for beginner, intermediate and advanced science teaching classes

# BIOLOGICAL MICROSCOPES



Monocular model MB.1001 ●



## MicroBlue

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

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

MONOCULAR MODEL MB.1001	
<b>Dimensions</b>	<b>Weight</b>
(h) 298 x (w) 151 x (d) 202 mm	2.0 kg
MONOCULAR MODEL WITH MECHANICAL STAGE MB.1151	
<b>Dimensions</b>	<b>Weight</b>
(h) 298 x (w) 151 x (d) 202 mm	2.2 kg
BINOCULAR MODEL WITH MECHANICAL STAGE MB.1152	
<b>Dimensions</b>	<b>Weight</b>
(h) 298 x (w) 151 x (d) 202 mm	2.8 kg



● Binocular model MB.1152

## 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 with 45° inclined tubes. Binocular models have 45° inclined tubes, adjustable interpupillary distance between 48 and 75 mm and a ± 5 diopter adjustment on left tube. All heads are 360° rotatable

### NOSEPIECE

Revolving nosepiece for three or four reversed objectives on ball bearings

### OBJECTIVES

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

## HIGHLIGHTS

- Entry-level microscopes
- Monocular and binocular models
- Revolving reversed nosepiece
- Integrated X-Y mechanical stage
- LED and NeoLED™ illumination
- Cordless operation
- Ergonomic carrying grip
- 5 years warranty

### FOCUSING

Coaxial coarse and fine adjustments, 200 graduations, 15 µm per graduation, 3 mm per rotation, total travel range is approximately 15 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control

### STAGE

All models are supplied with 115 x 100 mm stage with integrated 55 x 20 mm X-Y mechanical stage, except for the basic model MB.1001 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 model that is equipped with a single N.A. 0.65 condenser with built-in iris diaphragm

## ILLUMINATION

All monocular versions are supplied with adjustable 1W LED illumination system. The binocular versions are supplied with a replaceable 1 W NeoLED™ illumination system for increased light output

All models have internal rechargeable batteries with an external 100-240 V battery charger/mains adapter

## PACKAGE CONTENT

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



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

## ACCESSORIES AND SPARE PARTS

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

**MB.6010** Wide field WF 10x/18 mm eyepiece with pointer

**MB.6015** Wide field WF 15x/11 mm eyepiece

**MB.6020** Wide field WF 20x/9 mm eyepiece

**MB.6010-M** Wide field WF 10x/18 mm eyepiece with micrometer

**MB.6099** Pair of eyecups

**MB.7004** Achromatic 4x/0.10 objective, 35 mm parfocal

**MB.7010** Achromatic 10x/0.25 objective, 35 mm parfocal

**MB.7020** Achromatic 20x/0.40 objective, 35 mm parfocal

**MB.7040** Achromatic S40x/0.65 objective, 35 mm parfocal

**MB.7060** Achromatic S60x/0.85 objective, 35 mm parfocal

**MB.7000** Achromatic S100x/1.25 objective, 35 mm parfocal

**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

**AE.9918** Nylon microscope bag (25 x 39 x 19 cm)

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

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

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

**PB.5245** Lens cleaning paper, 100 sheets per pack

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

**PB.5274** Isopropyl alcohol 99% (200 ml)

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

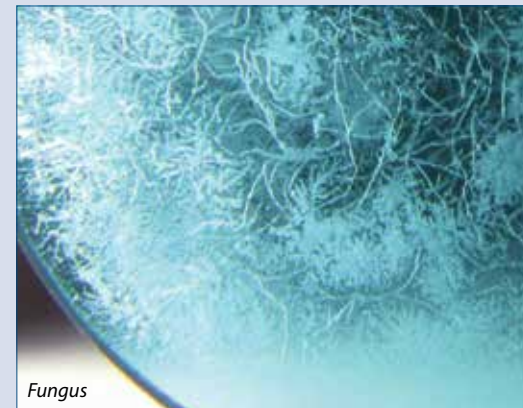
MODELS	Monocular	Binocular	Maximum objectives	4/10/S40x objectives	S60x objective	S100x objective	Mechanical X-Y stage	LED	NeoLED	Batteries
MB.1001	•		3	•				•		•
MB.1051	•		4	•			•	•		•
MB.1651	•		4	•	•		•	•		•
MB.1151	•		4	•		•	•	•		•
MB.1052		•	4	•			•		•	•
MB.1652		•	4	•	•		•		•	•
MB.1152		•	4	•		•	•		•	•



## Objectives

Most common microscope objectives come in different types:

- Achromatic objectives** Usually contain a pair of lenses and correct for color and have a flat field correction for about 65% of the image. If there are aberrations they occur in the outer 35% of the image
- Apochromatic objectives** Designed for color and spherical aberration correction on minimum of three wavelengths. These objectives offer the best flat field correction
- Semi plan objectives** Contain three or more (achromatic) lens elements and have an 80% 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 a 95% flat field and produce the best image quality



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  
MADE IN HOLLAND

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



MONOCULAR MODEL EC.1001	
<b>Dimensions</b>	<b>Weight</b>
(h) 355 x (w) 270 x (d) 220	2.48 kg

BINOCULAR MODEL EC.1152	
<b>Dimensions</b>	<b>Weight</b>
(h) 360 x (w) 170 x (d) 214	2.95 kg

POLARIZATION MODEL EC.2001-POL	
<b>Dimensions</b>	<b>Weight</b>
(h) 355 x (w) 170 x (d) 214	3.35 kg

HIGHLIGHTS

- Monocular, binocular and trinocular models with WF 10x/18 mm eyepiece(s)
- Models with integrated 3.2 MP CMOS camera
- Models for polarization applications
- Revolving nosepiece with four achromatic objectives
- Models with integrated mechanical stage available
- Coaxial coarse and fine adjustments with rack stop
- Height adjustable Abbe condenser with iris diaphragm and filter holder
- 1 W LED illumination with integrated power supply
- 1 W NeoLED™ illumination with rechargeable batteries and external 100-240 Vac mains/charger adapter
- Ergonomically designed stand
- Warranty 5 years

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 left tube. All heads are 360° rotatable. Models with an integrated USB-2 camera are supplied with a 3.2 MP 1/2" CMOS sensor with 2048 x 1536 pixels resolution. The trinocular head has a fixed light path beamsplitter (50:50) and generates an erect image. The EcoBlue can also be supplied with a discussion head

NOSEPIECE

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

OBJECTIVES

Achromatic 4x/0.10, 10x/0.25 and S40x/0.65 objectives. Models EC.1151, EC.1152 and EC.1153 also have an S100x oil immersion objective. The S40x, S60x and S100x oil immersion objectives are spring loaded. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

FOCUSING

Coaxial coarse and fine adjustments, 200 graduations, 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. The coarse adjustment are equipped with friction control

STAGE

Plain 123 x 119 mm stage with two non-removable object clamps (optional EC.9500 attachable 51 x 26 mm X-Y mechanical stage available. Plain 123 x 128 mm stage with integrated 70 x 27 mm X-Y mechanical stage. The models for polarization are supplied with 129 mm circular stage, 360° rotatable and 2 object clamps



EC.2001-POL ●



## CONDENSER

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

## ILLUMINATION

Monocular models are supplied with a 1 W LED illumination with integrated power supply. Binocular and trinocular models are supplied with an adjustable 1 W NeoLED™ illumination system for increased light output. Models EC.1051, EC.1151, EC.1152, EC.1153, EC.1652 and EC.1653 are supplied with rechargeable batteries and an external 100-240 V battery charger/mains adapter

The models for polarization are standard supplied with 20 W halogen illumination for correct color rendering and an integrated 100-240 V power supply; on special request.

LED illumination is also available

## CAMERA AND SOFTWARE

Models with integrated 3.2 MP CMOS USB-2 camera are supplied with the ImageFocus 4 capture and measurement software. Besides capturing of images and videos, this software allows measurements on still and live images and annotations on captured images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations

## PACKAGE CONTENT

Supplied with power cord or mains adapter-charger, dust cover, spare fuse, user manual and 5 ml immersion oil for models with an S100x objective. Models for polarization with halogen illumination are supplied with blue filter, models with LED illumination are supplied with a white filter. All packed in a polystyrene box



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

MODELS	Monocular	Binocular	Trinocular	Digital	S60x objective	S100x objective	Mechanical X-Y stage <sup>(1)</sup>	LED	NeoLED™	Batteries <sup>(2)</sup>	Polarization <sup>(3)</sup>
EC.1001	•							•			
EC.1101	•							•			
EC.1601	•				•			•			
EC.1051	•							•		•	
EC.1151	•							•		•	
EC.1152		•						•	•	•	
EC.1652		•			•			•	•	•	
EC.1153			•					•	•	•	
EC.1653			•		•			•	•	•	
EC.1005	•			•				•			
EC.1105	•			•				•			
EC.1605	•			•	•			•			
EC.2001-P	•										•
EC.2101-P	•								•		•
EC.2601-P	•				•						•
EC.2001-P-LED	•							•			•
EC.2101-P-LED	•							•	•		•
EC.2601-P-LED	•				•			•			•

<sup>(1)</sup> Integrated mechanical stage with 70 x 27 mm X-Y travel range

<sup>(2)</sup> With an external 100-240 V battery charger/mains adapter

<sup>(3)</sup> Polarization models supplied with 20 W halogen illumination except EC.2x01-P-LED versions which are supplied with LED's with a very similar light spectrum to the halogen illumination



● EC.1152

## ACCESSORIES AND SPARE PARTS

- AE.5571** Wide field eyepiece WF 5x/18 mm
- EC.6010** WF 10x/18 mm eyepiece
- EC.6015** WF 15x/12 mm eyepiece
- EC.6110** WF 10x/18 mm eyepiece with micrometer 10/100
- EC.6099** Pair of eyecups
- EC.7004** Achromatic 4x/0.10 objective.  
WD 37.5 mm
- EC.7010** Achromatic 10x/0.25 objective.  
WD 6.8 mm
- EC.7020** Achromatic 20x/0.40 objective.  
WD 2.0 mm
- EC.7040** Achromatic S40x/0.65 objective.  
WD 0.6 mm
- EC.7060** Achromatic S60x/0.85 objective.  
WD 0.185 mm
- EC.7000** Achromatic S100x/1.25 oil immersion objective.  
WD 0.195 mm
- AE.5511** Discussion head
- 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
- AE.5150** Simple polarization attachment. Analyzer 18 mm diameter mounted in eyepiece (rotatable), polarizer 32 mm diameter placed in filter holder
- AE.5152** Simple polarization attachment. Analyzer mounted over eyepiece (rotatable) and polarizer 32 mm diameter in filter holder
- AE.5153** Polarization attachment. Analyzer mounted over eyepiece and small (100 x 65 mm) 360° rotatable stage with built-in polarizer to place on plain stage
- AE.5154** Polarizer in mount, to place over eyepiece
- 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 of EcoBlue. Polarization filter to be mounted on the 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 of EcoBlue. 360° Rotatable polarization filter to be mounted on the 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 of EcoBlue. 360° Rotatable polarization filter to be mounted on the lamphouse
- EC.9981** 1 W LED replacement unit
- EC.9991** 1 W NeoLED™ replacement unit
- SL.1379** Spare halogen 20 W 12 V bulb for polarization models
- EC.9975** External mains/charger adapter 100-240 Vac/5 Vdc (50/60 Hz)
- AE.5130** Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Need T2 adapter
- AE.5025** T2 adapter for Nikon D digital SLR cameras
- AE.5040** T2 adapter for Canon EOS digital SLR cameras  
*Other T2 adapters on request*
- AE.9918** Nylon microscope bag (25 x 39 x 19 cm)
- PB.5155** Microscope slides 76 x 26 mm, ground edges, 50 pieces
- PB.5165** Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
- PB.5168** Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
- PB.5245** Lens cleaning paper, 100 sheets per pack
- PB.5255** Immersion oil, n = 1.482 (25 ml)
- PB.5274** Isopropyl alcohol 99% (200 ml)
- PB.5275** Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs

## 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 built-in rechargeable batteries enable the microscope to be used both corded and cordless

### DIGITAL MICROSCOPY

Modern microscopy uses CMOS or CCD cameras for digital output to computer or HDMI displays. Users can use ImageFocus 4 image 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

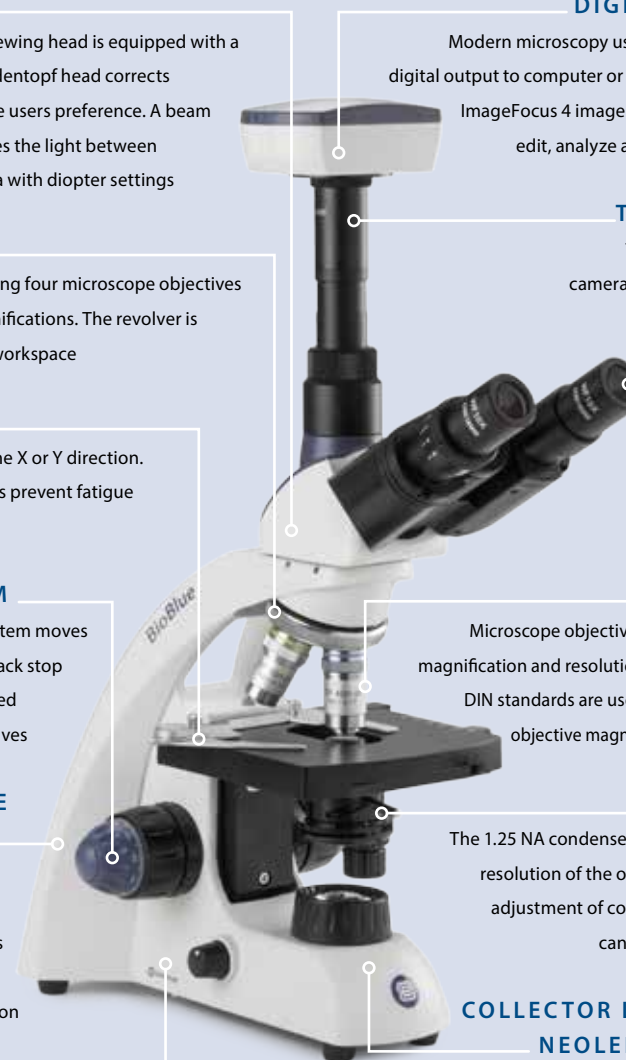
Microscope objectives are crucial for determining magnification and resolution of the image. International DIN standards are used during production. Typical objective magnifications are 4x/10x/40x/100x

### 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



TECHNICAL  
FACTS

BIOLOGICAL MICROSCOPES

BlueLine  
MADE IN HOLLAND

NeoLED™  
euromex optical technology

FEATURED



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

MONOCULAR MODEL BB.4200	
Dimensions	Weight
(h) 340 x (w) 155 x (d) 230 mm	3.0 kg

BINOCULAR MODEL BB.4260	
Dimensions	Weight
(h) 360 x (w) 155 x (d) 230 mm	4.0 kg

POLARIZATION MODEL BB.4200-P	
Dimensions	Weight
(h) 360 x (w) 155 x (d) 230 mm	4.4 kg

BB.4240 ●



● BB.4260

HIGHLIGHTS

- WF 10x/18mm eyepiece(s)
- Models with integrated 3.2 MP CMOS camera
- Models for polarization applications
- Reversed nosepiece for four semi plan objectives
- Integrated X-Y mechanical stage
- Coaxial coarse and fine adjustments with rack stop
- Height adjustable Abbe condenser with iris diaphragm and filter holder
- Monocular models with 1 W LED illumination
- Binocular and trinocular models supplied with 1 W NeoLED™ illumination for increased light output
- LED models with rechargeable batteries and integrated power supply
- Ergonomically designed stand
- Warranty 10 years

SPECIFICATIONS

EYEPIECE(S)

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

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 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 beamsplitter (50:50) and generates an erect image. Models with an integrated USB-2 camera are supplied with a 3.2 MP 1/2" CMOS sensor with 2048 x 1536 pixel resolution

NOSEPIECE

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

OBJECTIVES

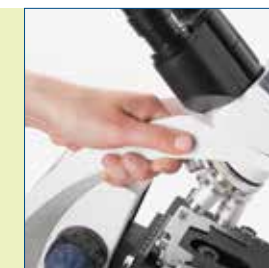
All models are supplied with semi plan 4x/0.10, 10x/0.25 and S40x/0.65 objectives. Models with an S60x/0.85 or S100x/1.25 oil immersion objective are also available. The S40x, S60x and S100x oil immersion objectives are spring loaded.

*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

The ergonomic carrying grip enables easy transportation

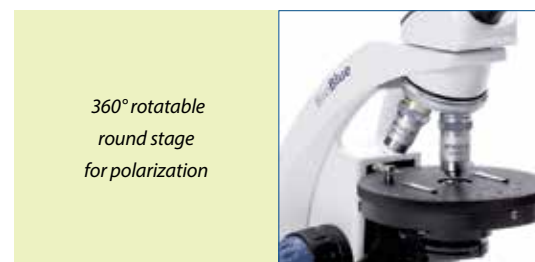


## SPECIFICATIONS

Total travel range is approximately 23 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control

### STAGE

130 x 130 mm with mechanical 70 x 28 mm X-Y translation stage except for models BB.4200 and BB.4205. These models have a 120 x 120 mm plain stage supplied with two non-removable object clamps. The models for polarization are supplied with 129 mm round stage, 360° rotatable and two object clamps



360° rotatable round stage for polarization

### POLARIZATION EQUIPMENT

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

### CONDENSER

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

### ILLUMINATION

Binocular and trinocular models are supplied with an adjustable 1 W NeoLED™ illumination system for increased light output. Monocular models have a standard adjustable 1 W LED illumination. All BioBlue microscopes – except the polarization models – are supplied with rechargeable batteries and integrated power supply for cordless operation. The models for polarization are standard supplied with a 20 W halogen illumination for correct color rendering and an integrated 100-240 Vac power supply. On special request LED illumination is also available

### CAMERA AND SOFTWARE

Models with integrated 3.2 MP CMOS USB-2 camera are supplied with the ImageFocus 4 capture and measurement software. Besides capturing images and videos, this software also allows measurements on still and live images and annotations on captured images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations

### PACKAGE CONTENT

Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil for models with S100x objective. Models for polarization with a halogen illumination are supplied with a blue filter, models with LED illumination are supplied with a white filter. All packed in a polystyrene box



Monocular head



Binocular head



Trinocular head



Digital monocular head



Digital binocular head



Discussion head



● BB.4200



BB.4300 ●



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

MODELS	Monocular	Binocular	Trinocular	Digital	S60x objective	S100x objective	Mechanical X-Y stage	LED	NeoLED™	Polarization <sup>(1)</sup>
BB.4200	•							•		
BB.4220	•						•	•		
BB.4240	•				•		•	•		
BB.4250	•						•	•		
BB.4260		•					•		•	
BB.4263		•			•		•		•	
BB.4243			•		•		•		•	
BB.4253			•				•		•	
BB.4205	•			•				•		
BB.4225	•			•			•	•		
BB.4245	•			•	•		•	•		
BB.4255	•			•			•	•		
BB.4267		•		•			•		•	
BB.4269		•		•	•		•		•	
BB.4220-P	•									•
BB.4240-P	•				•					•
BB.4260-P		•				•				•
BB.4220-P-LED	•							•		•
BB.4240-P-LED	•				•			•		•
BB.4260-P-LED		•				•		•		•

<sup>(1)</sup> Polarization models supplied with 20 W halogen illumination except BB.4xx1-P-LED versions, which are supplied with LED's with a very similar light spectrum to the halogen illumination and supplied with a cross hair eyepiece for centering

## ACCESSORIES AND SPARE PARTS

- AE.5571** Wide field eyepiece WF 5x/18 mm
- AE.5572** Wide field eyepieces WF 10x/18 mm
- AE.5573** 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.5582** Wide field eyepiece WF 20x/11.5 mm
- AE.5365** Eyecup for 28 mm eyepieces
- AE.1110** Stage micrometer 1 mm/ 100 parts

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

**AE.5511** Discussion head

- AE.5202** Blue filter, diameter 32 mm
- AE.5203** Yellow filter, diameter 32 mm
- AE.5204** Neutral grey filter, diameter 32 mm
- AE.5205** Green filter, diameter 32 mm
- AE.5207** Blue filter plexiglass, diameter 32 mm

● BioBlue microscope with polarization kit



- AE.5130** Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Need 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*

- BB.4300** Aluminum case
- AE.9918** Nylon microscope bag (25 x 39 x 19 cm)

**BB.9302** Analyzer in slider

- AE.9981** 1 W LED replacement unit
- AE.9991** 1 W NeoLED™ replacement unit
- SL.1379** Spare halogen 20 W 12 V bulb for BioBlue polarization models

**AE.5227** Glass fuses 1 A 250 V, 10 pieces

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

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

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

**PB.5245** Lens cleaning paper, 100 sheets per pack

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

**PB.5274** Isopropyl alcohol 99% (200 ml)

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

**AE.5150** Simple polarization attachment.

Polarizer 18 mm diameter mounted in eyepiece, analyzer 32 mm diameter placed in filter holder

**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.5153** Polarization attachment. Analyzer mounted over eyepiece and small (100 x 65 mm) 360° rotatable stage with built-in polarizer to be mounted on plain stage

**AE.5154** Polarizer in mount, to place over eyepiece

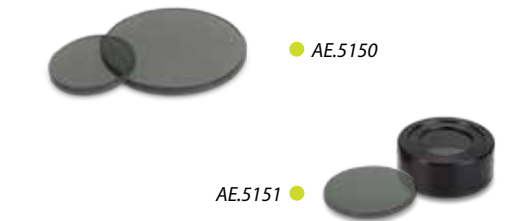
**AE.5156** Simple polarization kit with analyzer in slider and polarization filter to be mounted on lamphouse

**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

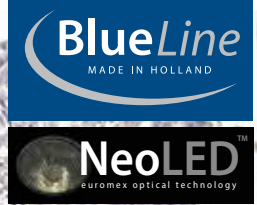
**AE.5155-P** Polarization kit with analyzer in slider and small rotatable (100 x 65 mm) stage with two clamps to be mounted on plain stage. Polarization filter to be mounted on lamphouse

**AE.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



# BIOLOGICAL MICROSCOPES



## BioBlue.Lab

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

● **BB.1153-PLi**

MONO	BINO	TRINO	360°	INCIDENT	TRANSMITTED	POLARIZED	KIHLER	INFINITY
LED	NeoLED	MALDEN	HIGH-DO	ESD	PHASE	ABBE	ZOOM	DARK
DIGITAL	WIFI	USB	BATTERY	100-240V	100-240V	2 WARRANTY	5 WARRANTY	10 WARRANTY

<b>BB.1152-PLi</b>	
<b>Dimensions</b>	<b>Weight</b>
(h) 378 x (w) 190 x (d) 260 mm	5.4 kg
<b>BB.1153-PLi</b>	
<b>Dimensions</b>	<b>Weight</b>
(h) 448 x (w) 190 x (d) 260 mm	5.6 kg

## HIGHLIGHTS

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



BB.1152-PLi ●



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

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

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

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

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

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



BioBlue ●

BioBlue.Lab ●

## SPECIFICATIONS

### EYEPIECES

Wide field WF 10x/20 mm eyepieces

### HEAD

Binocular and trinocular models have 30° inclined Ø 30 mm tubes. The interpupillary distance is adjustable between 48 to 75 mm. All models have a ±5 diopter adjustment on left tube. All heads are 360° rotatable and secured with a screw. The trinocular head has a fixed light path beamsplitter (50:50) and generates an erect image

### NOSEPIECE

Reversed quadruple nosepiece on ball bearings

### OBJECTIVES

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

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

### FOCUSING

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

### STAGE

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

### CONDENSER

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

### ILLUMINATION

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

### WEIGHT

The BioBlue.Lab weighs approx. 5.5 kg

### PACKAGE CONTENT

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

All packed in a polystyrene box



MODELS	Binocular	Trinocular	4x/10x/S40x/ S100x plan objectives	4x/10x/S40x/ S100x plan IOS objectives	10x/20x/S40x/S100x plan phase objective	10x/20x/S40x/S100x plan phase IOS objectives	Rackless mechanical stage	NeoLED™
BB.1152-PL	•		•				•	•
BB.1153-PL		•	•				•	•
BB.1152-PLi	•			•			•	•
BB.1153-PLi		•		•			•	•
BB.1152-PLPH	•				•		•	•
BB.1153-PLPH		•			•		•	•
BB.1152-PLPHi	•					•	•	•
BB.1153-PLPHi		•				•	•	•

## ACCESSORIES AND SPARE PARTS

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

**BB.6015** WF 15x/15 mm eyepiece, 30 mm tube

**BB.6110** WF 10x/20 mm eyepiece, 30 mm tube with micrometer reticle

**BB.6020** WF 20x/11 mm eyepiece, 30 mm tube

**BB.6099** Pair of eyecups

**BB.8804** Plan DIN 4x/0.10 objective. WD 17.92 mm

**BB.8810** Plan DIN 10x/0.25 objective. WD 2.04 mm

**BB.8820** Plan DIN 20x/0.40 objective. WD 1.20 mm

**BB.8840** Plan DIN S40x/0.65 objective. WD 0.65 mm

**BB.8860** Plan DIN S60x/0.80 objective. WD 0.19 mm

**BB.8800** Plan DIN S100x/1.25 oil immersion objective. WD 0.18 mm

**BB.7204** Plan DIN 4x/0.10 IOS objective. WD 7.18 mm

**BB.7210** Plan DIN 10x/0.25 IOS objective. WD 4.80 mm

**BB.7220** Plan DIN 20x/0.40 IOS objective, WD 5.27 mm

**BB.7240** Plan DIN S40x/0.65 IOS objective. WD 0.68 mm

**BB.7260** Plan DIN S60x/0.85 IOS objective. WD 0.50 mm

**BB.7200** Plan DIN S100x/1.25 oil immersion IOS objective. WD 0.20 mm

**BB.8910** Plan phase DIN 10x/0.25 objective. WD 2.04 mm

**BB.8920** Plan phase DIN 20x/0.40 objective. WD 1.20 mm

**BB.8940** Plan phase DIN S40x/0.65 objective. WD 0.65 mm

**BB.8900** Plan phase DIN S100x/1.25 oil immersion IOS objective. WD 0.18 mm

**BB.7710** Plan phase DIN 10x/0.25 IOS objective. WD 4.7 mm

**BB.7720** Plan phase DIN 20x/0.40 IOS objective. WD 1.75 mm

**BB.7740** Plan phase DIN S40x/0.65 IOS objective. WD 0.72 mm

**BB.7700** Plan phase DIN S100x/1.25 oil immersion objective. WD 0.50 mm

**BB.9880** Köhler attachment

**BB.9900** Aluminum case

**BB.9993** 3 W NeoLED™ replacement unit

**AE.5130** Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Need T2 adapter

**AE.5040** T2 ring for Canon EOS SLR digital camera

**AE.5025** T2 ring for Nikon D SLR digital camera

**BB.9732** Polarization filter, 32 mm diameter. Fits in filter holder

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

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

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

**PB.5245** Lens cleaning paper, 100 sheets per pack

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

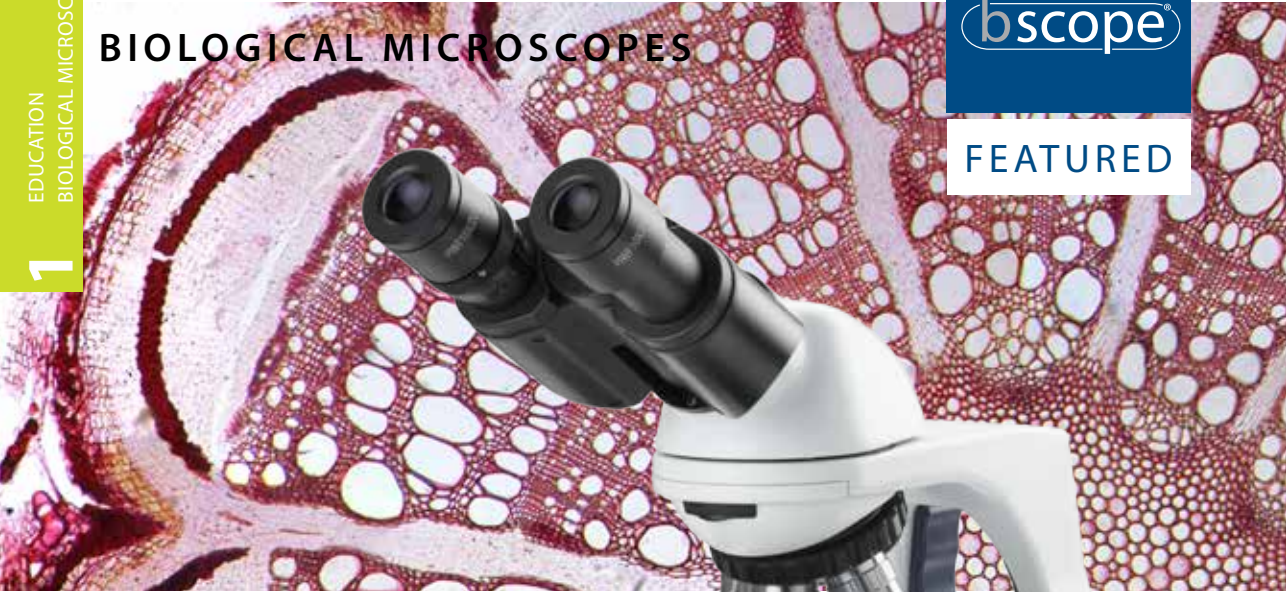
**PB.5274** Isopropyl alcohol 99% (200 ml)

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

# BIOLOGICAL MICROSCOPES

bscope®

FEATURED



## bScope®

The well-equipped, versatile and evolutive microscopes of the bScope® series are intensively used in secondary schools, universities, small and mid-sized laboratories and in 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.1152-PLi ●

<b>BINOCULAR MODEL</b> BS.1152-XXX	
<b>Dimensions</b>	<b>Weight</b>
(h) 409 x (w) 235 x (d) 195	6.5 kg
<b>TRINOCULAR MODEL</b> BS.1153-XXX	
<b>Dimensions</b>	<b>Weight</b>
(h) 459 x (w) 235 x (d) 195	6.6 kg



● BS.1153-PLi

● BS.1153-PLPHi

## SPECIFICATIONS

### EYEPIECES

High wide field HWF 10x/20 mm secured eyepieces with 20 mm field of view (Ø 23.2 mm tube)

### HEAD

The bScope® is equipped with a Siedentopf type head, 360° rotatable and equipped with 30° inclined Ø 23.2 mm tubes. Binocular and trinocular models are equipped with a diopter ± 5 adjustment on left eyepiece. The interpupillary distance is adjustable between 48 to 76 mm

The models equipped with plan infinity corrected PLi objectives have a unique swiveling system of the eyepiece tubes for ergonomic positioning of the eyepieces in a high and in a low position

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

## HIGHLIGHTS

- Versatile and evolutive microscopes
- Binocular and trinocular models
- HWF 10x/20 mm eyepieces
- Reversed ball-bearing quadruple or quintuple nosepiece
- E-plan, E-plan IOS and Plan IOS objectives
- E-plan Phase, E-plan Phase IOS, Plan Phase IOS objectives
- Integrated rackless X-Y mechanical stage
- 3 W NeoLED™ adjustable illumination system
- Integrated carrying grip
- Cable Storage System and anti-theft system
- 10 years warranty

### NOSEPIECE

Revolving and reversed ball-bearing quadruple or quintuple nosepiece

### OBJECTIVES

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

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

- Phase contrast models: E-plan Phase, E-plan Phase IOS infinity corrected, Plan Phase IOS infinity corrected 10x/0.25, 20x/0.40, S40x/0.65 and S100x/1.25 oil immersion objectives

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

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



## FOCUSING

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

## STAGE

The bScope® is equipped with a scratch resistant 152/197 x 131 mm stage with integrated 75 x 36 mm X-Y rackless mechanical stage, Vernier scale and soft-close removable specimen holder.

The rackless stage has no protruding parts, enables smooth movements and is safer in use. 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

## CONDENSER FOR ZERNIKE PHASE CONTRAST

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

## CONDENSERS WITH PHASE CONTRAST SLIDER

The height adjustable NA. 1.25 phase contrast condensers have either a slider for 10/S40x phase contrast objectives or a slider for 20/S100x phase contrast objectives. The condensers have an iris diaphragm and filter holder. The sliders include a BF position for brightfield contrast. Phase contrast objectives

in either EPL-PH, EPL-PHi or PL-PHi version. Supplied with alignment telescope and green filter

## POLARIZATION

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

## NEOLED™ ILLUMINATION

The 3 W adjustable Köhler NeoLED™ diasopic 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



Swing-out  
Abbe condenser  
0.9/1.25 NA



Zernike phase  
contrast condenser  
with filter holder



Ergonomic carrying  
grip for easy  
transportation

the optics. Other benefits of the NeoLED™ is the low energy consumption, no heating and a long operating lifetime

## KÖHLER ILLUMINATION

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

## CORDLESS USE

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

## CSS – CABLE STORAGE SYSTEM

Allows users to easily stow away excess cable length into the

## BSCOPE® FOR BRIGHTFIELD

MODELS	Bino	Trino	HWF 10x/20 mm eyepieces	Rackless integrated X-Y mechanical stage	Quadruple nosepiece E-plan 4/10/S40/ S100x	Quintuple nosepiece E-plan IOS 4/10/S40/ S100x	Quintuple nosepiece Plan IOS 4/10/S40/ S100x	Köhler NeoLED™	NeoLED™	2-position swiveling ergo head	Rechargeable batteries
BS.1152-EPL	•		•	•	•				•		o
BS.1153-EPL		•	•	•	•				•		o
BS.1152-EPLi	•		•	•		•		•		•	o
BS.1153-EPLi		•	•	•		•		•		•	o
BS.1152-PLi	•		•	•			•	•		•	o
BS.1153-PLi		•	•	•			•	•		•	o

## BSCOPE® FOR PHASE CONTRAST

MODELS	Bino	Trino	HWF 10x/20 mm eyepieces	Rackless integrated X-Y mechanical stage	Quadruple nosepiece E-plan Phase 10/20/S40 /S100x	Quintuple nosepiece E-plan Phase IOS 10/20/S40 /S100x	Quintuple nosepiece Plan Phase IOS 10/20/S40 /S100x	Köhler NeoLED™	NeoLED™	2-position swiveling ergo head	Rechargeable batteries
BS.1152-EPLPH	•		•	•	•				•		o
BS.1153-EPLPH		•	•	•	•				•		o
BS.1152-EPLPHi	•		•	•		•		•		•	o
BS.1153-EPLPHi		•	•	•		•		•		•	o
BS.1152-PLPHi	•		•	•			•	•		•	o
BS.1153-PLPHi		•	•	•			•	•		•	o

o = optional

back of the instrument during operation and to roll up the power cable for easy storage

## CARRYING GRIP

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

## ANTI-THEFT SLOT

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

## PACKAGE CONTENT

Smart Styrofoam packaging ensures a low environmental footprint while maintaining maximum safety during transport. Supplied with power cord, dust cover, tools, a spare fuse, white filter, user manual and 5 ml immersion oil  
*Phase contrast models are supplied with green filter and alignment telescope*

## ACCESSORIES AND SPARE PARTS

- BS.6010** HWF 10x/20 mm eyepiece, Ø 23.2 mm tube
- BS.6010-P** HWF 10x/20 mm with pointer, Ø 23.2 mm tube
- BS.6010-C** HWF 10x/20 mm eyepiece with cross hair, Ø 23.2 mm tube
- BS.6010-CM** HWF 10x/20 mm eyepiece, Ø 23.2 mm tube with 10/100 micrometer and cross hair
- BS.6012** WF 12.5x/14 mm eyepiece, Ø 23.2 mm tube
- BS.6015** WF 15x/11 mm eyepiece, Ø 23.2 mm tube
- BS.6020** WF 20x/11 mm eyepiece, Ø 23.2 mm tube
- BS.6099** Pair of eyecups (finit models)
- BS.7104** E-plan EPL 4x/0.10 objective.  
WD 37.0 mm
- BS.7110** E-plan EPL 10x/0.25 objective.  
WD 6.61 mm
- BS.7120** E-plan EPL 20x/0.40 objective. WD 1.85 mm
- BS.7140** E-plan EPL S40x/0.65 objective. WD 0.64 mm
- BS.7160** E-plan EPL S60x/0.85 objective. WD 0.20 mm
- BS.7100** E-plan EPL S100x/1.25 objective. WD 0.19 mm
- BS.7510** E-Plan Phase EPLPH 10x/0.25 objective.  
WD 5.95 mm
- BS.7520** E-Plan Phase EPLPH 20x/0.40 objective.  
WD 2.61 mm
- BS.7540** E-Plan Phase EPLPH S40x/0.65 objective.  
WD 0.66 mm
- BS.7500** E-Plan Phase EPLPH S100x/1.25 objective.  
WD 0.36 mm
- BS.8204** E-plan EPLi 4x/0.10 IOS objective. WD 18.9 mm
- BS.8210** E-plan EPLi 10x/0.25 IOS objective. WD 5.95 mm
- BS.8220** E-plan EPLi 20x/0.40 IOS objective. WD 2.61 mm
- BS.8240** E-plan EPLi S40x/0.65 IOS objective. WD 0.78 mm
- BS.8200** E-plan EPLi S100x/1.25 IOS objective.  
WD 0.36 mm
- BS.8404** Plan PLi 4x/0.10 IOS objective. WD 21.0 mm
- BS.8410** Plan PLi 10x/0.25 IOS objective. WD 5.0 mm
- BS.8420** Plan PLi 20x/0.40 IOS objective. WD 8.8 mm
- BS.8440** Plan PLi S40x/0.65 IOS objective. WD 0.66 mm
- BS.8400** Plan PLi S100x/1.25 IOS objective. WD 0.36 mm

- BS.8510** E-Plan Phase EPLPHi 10x/0.25 IOS objective.  
WD 5.95 mm
- BS.8520** E-Plan Phase EPLPHi 20x/0.40 IOS objective.  
WD 2.61 mm
- BS.8540** E-Plan Phase EPLPHi S40x/0.65 IOS objective.  
WD 0.76 mm
- BS.8500** E-Plan Phase EPLPHi S100x/1.25 IOS objective.  
WD 0.36 mm
- BS.8710** Plan Phase PLPHi 10x/0.25 IOS objective.  
WD 5.00 mm
- BS.8720** Plan Phase PLPHi 20x/0.40 IOS objective.  
WD 8.80 mm
- BS.8740** Plan Phase PLPHi S40x/0.65 IOS objective.  
WD 0.66 mm
- BS.8700** Plan Phase PLPHi S100x/1.25 IOS objective.  
WD 0.36 mm
- BS.9105** Swing-out Abbe condenser 0.9/1.25 NA
- BS.9170** Darkfield stop for standard Abbe condenser
- BS.9118** Zernike phase contrast kit with E-plan EPLPH 10/20/S40 and S100x oil phase contrast objectives, Zernike rotating condenser, telescope and green filter
- BS.9120** Zernike phase contrast kit with E-plan EPLPHi 10/20/S40 and S100x oil phase contrast IOS infinity corrected objectives, Zernike rotating condenser, telescope and green filter
- BS.9123** Zernike phase contrast kit with plan PLPH 10/20/S40 and S100x oil phase contrast objectives, Zernike rotating condenser, telescope and green filter
- BS.9126** Zernike phase contrast kit with plan PLPHi 10/20/S40 and S100x oil phase contrast IOS infinity corrected objectives, Zernike rotating condenser, telescope and green filter
- BS.9149** Alignment telescope

- BS.9156** Phase contrast kit with Abbe condenser with slot for slider. E-plan EPLPH 10/S40x phase contrast objectives, slider with 10 and 40x annuli, telescope and green filter
- BS.9157** Phase contrast kit with Abbe condenser with slot for slider. E-plan EPLPH 20/S100x phase contrast objectives, slider with 20 and 100x annuli, telescope and green filter
- BS.9158** Phase contrast kit with Abbe condenser with slot for slider. E-plan EPLPH i 10/S40x phase contrast infinity corrected objectives, slider with 10 and 40x annuli, telescope and green filter

- BS.9159** Phase contrast kit with Abbe condenser with slot for slider. E-plan EPLPHi 20/S100x phase contrast infinity corrected objectives, slider with 20 and 100x annuli, telescope and green filter
- BS.9162** Phase contrast kit with Abbe condenser with slot for slider. Plan PLPH i 10/S40x phase contrast infinity corrected objectives, slider with 10 and 40x annuli, telescope and green filter
- BS.9163** Phase contrast kit with Abbe condenser with slot for slider. Plan PLPHi 20/S100x phase contrast infinity corrected objectives, slider with 20 and 100x annuli, telescope and green filter
- BS.9660** Polarization kit: analyzer under head and polarizer on lamphouse
- BS.9880** Köhler attachment
- BS.9900** Aluminum transport case
- BS.9993** NeoLED™ replacement unit
- AE.1370** Set of rechargeable batteries, 3 pieces
- 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 ring for Nikon D SLR digital camera
- AE.5040** T2 ring for Canon EOS SLR digital camera
- PB.5155** Microscope slides 76 x 26 mm, ground edges, 50 pieces
- PB.5165** Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
- PB.5168** Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
- PB.5245** Lens cleaning paper, 100 sheets per pack
- PB.5255** Immersion oil (25 ml). n = 1.482
- PB.5274** Isopropyl alcohol 99% (200 ml)
- PB.5275** Cleaning kit: lens cleaning fluid, lint free lens tissue/paper, brush, air blower, cotton swabs



● BS.1152-PLi

# BIOLOGICAL MICROSCOPES

iscope®

FEATURED



IS.1153-PLi ●

## iScope®

The iScope® microscopes exceed today's standard, as it provides more comfort and convenience for microscopists with ergonomic features such as height adjustable eyetubes 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 that are 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



<b>IS.1152-PLi</b>	
<b>Dimensions</b>	<b>Weight</b>
(h) 407 x (w) 210 x (d) 255 mm	9.0 kg



IS.1152-EPL ●

## 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 finity 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 beamsplitter (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 beamsplitter 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 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 30 mm diameter tubes of the head are equipped with EWF 10x/20 mm eyepieces. The main binocular head has one diopter adjustment, the second head has two adjustments. Only available for the model with plan infinity corrected objectives (IS.1154-PLi).

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

E-Plan EPL	4x/0.10	10x/0.25	20x/0.40 <sup>(1)</sup>	S40x/0.65	S100x/1.25 oil
E-Plan EPLi IOS	4x/0.10	10x/0.25	20x/0.40 <sup>(1)</sup>	S40x/0.65	S100x/1.25 oil
Plan PLi IOS	4x/0.10	10x/0.25	20x/0.40 <sup>(1)</sup>	S40x/0.65	S60x/0.85 <sup>(1)</sup>
Plan phase PLPH		10x/0.25	20x/0.40	S40x/0.65	S100x/1.25 oil
Plan phase PLPHi IOS		10x/0.25	20x/0.40	S40x/0.65	S100x/1.25 oil

<sup>(1)</sup> optional

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

## NOSEPIECE

Revolving quintuple reversed nosepiece for max. 5 objectives

## STAGE

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

- 156 x 138 mm stage equipped with integrated 79 x 52 mm X-Y mechanical stage
- 187/230 x 140 mm rackless stage equipped with double slide holder and integrated 79 x 52 mm X-Y mechanical stage. The iScope® rackless stage has no protruding parts, enables more smooth movements and is safer
- 220 x 157 mm ceramic stage with integrated 75 x 50 mm X-Y mechanical stage 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

## CONDENSER FOR DARKFIELD

A state-of-the-art condenser equipped with reflective cardioid mirrors, a high powered 5 W LED and a S100x objective with built-in iris diaphragm enable a real 1000x magnification darkfield solution.

By using IS.9150 and 86.521 an existing brightfield microscope can be upgraded to darkfield

## FOCUSING

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

## ILLUMINATION

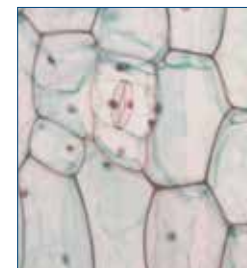
3 W adjustable Köhler NeoLED™ diascope illumination with internal 100-240 V power supply

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 lifetime.

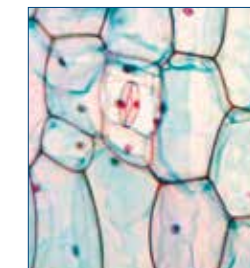
The Köhler illumination on models with IOS plan and plan phase infinity corrected system provides high contrast and a maximum achievable resolving power of the optics. Also available for other models as option

## ICARE SENSOR

The unique iCare Sensor is developed to avoid unnecessary loss of energy. The illumination of the microscope



● Normal LED



● NeoLED™

automatically switches off shortly after microscopists step away from their position

## CSS – CABLE STORAGE SYSTEM

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

## PACKAGE CONTENT

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



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



● IS.1153-EPL

● IS.1153-PLi

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

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

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

MODELS	Binocular	Trinocular	Phase contrast	EWF 10x22 mm	E-plan IOS objectives	Plan IOS objectives	Plan phase IOS objectives	Mechanical stage	iCare Sensor	Köhler LED
IS.1152-EPLi	•			•	•			•	•	
IS.1153-EPLi		•		•	•			•	•	
IS.1152-PLi	•			• <sup>(1)</sup>		•		•	•	•
IS.1153-PLi		•		• <sup>(1)</sup>		•		•	•	•
IS.1152-PLPHi	•		•	• <sup>(1)</sup>		•	•	•	•	•
IS.1153-PLPHi		•	•	• <sup>(1)</sup>		•	•	•	•	•

<sup>(1)</sup> Two tubes with diopter adjustments

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

MODELS	Total users	Binocular	Trinocular	EWF 10x20 mm	Plan IOS objectives	Mechanical rackless stage	iCare sensor	Köhler LED
IS.1156-PLi2	2	1x	•	•	•	•	•	•
IS.1156-PLi3	3	2x	•	•	•	•	•	•
IS.1156-PLi5	5	4x	•	•	•	•	•	•
IS.1156-PLi9	9	8	•	•	•	•	•	•

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

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

NeoLED™ ●



## ACCESSORIES AND SPARE PARTS

- IS.6010** EWF 10x/20 mm eyepiece (Ø23.2 mm tube)
- IS.6010-P** EWF 10x/20 mm eyepiece with pointer (Ø23.2 mm tube)
- IS.6010-C** EWF 10x/20 mm eyepiece with crosshair (Ø23.2 mm tube)
- IS.6010-CM** EWF 10x/20 mm eyepiece with 10/100 micrometer and cross (Ø23.2 mm tube)
- IS.6015** WF 15x/16 mm eyepiece (Ø23.2 mm tube)
- IS.6020** WF 20x/12 mm eyepiece (Ø23.2 mm tube)
- IS.6210** EWF 10x/22 mm eyepiece (Ø 30mm tube)
- IS.6210-C** EWF 10x/22 mm eyepiece with crosshair (Ø30 mm tube)
- IS.6210-P** EWF 10x/22 mm eyepiece with pointer (Ø30 mm tube)
- IS.6210-CM** EWF 10x/22 mm eyepiece with 10/100 micrometer and cross hair (Ø30 mm tube)
- IS.6215** WF 15x/16 mm eyepiece (Ø30 mm tube)
- IS.6220** WF 20x/12 mm eyepiece (Ø30 mm tube)
- IS.6299** Pair of eyecups for infinity models (Ø30 mm tube)
- IS.7104** E-plan EPL 4x/0.10 objective. WD 15.2 mm
- IS.7110** E-plan EPL 10x/0.25 objective. WD 5.5 mm
- IS.7120** E-plan EPL 20x/0.40 objective. WD 3.5 mm
- IS.7140** E-plan EPL S40x/0.65 objective. WD 0.45 mm
- IS.7160** E-plan EPL S60x/0.85 objective. WD 0.19 mm
- IS.7100** E-plan EPL S100x/1.25 objective. WD 0.13 mm
- IS.8804** E-plan EPLi 4x/0.10 IOS objective. WD 15.4 mm
- IS.8810** E-plan EPLi 10x/0.25 IOS objective. WD 5.8 mm
- IS.8840** E-plan EPLi S40x/0.65 IOS objective. WD 0.43 mm
- IS.8800** E-plan EPLi S100x/1.25 IOS objective. WD 0.13 mm
- IS.7202** Plan PLi 2x IOS objective, WD 18.3 mm. Best to be used together with swing-out condenser
- IS.7204** Plan PLi 4x/0.10 IOS objective. WD 15.4 mm
- IS.7210** Plan PLi 10x/0.25 IOS objective. WD 10 mm
- IS.7220** Plan PLi 20x/0.40 IOS objective. WD 5.1 mm
- IS.7240** Plan PLi S40x/0.65 IOS objective. WD 0.54 mm
- IS.7250** Plan PLi S50x/0.90 IOS objective. WD 0.12 mm
- IS.7260** Plan PLi S60x/0.85 IOS objective. WD 0.14 mm
- IS.7200** Plan PLi S100x/1.25 IOS objective. WD 0.13 mm
- IS.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
- IS.9600** Polarization filter 45 mm for lamphouse
- IS.9601** Polarization set: simple rotating polarizer for lamphouse and fix polarizer mounted under head
- IS.9626** Polarization filter for mounting under the head
- IS.9700** Blue filter 45 mm for lamphouse
- IS.9702** Green filter 45 mm for lamphouse
- IS.9704** Yellow filter 45 mm for lamphouse
- IS.9706** White opaque filter 45 mm for lamphouse
- IS.9880** Köhler attachment
- AE.3684** Glass fuses 500 mA 250 V, 10 pieces
- SL.5500** NeoLED™ replacement unit
- AE.5130** Universal SLR adapter with built-in 2x lens for standard 23.2 mm tube. Needs T2 adapter
- AE.5025** T2 ring for Nikon D SLR digital camera
- AE.5040** T2 ring for Canon EOS SLR digital camera
- PB.5155** Microscope slides 76 x 26 mm, ground edges, 50 pieces per pack
- PB.5165** Cover glasses 18 x 18 mm, 0.13-0.17 mm, 100 pieces
- PB.5168** Cover glasses 22 x 22 mm, 0.13-0.17 mm, 100 pieces
- PB.5245** Lens cleaning paper, 100 sheets per pack
- PB.5255** Immersion oil, 25 ml. Refraction index n = 1.482
- PB.5274** Iso propyl alcohol 99%, 200 ml
- PB.5275** Cleaning kit: lens fluid, lint free lens tissue/paper, brush, air blower, cotton swabs

For phase contrast accessories, see chapter 4

# StereoMicroscopes

Education



EDUBLUE • PAGE 48  
STEREOBLUE • PAGE 52  
NEXIUSZOOM • PAGE 57  
AP SERIES • PAGE 64



# StereoMicroscopes

## Education

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

# STEREO MICROSCOPES



2 EDUCATION 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

● Rack & pinion stand model ED.1402-S



ED.1302-P / ED.1402-P	
<b>Dimensions</b>	<b>Weight</b>
(h) 225 x (w) 175 x (d) 220 mm	2.4 kg

ED.1302-S / ED.1402-S	
<b>Dimensions</b>	<b>Weight</b>
(h) 260 x (w) 175 x (d) 220 mm	2.1 kg

ED.1505-S / ED.1805-S	
<b>Dimensions</b>	<b>Weight</b>
(h) 260 x (w) 175 x (d) 220 mm	2.3 kg

## HIGHLIGHTS

- Designed for education
- Robust and sturdy, with secured eyepieces
- WF 10x/20 mm eyepieces
- Dual or triple magnifications
- Available in ergonomic rack & pinion and pillar stands
- Double 1 W LED illumination
- With rechargeable batteries for cordless use
- Digital models with 3.2 MP camera available
- Ergonomic carrying grip
- 5 years warranty

## SPECIFICATIONS

### EYEPIECES

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

### HEAD

- Binocular head with 45° inclined tube.
- Diopter adjustment of  $\pm 5$  on one side
- Interpupillary distance adjustable between 55 and 75 mm
- Digital head is supplied with a 3.2 MP USB-2 1/2" CMOS camera
- Maximum 2048 x 1536 pixels resolution

### DUAL MAGNIFICATION OBJECTIVES

- Revolving nosepiece with dual 1x/3x and 1x/2x 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

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



Pillar stand model ED.1302-P ●



Revolving nosepiece with triple magnification

2 EDUCATION STEREO MICROSCOPES



## SPECIFICATIONS

### STAND

The rack & pinion and pillar stands of the EduBlue are equipped with ergonomically designed 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

### ILLUMINATION

The transmitted and incident 1 W LED illuminations can be used simultaneously and the light intensities can be adjusted separately. Supplied with an external 100-240 V mains adapter/charger and 3 rechargeable batteries for corded and cordless use

### DIGITAL MODELS

Digital models are equipped with a 3.2 MP USB 2 1/2 inch sensor CMOS camera. Maximum resolution is 2048 x 1536 pixels, smaller resolutions are selectable. Delivered with ImageFocus 4 for capturing of images and videos. This software also allows a full range of analysis such as measurements on still and live images and annotations on captured images. Compatible with Windows 7, 8 and 10, all 32 and 64 bits configurations. For Mac OS more basic software is available. Updates can be downloaded on our website

### PACKAGE CONTENT

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



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



● ED.1505-S

### MODELS

	Digital head	1x/3x objectives	2x/4x objectives	1x/2x/3x objectives	1x/2x/4x objectives	Pillar stand	Rack & pinion stand
ED.1302-P		•				•	
ED.1302-S		•					•
ED.1305-S	•	•					•
ED.1402-P			•			•	
ED.1402-S			•				•
ED.1405-S	•		•				•
ED.1502-S				•			•
ED.1505-S	•			•			•
ED.1802-S					•		•
ED.1805-S	•				•		•

## ACCESSORIES AND SPARE PARTS

**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

**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.9975** External 100-240 V mains adapter/ charger

**ED.4300** Aluminum transport case for EduBlue microscopes

**SL.5504** LED replacement unit for EduBlue, incident illumination

**SL.5505** LED replacement unit for EduBlue, transmitted illumination

**AE.9918** Nylon microscope bag (25 x 39 x 19 cm)

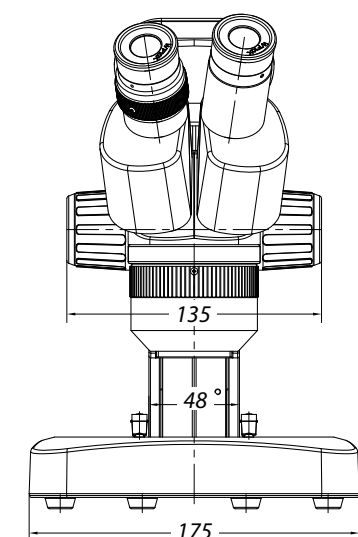
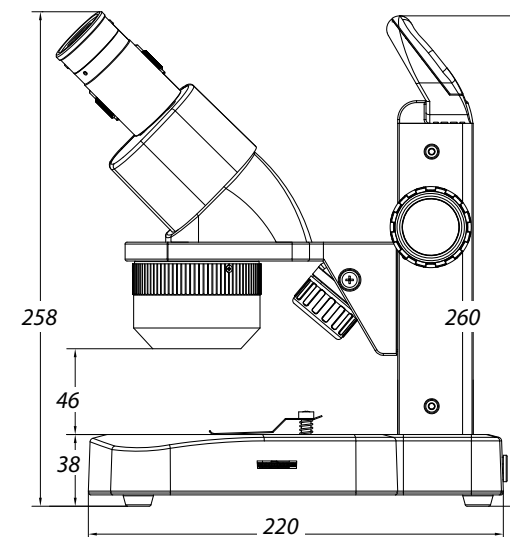
**AE.1112** Micrometer 76 x 26 mm slide, 50 mm/50 divisions

**PB.5245** Lens cleaning paper, 100 sheets per pack

**PB.5274** Isopropyl alcohol 99% (200 ml)

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

### DIMENSIONS



# STEREO MICROSCOPES



## StereoBlue

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

● SB.1903



<b>SB.1302/SB.1402</b>	
<b>Dimensions</b>	<b>Weight</b>
(h) 350 x (w) 220 x (d) 266 mm	4.0 kg
<b>SB.1302-P/SB.1402-P</b>	
<b>Dimensions</b>	<b>Weight</b>
(h) 299 x (w) 220 x (d) 266 mm	4.7 kg

For weight of other products see table 'Models'

## HIGHLIGHTS

- Designed for professional use
- Robust and sturdy
- WF 10x/20 mm eyepieces
- Dual magnifications or Zoom models
- Available in ergonomic rack & pinion, pillar and universal stands
- Double 3 W LED illumination
- Ergonomic carrying grip
- 5 years warranty



Universal stand model SB.1902-U ●

## SPECIFICATIONS

### EYEPIECES

Pair of WF 10x/20 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 beamsplitter (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 20 mm/6.6 mm or 10 mm/5.0 mm
- Working distance 100 mm

### ZOOM OBJECTIVE

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

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



- Field of view 28.5 mm to 4.4 mm
- WD 100 mm

### STAND

The rack & pinion and pillar stands of the StereoBlue are equipped with ergonomically designed 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 stand is ideal for observation of large samples or working under the microscope. Standard supplied without illumination. Suitable for e.g. ring illuminators LE.1973 and LE.1974. The stands are alloy metal casted with hardened coating

More illumination options see chapter 10 (Accessories)

**ILLUMINATION**

With 3 W transmitted and incident LED illuminators which can be used simultaneously or adjusted separately. SB.3903 and SB.3903-P models come with a built-in 30 LED ring light for reflexed illuminator and 3 W transmitted illuminator

**CAMERAS**

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

**PACKAGE CONTENT**

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



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



● SB.1302



● SB.1402-P



● SB.1902

MODELS	Binocular	Trinocular	1x/3x objective	2x/4x objective	0.7 - 4.5x zoom	Rack & pinion stand	Pillar stand	Universal stand	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.1903		•			•	•				3.7
SB.1903-P		•			•		•			4.5
SB.1903-U		•			•			•		15.5
SB.3903		•			•	•			•	3.7
SB.3903-P		•			•		•		•	4.5

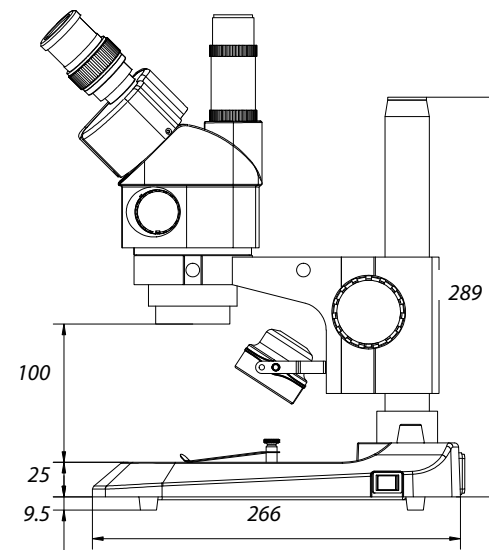
ACCESSORIES AND SPARE PARTS

- SB.6010** Pair of HWF 10x/20 mm eyepieces
- SB.6010-C** WF 10X/20 mm eyepiece with cross-hair
- SB.6010-M** WF 10X/20 mm eyepiece with micrometer scale
- SB.6015** Pair of HWF 15x/15 mm eyepieces
- SB.6015-C** WF 15X/15 mm eyepiece with cross-hair
- SB.6015-M** WF 15X/15 mm eyepiece with micrometer scale
- SB.6020** Pair of HWF 20x/10 mm eyepieces
- SB.6020-C** WF 20/10 mm eyepiece with cross-hair
- SB.6020-M** WF 20/10 mm eyepiece with micrometer scale
- SB.6099** Pair of eyecups
- SB.9850** C-mount adapter with 0.5x lens for 1/2" cameras. Only for trinocular models
- SB.9952** Stage plate transparent, Ø 60 mm
- SB.9956** Stage plate black/white, Ø 60 mm
- AE.5130** Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Need T2 adapter
- AE.5025** T2 adapter for Nikon D digital SLR cameras
- AE.5040** T2 adapter for Canon EOS digital SLR cameras

Other T2 adapters on request

- SB.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 170 mm. Only suitable for SB.1902-P, SB.1903-P, SB.1902-U and SB.1903-U
- SB.8907** Auxiliary 0.75x lens for zoom models WD 114 mm
- SB.8915** Auxiliary 1.5x lens for zoom models WD 48 mm. Not suitable for SB.3903
- SB.8950** Protection glass window for StereoBlue
- SB.9020** Universal single-arm stand with table clamp without StereoBlue holder
- SB.9090** NexiusZoom head holder
- SB.9040** Darkfield attachment for StereoBlue, only for -S and -P models
- SB.9520** Polarization kit for StereoBlue: 360° rotatable round stage with built-in polarization filter (SB.9524) + analyzer in mount to be screwed under the head (SB.9525)
- SB.9524** 360° rotatable round 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.9833** C-mount adapter with 0.33x lens for 1/3" cameras. Only for trinocular models
- AE.1112** Micrometer 76 x 26 mm slide, 50 mm/50 divisions
- PB.5245** Lens cleaning paper, 100 sheets per pack
- PB.5274** Isopropyl alcohol 99% (200 ml)
- PB.5275** Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs
- SB.9983** 3 W LED replacement unit for StereoBlue, incident illumination
- SB.9983-R** 3 W LED replacement unit for StereoBlue, transmitted illumination

**DIMENSIONS**





# NexiusZoom

The new standard in stereo microscopy



The NexiusZoom stereo microscopes of Euromex enable examining your specimen with high-performance precision and generate two- and three-dimensional images allowing observation for your highest demanding microscopy applications

These top level zoom microscopes are perfect for analyzing all kinds of material surfaces or to observe and prepare biological samples

# STEREO MICROSCOPES

NexusZoom

FEATURED



NZ.1903-S ●

## NexusZoom (EVO)

The NexusZoom and NexusZoom EVO stereo microscopes of Euromex 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 to observe and prepare biological samples

These stereo microscopes are supplied with a large choice of stands, with or without LED illumination. Ideal for a wide variety of educational and laboratories applications. With additional lenses and objectives magnifications from 3.3 up to 220x can be achieved



<b>NZ.1903-S / NZ.1703-S</b>	
<b>Dimensions</b>	<b>Weight</b>
(h) 339 x (w) 256 x (d) 311 mm	5.1 kg
<b>NZ.1903-P / NZ.1703-P</b>	
<b>Dimensions</b>	<b>Weight</b>
(h) 299 x (w) 256 x (d) 311 mm	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
- Ergonomically designed stands
- 3 W LED illuminations
- Configurations up to 220x magnification
- Large working distance (WD)
- 10 years warranty



NZ.1903-PL ●

NZ.1903-M ●

## SPECIFICATIONS

### EYEPIECES

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

### HEAD

Binocular or trinocular heads with 45° inclined tubes. Both eyepieces with ± 5 diopter adjustments. Interpupillary distance adjustable between 54 mm and 75 mm. Trinocular head is supplied with a fixed light path beamsplitter (50:50)

### OBJECTIVES

The standard NexusZoom 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 NexusZoom 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

Auxiliary lenses 0.3x, 0.5x, 0.75x, 1.5x and 2.0x are available for the standard NexusZoom and for the NexusZoom EVO

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

● NZ.8905 / NZ.8907 / NZ.8915



### POLARIZATION

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

### STAND

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

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

### STAGE

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

### ILLUMINATION

The 3 W LED illuminators operate on an internal power supply of 100-240 V. Both illuminators can be used simultaneously and the light intensities can be adjusted separately

### PACKAGE CONTENT

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



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



● NZ.9505



NZ.1902-S ● ● NZ.1902-P

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

MODELS	Binocular	Trinocular	Pillar stand	Rack & pinion stand	Universal stand	Boom stand	Articulated arm stand	Gooseneck dual LED	Mirror LED	Weight (kg)
NZ.1902-P	•		•							5.0
NZ.1902-PL	•		•					•		5.1
NZ.1902-M	•		•						•	4.9
NZ.1902-S	•			•						4.9
NZ.1902-U	•				•					15.6
NZ.1902-B	•					•				22.1
NZ.1902-BC <sup>(1)</sup>	•					•				10.5
NZ.1902-A	•						•			8.6
NZ.1902-AP <sup>(2)</sup>	•						•			20.7
NZ.1903-P		•	•							5.2
NZ.1903-PL		•	•					•		5.3
NZ.1903-M		•	•						•	5.1
NZ.1903-S		•		•						5.1
NZ.1903-U		•			•					15.7
NZ.1903-B		•				•				22.2
NZ.1903-BC <sup>(1)</sup>		•				•				10.6
NZ.1903-A		•					•			8.7
NZ.1903-AP <sup>(2)</sup>		•					•			20.8

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

MODELS	Binocular	Trinocular	Pillar stand	Rack & pinion stand	Universal stand	Boom stand	Articulated arm stand	Gooseneck dual LED	Mirror LED	Weight (kg)
NZ.1702-P	•		•							5.0
NZ.1702-PL	•		•					•		5.1
NZ.1702-M	•		•						•	4.9
NZ.1702-S	•			•						4.9
NZ.1702-U	•				•					15.6
NZ.1702-B	•					•				22.1
NZ.1702-BC <sup>(1)</sup>	•					•				10.5
NZ.1702-A	•						•			8.6
NZ.1702-AP <sup>(2)</sup>	•						•			20.7
NZ.1703-P		•	•							5.2
NZ.1703-PL		•	•					•		5.3
NZ.1703-M		•	•						•	5.1
NZ.1703-S		•		•						5.1
NZ.1703-U		•			•					15.7
NZ.1703-B		•				•				22.2
NZ.1703-BC <sup>(1)</sup>		•				•				10.6
NZ.1703-A		•					•			8.7
NZ.1703-AP <sup>(2)</sup>		•					•			20.8

<sup>(1)</sup> Boom stand model with tabletop clamp

<sup>(2)</sup> Articulated stand model with heavy desktop base plate

For magnifications tables, see chapter 5



## ACCESSORIES AND SPARE PARTS

- NZ.5302** NexiusZoom binocular head with eyepieces
  - NZ.5303** NexiusZoom trinocular head with eyepieces
  - NZ.5312** NexiusZoom EVO binocular head with eyepieces
  - NZ.5313** NexiusZoom EVO trinocular head with eyepieces
  
  - NZ.6010** Pair of HWF 10x / 22 mm eyepieces
  - NZ.6015** Pair of HWF 15x / 16 mm eyepieces
  - NZ.6020** Pair of HWF 20x / 12 mm eyepieces
  - NZ.6110** HWF 10x / 22 mm eyepiece with micrometer
  - NZ.6210** Pair of HWF 10x/23 mm eyepieces (only for -EVO)
  - NZ.6099** Pair of eyecups
  
  - NZ.8903** Auxiliary 0.3x lens for NexiusZoom. WD 278 mm. Not suitable for -S, -P -M stand models
  - NZ.8905** Auxiliary lens 0.5x. WD 165 mm. Not suitable for -S and -M stand models
  - NZ.8907** Auxiliary lens 0.75x. WD 120 mm\*
  - NZ.8915** Auxiliary lens 1.5x. WD 53 mm
  - NZ.8920** Auxiliary lens 2.0x. WD 30 mm. Not suitable for the -S stand model
  - NZ.8950** Protection glass for NexiusZoom head. Not suitable with auxiliary lenses
  
  - NZ.9010** Ergonomic rack & pinion stand with 3W transmitted and incident LED illuminators
  - NZ.9015** Ergonomic pillar stand with 3W transmitted and incident LED illuminators
  - NZ.9017** Ergonomically designed pillar stand with two 3W gooseneck type incident LED illuminations on each side and a 3W transmitted LED illumination
  - NZ.9020** Universal (single arm) stand without NexiusZoom head holder
  - NZ.9030** Boom (double arm) stand with heavy stand (without NexiusZoom head holder NZ.9090)
  - NZ.9032** Boom (double arm) stand with table clamp (without NexiusZoom head holder NZ.9090)
  - NZ.9042** Ergonomic pillar stand with rotating mirror and transmitted and incident 3W LED illumination
  - NZ.9090** NexiusZoom head holder (for NZ.9020, NZ. 9030 and NZ.9032)
  
  - NZ.9095** NexiusZoom head holder with fine coarse (for NZ.9020, NZ. 9030 and NZ. 9032)
  - NZ.9095-ADD** NexiusZoom head holder with fine coarse ADD-ON for NZ.9020, NZ. 9030 and NZ.9032. Only available with new microscopes
  - NZ.9025** Articulated arm stand with table clamp (without NexiusZoom head holder NZ.9081)
  - NZ.9027** Articulated arm stand with heavy stand (without NexiusZoom head holder NZ.9081)
  - NZ.9081** NexiusZoom head holder (for articulated arm stand NZ.9025 and NZ.9027)
  - NZ.9520** Polarization kit for NexiusZoom: 360° rotatable round stage with built-in polarization filter (NZ.9524) + analyzer in mount to be screwed under the head (NZ.9525). Not suitable with auxiliary lenses
  - NZ.9524** 360° rotatable round stage with built-in polarization filter for NexiusZoom
  - NZ.9525** 360° rotatable analyzer in mount to be screwed under the head of NexiusZoom. Not suitable for use in combination with auxiliary lenses
  - AE.5168-NZ** Heating stage with PID controller up to 50°C. Only with the purchase of a new microscope
  - NZ.9950** Standard opaque stage plate
  - NZ.9956** Black/white stage plate
  - NZ.9570** Pair of object clamps for stage
  - NZ.9572** Adjustable GEM object clamp for -P, -PL and -S stands
  - 50.876** Darkfield attachment (for -S and -P stands)
  
  - NZ.9833** C-mount adapter with 0.33x lens for 1/3" cameras (suitable for trinocular models)
  - NZ.9850** C-mount adapter with 0.5x lens for 1/2" cameras (suitable for trinocular models)
  
  - AE.5130** Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Need 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*
- \* Maximum object height for the -S stand is 2.5 cm*
- Working distances (WD) are approximate values*

## STEREO MICROSCOPES

## AP series

### AP series

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

<b>AP-1</b>	
<b>Dimensions</b>	<b>Weight</b>
(h)250 x (w)120 x (d)170 mm	1.4 kg
<b>AP-2 / AP-4</b>	
<b>Dimensions</b>	<b>Weight</b>
(h)325 x (w)120 x (d)170 mm	2.0 kg
<b>AP-5</b>	
<b>Dimensions</b>	<b>Weight</b>
((h)65/360 x (w)120 x (d)190 mm	2.5 kg
<b>AP-7 / AP-7 LED / AP-8 / AP-8 LED</b>	
<b>Dimensions</b>	<b>Weight</b>
(h)65/360 x (w)120 x (d)190 mm	2.4 kg



AP-7 (50.925) ●



## HIGHLIGHTS

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

## SPECIFICATIONS

### EYEPIECES

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

### HEAD

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

### OBJECTIVES

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

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



AP-1 (50.890) ●

### STAND

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

### ILLUMINATION

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



### CAMERAS

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

### PACKAGE CONTENT

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



● AP-2 (50.900)



● AP-4 (50.915)



● AP-5 (50.920)

### MODELS

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

## ACCESSORIES AND SPARE PARTS

- 50.805** Pair of wide field eyepieces WF 5x/22 mm
- 50.810** Pair of wide field eyepieces WF 10x/20 mm
- 50.811** Micrometer eyepiece WF 10x/20 mm, 10 mm/100
- 50.815** Pair of wide field eyepieces WF 15x/16 mm
- 50.820** Pair of wide field eyepieces WF 20x/10 mm
- 50.840** Pair of eyecups

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

- 50.831** Paired achromatic objectives 1x. WD 57 mm.
- 50.832** Paired achromatic objectives 2x. WD 80 mm.
- 50.833** Paired achromatic objectives 3x. WD 61 mm.
- 50.834** Paired achromatic objectives 4x. WD 57 mm.
- 50.836** Paired achromatic objectives 6x. WD 40 mm.
  
- 50.871** Black/white stage plate 94 mm diameter for AP-7, AP-7 LED, AP-8 and AP-8 LED models
- 50.873** Glass stage plate 94 mm diameter for AP-7, AP-7 LED, AP-8 and AP-8 LED models
- 50.874** Black/white stage plate 60 mm diameter (AP-1, 2, 3 and 4)
- 50.875** Adjustable GEM object clamp for AP series
- 50.876** Darkfield attachment 94 mm diameter for AP-7, AP-7 LED, AP-8 and AP-8 LED models
- 50.884** Spare bulb 10 W 12 V for AP series
- 50.975** External 100-240 V mains adapter
  
- AE.1112** Micrometer slide, 50 mm/50 divisions
- 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



# Digital Solutions

Education



DIGITAL MICROSCOPES • PAGE 74  
USB CAMERAS • PAGE 80  
HD CAMERAS • PAGE 86  
WiFi CAMERA • PAGE 89  
TABLET CAMERAS • PAGE 90  
CCD CAMERA • PAGE 94  
SOFTWARE • PAGE 95  
ADAPTERS • PAGE 96



# Digital Solutions

## Education

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

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



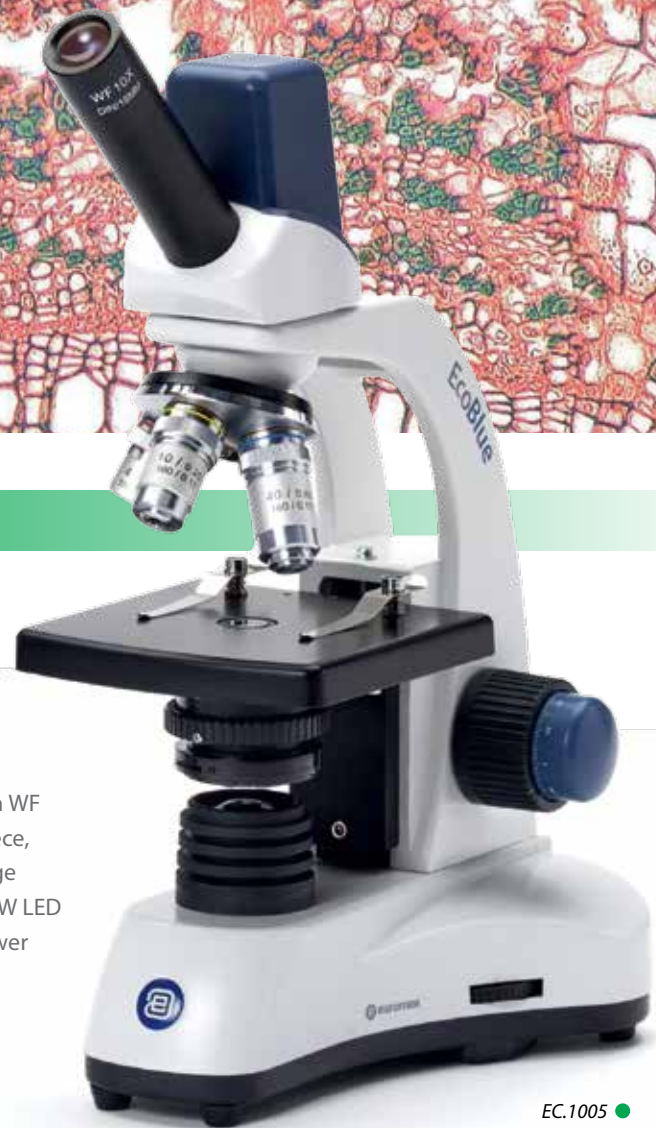
# Digital Microscopes

with integrated camera



The digital microscopes have equal functions compared to stand-alone microscopes. But since these microscopes have an integrated camera, they are offering a compact solution for viewing microscopy images, without having to add an external camera to the microscope

The included software allows the user to view live images on the computer screen or beamer. The software also enables the users to capture images, record videos and perform measurements



EC.1005 ●

**EcoBlue**

digital microscopes with built-in 3.2 MP USB-2 camera

Monocular microscopes are equipped with WF 10x/18mm eyepieces, a quadruple nosepiece, achromatic objectives, a 123 x 119 mm stage with two clamps, Abbe condenser and a 1 W LED illumination with integrated 100-240 V power supply. The EcoBlue microscopes can optionally be equipped with a 50 x 30 mm X-Y mechanical stage



EC.1105 / EC.1605	
<b>Dimensions</b>	<b>Weight</b>
(h) 355 x (w) 270 x (d) 220 mm	2.6 kg

HIGHLIGHTS

- Economical microscopes for education
- Built-in digital 3.2 MP USB-2 camera
- LED illumination
- Built-in 100-240 V power supply
- Ergonomic carrying grip
- 5 years warranty (2 years on camera)



SPECIFICATIONS

**CAMERA**

All the EcoBlue digital microscopes are provided with a 3.2 MP CMOS USB-2 camera, maximum resolution 2048 x 1536, 24 bits color depth, up to 15 frames per second. Delivered with the ImageFocus 4 software, USB-2 cable and a micrometer 1mm/100 slide

**SOFTWARE**

The capture and analysis ImageFocus 4 software allows you to save images in .jpg, .tif or .bmp formats as well as in .avi format videos. Images can be annotated and measurements can be performed on live or captured images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations. A Mac OS Light version is also available for capturing images

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

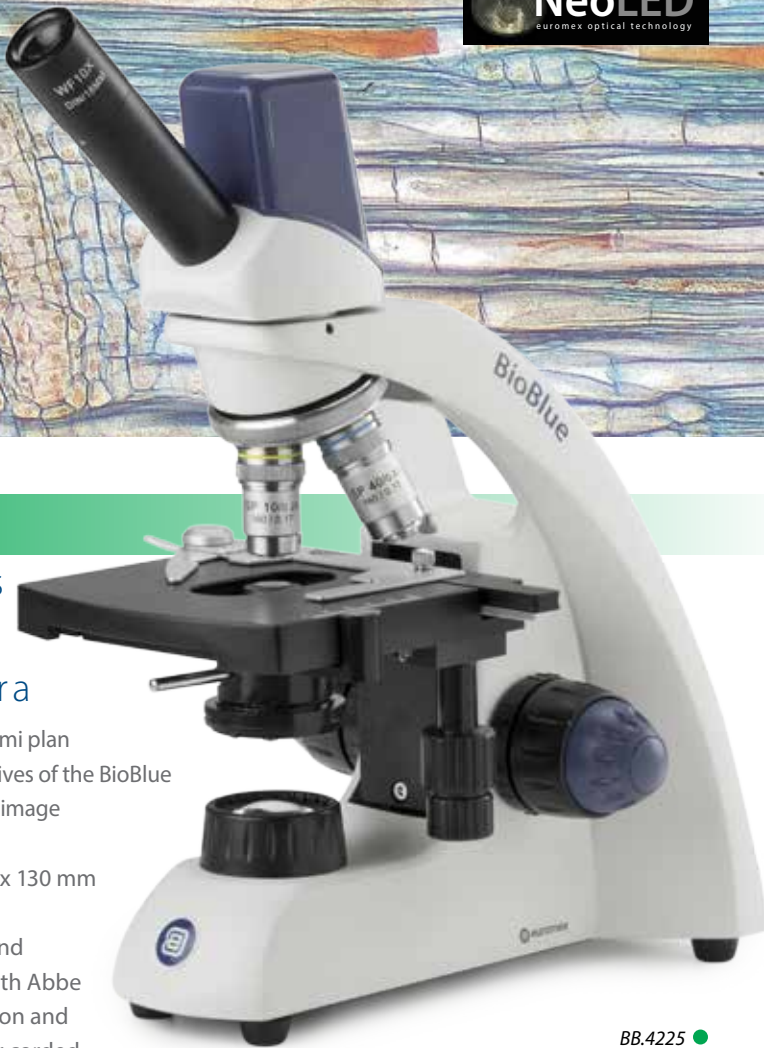
**MODELS**

	Monocular	4x, 10x, 540x objectives	S60x objective	S100x objective	LED
EC.1005	•	•			•
EC.1105	•	•		•	•
EC.1605	•	•	•		•

# DIGITAL MICROSCOPES

**BlueLine**  
MADE IN HOLLAND

**NeoLED™**  
euromex optical technology



BB.4225 ●

## BioBlue

digital microscopes  
with built-in  
3.2 MP USB-2 camera

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

The 120 x 120 mm plain stage and 130 x 130 mm stage with double layered 70 x 28 mm mechanical X-Y stage enable precise and stable positioning of the specimen. With Abbe condenser, NeoLED™ or LED illumination and with built-in rechargeable batteries for corded and cordless use



<b>BB.4225 / BB.4245 / BB.4255</b>	
<b>Dimensions</b>	<b>Weight</b>
(h) 340 x (w) 155 x (d) 230 mm	3.4 kg

<b>BB.4267 / BB.4269</b>	
<b>Dimensions</b>	<b>Weight</b>
(h) 360 x (w) 155 x (d) 230 mm	4.1 kg

## HIGHLIGHTS

- Monocular and binocular models
- Reserved quadruple nosepiece for semi plan objectives
- Built-in digital 3.2 MP USB-2 camera
- Integrated mechanical stage
- LED and NeoLED™ illumination
- Cordless operation
- 10 years warranty (2 years on camera)



● BioBlue digital (binocular head)



● BioBlue digital (monocular head)

## SPECIFICATIONS

### CAMERA

All the BioBlue digital microscopes are equipped with a 3.2 MP CMOS USB-2 camera, maximum resolution 2048 x 1536, 24 bits color depth, up to 15 frames per second. Delivered with ImageFocus 4 software, USB-2 cable and a micrometer 1mm/100 slide

### SOFTWARE

The capture and analysis ImageFocus 4 software allows to save images in .jpg, .tif or .bmp formats as well as .avi format videos. Images can be annotated and measurements can be performed in live or captured images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations. A Mac OS Light version is also available for capturing images

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

MODELS	Mono	Bino	Semi plan 4x, 10x and S40x objectives	Semi plan S60x objective	Semi plan S100x objective	Integrated X-Y stage	1 W LED	NeoLED	Weight (kg)
BB.4205	•		•				•		2.9
BB.4225	•		•			•	•		3.4
BB.4245	•		•	•		•	•		3.4
BB.4255	•		•		•	•	•		3.4
BB.4267		•	•		•	•		•	4.1
BB.4269		•	•			•		•	4.1

# DIGITAL MICROSCOPES



● ED.1505-S

## EduBlue digital microscopes with built-in 3.2 MP USB-2 camera

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

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



ED.1305-S / ED.1405-S / ED.1505-S / ED.1805-S	
<b>Dimensions</b>	<b>Weight</b>
(h) 260 x (w) 175 x (d) 220 mm	2.4 kg



● Triple magnification

## HIGHLIGHTS

- Economical binocular models
- Dual and triple magnification objectives
- Cordless operation
- Built-in digital 3.2 MP USB-2 camera
- LED illuminators
- Ergonomic carrying grip
- 5 years warranty (2 years on camera)

## SPECIFICATIONS

### CAMERA

All the EduBlue digital microscopes are provided with a 3.2 MP CMOS USB-2 camera, maximum resolution 2048 x 1536, 24 bits color depth, up to 10 frames per second. Delivered with the ImageFocus 4 software, USB-2 cable and a micrometer 1mm/100 slide

### SOFTWARE

The capture and analysis ImageFocus 4 software allows you to save images in .jpg, .tif or .bmp formats as well as in .avi format videos. Images can be annotated and measurements can be performed on live or captured images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations. A Mac OS Light version is also available for capturing images

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

### MODELS

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

# MicroscopeCameras

USB-2, USB-3 and WiFi cameras  
for microscopy



The different USB-2, USB-3 and WiFi cameras with ImageFocus capture and analysis software are the perfect solution for today's educational microscopy needs. The cameras are suitable for biological microscopes as well as stereo microscopes



## USB CAMERAS

CAMERAS FOR EDUCATION



CMEX-1

## USB CAMERAS

ADVANCED CAMERAS FOR EDUCATION

FEATURED



CMEX-18 Pro

### CMEX USB-2 cameras with CMOS sensor

The CMEX-1, CMEX-3 and CMEX-5 are equipped with a CMOS sensor with 10 bits grayscale conversion and a 24 bits color rendering. The CMEX cameras are equipped with USB-2 data interface and supplied with ImageFocus 4 software

Besides capturing images and videos, the software allows measurements on still and live images and annotations on captured images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations  
A Mac OS Light version is also available for capturing images.  
PC requirements: Intel Core2 2.8 GHz or higher or equivalent, 2 GB memory, USB-3 port, 17 inch display

MODELS	Number of pixels (MP)	Sensor	Sensor size (inches)	Pixels size (µm)	Resolutions	Max. frames (p/sec)	Grayscale conversion	Color rendering	Signal/ Noise(db)	Dynamic (db)	Sensibility V/lux-sec (at 550 nm)	Product number
CMEX-1	1.3	CMOS	1/2.5"	2.2x2.2	1272x952	15	10 bits	24 bits	55	72	1.3	DC.1300c
					632x472	30						
CMEX-3	3.2	CMOS	1/2"	3.2x3.2	2048 x 1536	10	10 bits	24 bits	44	72	1.3	DC.3000c
					1024 x 768	25						
					640 x 480	40						
CMEX-5	5.0	CMOS	1/2.5"	2.2x2.2	2592x1944	5	10 bits	24 bits	42	65	1.3	DC.5000c
					1280x960	21						
					1024x768	25						
				640x480	38							

The CMEX cameras are supplied with USB-2 cable, 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscopes, 1mm/100 (10µm/division) calibration slide. The CMEX-1 (DC.1300c) camera is supplied with a 0.35x C-mount objective, the CMEX-3 with a 0.5x C-mount objective and the CMEX-5 with a 0.45x C-mount objective

### Advanced CMEX USB-3 cameras with CMOS sensor

The CMEX-3 Pro, -5 Pro, -10 Pro and -18 Pro cameras are equipped with a 3, 5, 10 or 18 MP CMOS sensor with 12 bits grayscale conversion and a 24 bits color rendering. These cameras are equipped with a USB-3 data interface enabling fast frame rate and are supplied with ImageFocus Alpha software

Besides capturing images and videos, the software allows measurements on still and live images and annotations on captured images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations. A 2 GB RAM 2.8 GHz computer and 17 inch display is recommended. A Mac OS Light version is also available for capturing images

MODELS	Sensor	Sensor size (inch)	Pixels size (µm)	Resolutions	Max. frames (p/sec)	Grayscale conversion	Color rendering	Signal/ Noise(db)	Dynamic (db)	Sensibility V/lux-sec	Product number
CMEX-3 Pro	CMOS	1/3"	2.2x2.2	2048x1534	28	12 bits	24 bits	39	100	1.9	DC.3000p
				1024x770	53						
CMEX-5 Pro	CMOS	1/2.5"	2.2x2.2	2560x1922	14	12 bits	24 bits	39	68.	1.76	DC.5000p
				1270x960	39						
				640x480	100						
CMEX-10 Pro	CMOS	1/2.3"	1.67x1.67	3584x2746	8	12 bits	24 bits	35.5	63.5	0.31	DC.10000p
				1792x1372	25						
CMEX-18 Pro	CMOS	1/2.3"	1.25x1.25	4912x3684	6	12 bits	24 bits	42	65	1.3	DC.18000p
				2456x1842	18						
				1228x922	32						

The CMEX-3 Pro, -5 Pro, -10 Pro and -18 Pro cameras are supplied with USB-3 cable, 30.0 and 30.5 mm adapters to use with stereo microscopes, 1mm/100 (10µm/division) calibration slide. The CMEX-5 Pro, -10 Pro and -18 Pro are supplied with a 0.5x C-mount objective. The CMEX-3 Pro is supplied with a 0.37x C-mount objective

# USB CAMERAS

SCIENTIFIC GRADE CAMERAS FOR EDUCATION

FEATURED

COOLED CAMERAS FOR EDUCATION

3 EDUCATION DIGITAL SOLUTIONS



● sCMEX

## sCMEX USB-3 cameras

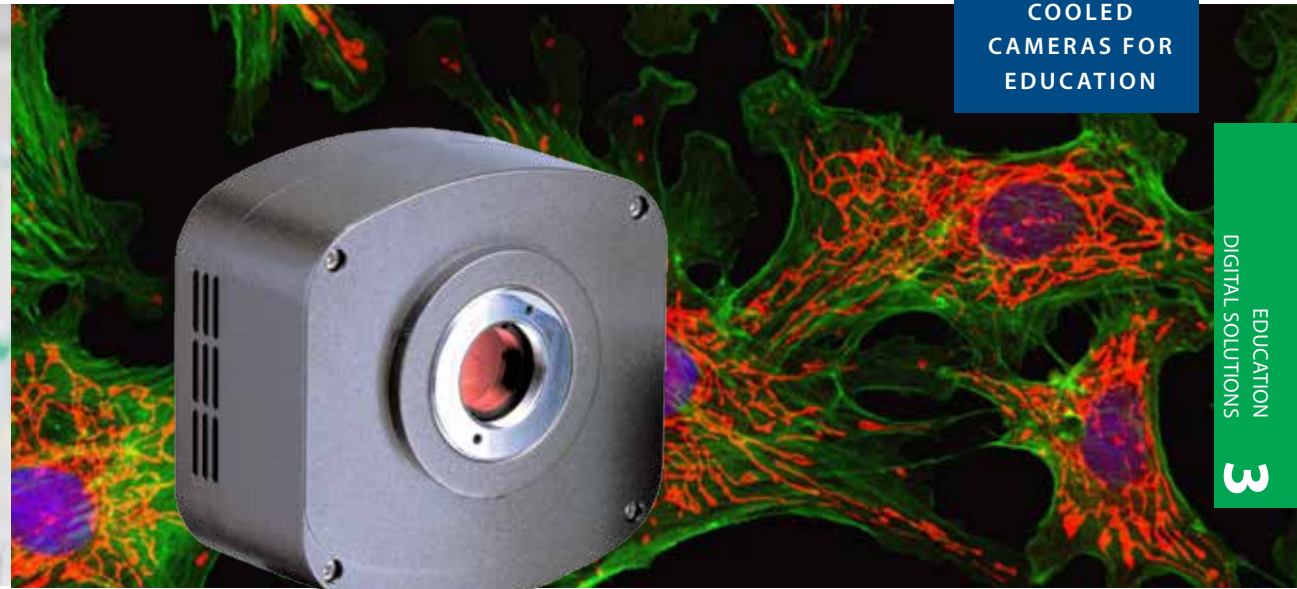
with Scientific grade sCMOS sensor

The sCMEX-3, sCMEX-6 and sCMEX-20 cameras are equipped with a scientific grade back illuminated sCMOS sensor with 16 bits grayscale conversion and an outstanding 36 bits color rendering. Suitable for brightfield, darkfield and fluorescence. The sCMEX cameras are equipped with a USB-3 data interface and supplied with ImageFocus Alpha software

Besides capturing images and videos, the software allows measurements on still and live images and annotations on captured images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations  
 PC requirements: Intel Core2 2.8 GHz or higher or equivalent, 2 GB memory, USB-3 port, 17 inch display

MODELS	Number of pixels (MP)	Sensor	Sensor size (inches)	Pixels size (µm)	Resolutions	Max. frames (p/sec)	Grayscale conversion	Color rendering	Sensibility V/lux-sec	Product number
sCMEX- 3	3.1	sCMOS	1/2.8"	2.5x2.5	2048x1536	50	16 bits	36 bits	0.15	DC.3000s
					1920x1080	58				
sCMEX- 6	6.3	sCMOS	1/1.8"	2.5x2.5	3072 x 2048	30	16 bits	36 bits	0.15	DC.6000s
					3072 x 2048	38				
sCMEX-20	20	sCMOS	1"	2.4x2.4	5440x3648	15	16 bits	36 bits	0.21	DC.20000s
					2736x1824	50	16 bits	0.21		
					1824x1246	60	16 bits	0.21		

The sCMEX cameras are supplied in a carton box with USB-2 cable, 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscopes, 1mm/100 (10µm/division) calibration slide. The DC.3000s is supplied with a 0.37x objective, the DC.6000s with a 0.5x objective and the DC.20000s is supplied with a 1.0x adapter



● DC.5000i

## Euromex 5.0 MP camera

CCD cooled color

The Euromex 2/3 inch CCD Peltier cooled camera is equipped with a Peltier cooling element that allows the camera to be suitable for fluorescence applications. The camera has a USB-2 interface for connection with a computer and is supplied with ImageFocus 4 software

Besides capturing images and videos, this software allows measurements on still and live images and annotations on captured images. The software has specific functions for fluorescence such as combining captured fluorescence images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations. A Mac OS Light version is also available for capturing images

MODEL	Number of pixels (MP)	Sensor	Sensor size (inch)	Pixels size (µm)	Resolutions	Max. frames (p/sec)	Grayscale conversion	Color rendering	Signal/ Noise(db)	Dynamic (db)	Sensibility V/lux-sec	Product number
CCD cooled	5.0	CCD	2/3"	3.4 x 3.4	2580 x 1944 1280 x 932	3 12	16 bits	36 bits	55	74	0.5	DC.5000i

The Euromex CCD cooled camera (DC.5000i) is supplied in an aluminum box and with USB-2 cable, 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscopes, 1mm/100 (10µm/division) calibration slide and external 5 Vdc/4 A power supply

The Euromex CCD cooled camera (DC.5000i) is equipped with a female C-mount thread and can be mounted directly on microscopes with a C-mount adapter. A 1x C-mount adapter is recommended, see adapter guide

# HD AND HD-AUTOFOCUS CAMERAS

HIGH DEFINITION  
CAMERAS  
FOR EDUCATION

FEATURED



## High definition HD1080p

and 720p CMOS color cameras with HDMI and USB-2 interfaces

The Euromex HD-Ultra, HD-Lite, HD-Mini and HD-Autofocus cameras offer the perfect solution to modern microscopy where real-time images are needed. These HD image quality cameras can be used with biological, metallurgical or stereo microscopes

The cameras are equipped with high sensitive sensors for low and intense light conditions and are also suitable for coaxial illumination and machine vision applications. The real-time images generated with this camera provide excellent color rendering with frame speeds up to 60 fps

### STAND-ALONE MODE

To use these cameras you do not need a computer or have any computer knowledge. Most camera settings are done automatically and therefore these cameras are very user-friendly. This results in faster, more flexible and compact working conditions. Simply connect the camera to a high

definition 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 <sup>(1)</sup> to be saved on the integrated SD memory card

With the HD-Ultra, HD-Lite and HD-Autofocus cameras, the captured images or recorded video's (1) can be very easily reviewed or replayed on the HD screen. The HD-Ultra even offers a full range of measuring functions on live and captured images. The HD-Autofocus offers measuring functions on live image only

<sup>(1)</sup> video function only available with HD-Ultra and HD-Lite cameras

### COMPUTER CONTROLLED MODE

Users who want more camera controls and more functions can also connect the camera to a computer and benefit from the extensive functions of the Euromex ImageFocus 4 software. It runs on Windows 7, 8 and 10, both 32 and 64 bits

● VC.3036

## HIGHLIGHTS

- HD 1080p or 720p high definition color cameras
- Real-time images directly on TV, monitor or beamer
- Stand-alone or computer controlled mode
- Built-in mouse-driven software
- C-mount interface
- HDMI, USB-2 and SD memory card
- Autofocus model available
- Compatible with ImageFocus 4 software



● Back panel of VC.3036

Euromex supplies free software updates on [www.euromex.com](http://www.euromex.com). Besides extended camera settings, the software can save images in JPG, TIFF or BMP formats and record videos in .avi format on the hard disk of the computer. The software offers different measurement functions on live and captured

images and also full control over the camera parameters. Specific functions for fluorescence, such as histogram adjustments and combining captured fluorescence images, are also available with the ImageFocus 4 software

### MODELS

	HD-Ultra	HD-Lite	HD-Mini	HD-Autofocus
<b>Sensor</b>	Sony sensor	Aptina sensor	Aptina sensor	Sony sensor
<b>Format</b>	1/2.8", HDTV 1080p (50/60 Hz)	1/2.5", HDTV 1080p (50/60 Hz)	1/3", HDTV 720p (50/60 Hz)	1/1.9", HDTV 1080p (50/60Hz)
<b>Pixels</b>	3264 x 1836 (capture mode), 1920 x 1080 pixels (live view), HDMI 60 fps USB 30 fps	2592 x 1944 pixels (capture mode), 1920 x 1080 pixels (live view), HDMI 15 fps, USB 15fps	1280 x 720 pixels (capture mode), 1280 x 720 pixels (live view), 30 fps	1920 x 1080 pixels, HDMI, 60 fps
<b>Video</b>	1080p pixels video recording mode	1080p pixels video recording mode		1080p pixels video recording mode
<b>Scan mode</b>	Progressive scan	Progressive scan	Progressive scan	Progressive scan
<b>Noise</b>	3D Noise Reduction function	3D Noise Reduction function	Standard noise reduction	Standard noise reduction
<b>Color rendering (bits)</b>	36	24	24	24
<b>Signal/Noise(db)</b>	55	40.5	44	50
<b>Dynamic (db)</b>	69	60	85	65
<b>Interfaces</b>	Digital HDMI, USB 2	Digital HDMI, USB 2	Digital HDMI	Digital HDMI
<b>Storage</b>	High speed 8 GB SD memory card or to USB-2	High speed 4 GB SD memory card or to USB-2	High speed 4 GB SD memory card	High speed 4 GB SD memory card
<b>Camera buttons</b>	On/Off	On/Off		On/off
<b>Mounting</b>	C-mount interface	C-mount interface	C-mount interface	C-mount interface
<b>Power supply</b>	External mains adapter 100-240 Vac to 12Vdc/2A	External mains adapter 100-240 Vac to 12Vdc/2A	External mains adapter 100-240 Vac to 12Vdc/1A	External mains adapter 100-240 Vac to 12Vdc/2A
<b>Operation</b>	0 – 60° C, 45-85 % humidity	0 – 60° C, 45-85 % humidity	-10 – 40° C, 30-80 % humidity	-10-40°C, 45-85% humidity
<b>Storage temperature</b>	-20 to 70° Celsius	-20 to 70° Celsius	-20 to 60° Celsius	-20°C to 60° Celsius
<b>Product number</b>	<b>VC.3036</b>	<b>VC.3031</b>	<b>VC.3020</b>	<b>VC.3034</b>

## PACKAGE CONTENT

MODELS	HD-Ultra	HD-Lite	HD-Mini	HD-Autofocus
Software	ImageFocus 4	ImageFocus 4		
Languages	6 <sup>(1)</sup>	6 <sup>(1)</sup>	English	English
Compatible	Win 7, 8 and 10	Win 7, 8 and 10		
C-mount with objective	0.37x	0.45x	0.37x	0.5x
HDMI & USB cable	•	•	•	•
30 and 30.5 mm conversion adapters (stereomicroscopes)	•	•	•	•
SD card	8 GB	4 GB	4 GB	4 GB
Caibration 10mm/100 slide	•	•	•	•
External power netadapter	12V 2A	12V 2A	12V 1A	12V 1A
Dimensions (wxdxh)	80 x 70 x 90	80 x 70 x 90	50 x 50 x 60	80 x 65 x 80
Weight (grams)	440	280	150	500

<sup>(1)</sup> One language can be selected during initial installation of the ImageFocus 4 software: English, German, French, Dutch, Spanish and Russian

## BUILT-IN SOFTWARE FEATURES

MODELS	HD-Ultra	HD-Lite	HD-Mini	HD-Autofocus
Capture images	JPEG 3261x1840 pixels	JPEG 2592x1944 pixels	JPEG 2592x1944 pixels	JPEG 1920x1080 pixels
Video recording	AVI 1920x1080 pixels	AVI 1920x1080 pixels	no	ASF 1920x1080 pixels
Browse saved images	•	•	no	•
Browse saved video's	•	•		
SD card storage	8 GB	4 GB	4 GB	4 GB
Mouse driven	•	•	•	•
Auto Exposure	•	•	•	•
Exposure time	0.001s - 10 s	0.001s - 10 s	0.2 - 2000 ms	0.06 - 918 ms
Gain	•	•	•	•
RGB & white balance	•	•	•	•
Gamma	•	•	•	•
Sharpness	•	•	•	•
Noise reduction	3D algorithm	3D algorithm	Standard	Standard
Saturation & contrast	•	•	•	•
Horiz. & vert. flip	•	•	•	•
Grids	cross and multi grid	multi grid	multi grid	multi grid
Autofocus				•
Compare function	•	•		
Measurement functions	live and captured images	no	no	live image only
Calibration table	•			•
Line & free curve	•			•
Polygon & rectangle	•			•
Angle	•			•
Circle 3 points	•			•
Circle radius	•			•
Export function	CSV, Txt			CSV



● CMEX-WiFi 5

## CMEX-WiFi 5.0 MP

### digital WiFi camera with 1/2.5 inch CMOS sensor

The CMEX-WiFi 5 camera is equipped with a 5.0 MP CMOS sensor with 12 bits grayscale conversion and a 24 bits color rendering

The CMEX camera streams H.264 encoded high resolution images simultaneously to several WiFi enabled smartphones, tablets or computers with iOS, Android or Windows operating systems

Power supply through USB charger or computer USB port. Standard C-mount mounting



Adding a WiFi camera to your microscope is ideal for wireless sharing/viewing of microscope images. Ideal for demonstrations where remote viewing is needed

Apps for Android for this camera are supplied on cd or can be downloaded from the App store (free of charge). ImageFocus Alpha software can be used for Windows-based devices and WiFi connected PC's

The camera is powered by the included USB charger or a computers USB port. Standard 0.45x 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-sec	Product number
CMEX-WiFi 5	CMOS	1/2.5"	2.2 x 2.2	1280 x 720	12 bits	24 bits	43	61	1.0	DC. 5000-Wifi

The CMEX-WiFi 5 camera is supplied in a box with USB-2 cable, 30.0 and 30.5 mm adapters to use with stereo microscopes, and a 0.45x C-mount objective

TABLET CAMERAS



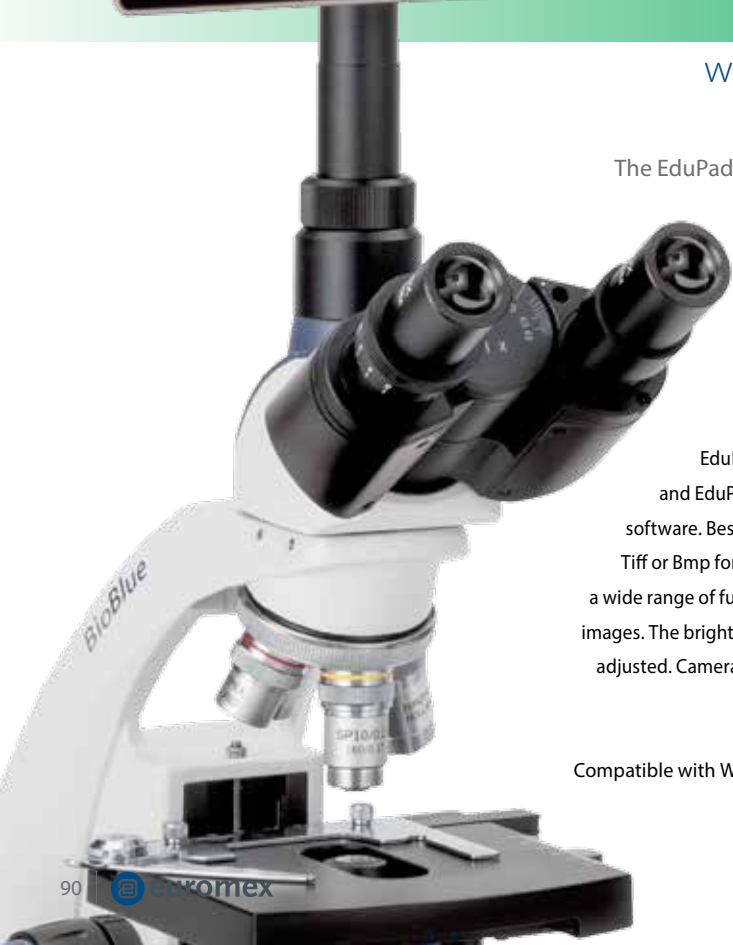
EduPad tablet with microscope camera

The EduPad tablet with a 8.9 inch display can be supplied with a 1.3 MP, 3.2 MP, 5 MP or a WiFi camera. Together with the ImageFocus 4 or ImageFocus Alpha software it offers a state-of-the-art solution for modern microscopy for education

SOFTWARE

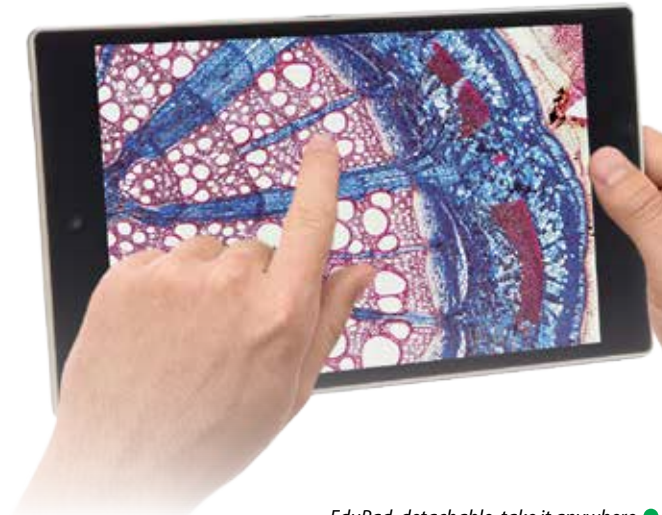
EduPad USB camera is supplied with ImageFocus 4 software and EduPad with WiFi camera is supplied with ImageFocus Alpha software. Besides live imaging, the software captures images in Jpeg, Tiff or Bmp formats or video recording in Avi format. The software has a wide range of functions and measurements can be done on still and live images. The brightness, contrast and saturation of captured images can be adjusted. Camera parameters for exposure time, white balance and color control are easily accessible

Compatible with Windows 7, 8 and 10, both 32 and 64 bits configuration. Only suitable for trinocular models



HIGHLIGHTS

- 8" Tablet with microscope camera
- 1280 x 800 pixels touch screen
- Full Windows 10 Home
- ImageFocus 4 capture software for PC
- ImageFocus Alpha for WiFi-version
- Tablet can be fully detached from camera



EduPad, detachable, take it anywhere ●

SPECIFICATIONS

Processor	Quad Core 1.33 GHz with HD graphics processor
Screen	8 inch (22.6cm), 1280 x 800 touchscreen, 16:10, LED backlight
Memory	2 GB DDR3 RAM
Storage	16 GB Flash HDD, Micro SD/SDHC up to 64 GB
Webcam	Front and rear cameras
Connectivity	Micro USB 2.0, WiFi 802.11 b/g/n and Bluetooth 4.0
Audio	Stereo with 3.5 mm audio jack and built-in microphone and speaker
Battery	Lithium
Housing	214 x 128 x 9.8 mm
Weight	410 grams
System	Windows 10 Home

Specifications can be changed by Euromex microscopen bv without notice

MODELS	Camera (MP)	Sensor size	Resolution	Pixels size (µm)	ADC	Color rendering	Signal/ Noise(db)	Dynamic (db)	Sensitivity V/lux-sec	Interface	Product number
EduPad-1	1.3	1/2.5"	1272x952	2.2 x 2.2	10 bits	24 bits	55 db	72 db	1.3	USB-2	EP.1300c
EduPad-3	3.2	1/2"	632x472	3.2 x 3.2	10 bits	24 bits	44 db	72 db	1.3	USB-2	EP.3000c
EduPad-5	5	1/2.5"	2592x1944	2.2 x 2.2	10 bits	24 bits	42 db	65 db	1.3	USB-2	EP.5000c
EduPad-WiFi	5	1/2.5"	1280x720	2.2 x 2.2	12 bits	24 bits	43 db	61 db	1	WiFi	EP5000-WiFi

All EduPad models are supplied with a C-mount objective that fits the standard 23.2 mm trinocular tubes  
Only suitable for straight photo tubes

TABLET CAMERAS



ProPad tablet

with microscope camera and keyboard-docking station

The ProPad Full HD (1280x800) display reveals bright colors and crisp, microscopic images. The ProPad consists of a high quality microscope camera system and a fully detachable tablet running the latest ImageFocus version. You can take it anywhere

Together with the included attachable keyboard, you can use it as a microscope imaging system, tablet and laptop. The keyboard connects to the tablet using magnets to provide a latchless docking solution that lets you smoothly remove and re-attach the keyboard to the ProPad

SOFTWARE

ProPad-1, ProPad-3 and ProPad-5 are supplied with ImageFocus 4. ProPad-WiFi is supplied with ImageFocus Alpha software for image and video capturing and measuring on a Windows-based PC. On IOS and Android systems the WiFi camera can be operated through the app. A Mac OS Light version is also available for capturing images



HIGHLIGHTS

- 10.1" Tablet with microscope camera
- 1280 x 800 pixels HD touch screen
- Windows 10 Home
- ImageFocus 4 capture software for PC
- ImageFocus Alpha for WiFi enabled PC and Android devices
- Tablet can be fully detached from camera
- Including keyboard
- The snap-on keyboard uses a magnetic docking system



ProPad and keyboard-docking station

SPECIFICATIONS

Processor	Quad Core 1.92 GHz with HD graphics processor
Screen	10.1 inch, 1280 x 800 (WGXA) touchscreen, 16:10, LED backlight
Memory	2 GB DDR RAM, 2 MB cache
Storage	32 GB Flash HDD, micro SD/SDHC up to 64 GB
Webcam	2 MP, 1600 x 1200 pixels front and rear cameras
Connectivity	Micro USB 2.0, WiFi 802.11 b/g/n and Bluetooth 4.0
Audio	Stereo with 3.5 mm audio jack, internal microphone and speaker
Battery	Lithium
Housing	246.9 x 174.2 x 9.4 mm (tablet), 246.9 x 174.2 x 8.2 mm (keyboard)
Weight	588 grams (tablet), 551 grams (keyboard)
System	Windows 10 Home
Supplied with	Keyboard-docking station

Specifications can be changed by Euromex microscopen bv without prior notice

MODELS	Camera (MP)	Sensor size	Resolution	Pixels size (µm)	ADC	Color rendering	Signal/ Noise(db)	Dynamic (db)	Sensibility V/lux-sec	Interface	Product number
ProPad-1	1.3	1/2.5"	1272x952	2.2x2.2	10 bits	24 bits	55 db	72 db	1.3	USB-2	PP.1300c
ProPad-3	3.2	1/2"	632x472	3.2 x3.2	10 bits	24 bits	44 db	72 db	1.3	USB-2	PP.3000c
ProPad-5	5	1/2.5"	2592x1944	2.2 x 2.2	10 bits	24 bits	42 db	65 db	1.3	USB-2	PP.5000c
ProPad-WiFi	5	1/2.5"	2592x1944	2.2 x 2.2	12 bits	24 bits	43 db	61 db	1	WiFi	PP.5000-WiFi

# CCD CAMERA

CAMERA FOR SCIENCE AND EDUCATION

FREE UPDATES AVAILABLE ON EUROMEX.COM

3 EDUCATION DIGITAL SOLUTIONS



## CCD color camera

580 lines with composite and S-video output

● VC.3032

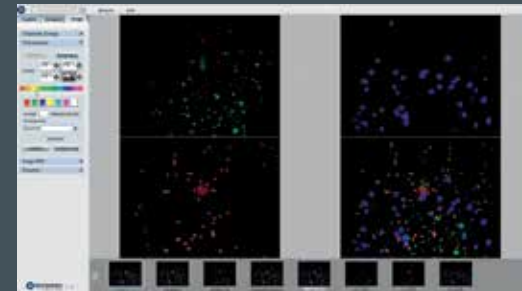
The Euromex analog camera VC.3032 offers the perfect solution to modern microscopy for industry and laboratories where real-time images are needed. These high resolution cameras can be used for either biological or stereo microscopes. The cameras are equipped with very sensitive sensors with brightfield and darkfield applications and suitable for phase contrast and coaxial illumination

### REALTIME

The real-time images generated with this camera provide extremely well true-to-live colors without any delay. Most camera settings are done automatically, a feature that makes the cameras ideal for real-time inspection, education and demonstrations. Connection is done using BNC (composite), SCART or S-video for connection to TV, monitors or beamers

MODEL	Sensor	Sensor size (inches)	Number of pixels	Number of image lines	White balance	Sensitivity	Output	Connection
VC.3032	CCD	1/2"	473.280	580	auto/manual	auto/manual	Composite/S-Video	C-mount

# SOFTWARE



## ImageFocus 4 software

The software is compatible with all mentioned USB-2 cameras Besides live imaging the software captures images in Jpeg, Tiff or Bmp formats or video recording in Avi format

ImageFocus4 has a wide range of functions:

- Measurements can be done on still and live image
- The brightness, contrast and saturation of captured images can be adjusted
- Camera parameters for exposure time, white balance and color control are easily accessible
- The software also has specific functions for fluorescence such as combining captured fluorescence images
- Compatible with Windows 7, 8 and 10, both 32 and 64 bits configuration. A Mac OS Light version is also available for capturing images\*
- PC requirements: Intel Core2 2.8 GHz or higher or equivalent, 2GB memory or more, 17" screen

\* Mac version not available for VC Series

IMAGE FOCUS 4	
DC.1300c	DC.5000i
DC.3000c	VC.3031
DC.5000c	VC.3036

## ImageFocus Alpha software

The ImageFocus Alpha software is compatible with the mentioned USB-3 and WiFi cameras Besides live imaging the software captures images in several formats such as Jpeg, Tiff or Bmp or video recording in Avi format

ImageFocus Alpha has a wide range of functions:

- Measuring, segmentation & counting, stichting of images, extended depth of focus, stacking etc
- The brightness, contrast and saturation of captured images can be adjusted
- Camera parameters for exposure time, white balance and color control are easily accessible
- The software also has specific functions for fluorescence such as combining captured fluorescence images
- Compatible with Windows 7, 8 and 10, both 32 and 64 bits configuration. A Mac OS Light version is also available for capturing images
- PC requirements: Intel Core2 2.8 GHz or higher or equivalent, 2GB memory or more, 17" screen

IMAGE FOCUS ALPHA	
DC.3000-Pro	DC.5000-WiFi
DC.5000-Pro	DC.3000s
DC.10000-Pro	DC.6000s
DC.18000-Pro	DC.20000s

3 EDUCATION DIGITAL SOLUTIONS

# ADAPTERS

FOR ALL  
MICROSCOPE  
CAMERAS



OX.9850 ●



## Adapter Guide

### Microscope and camera

Most Euromex cameras are supplied with (a) standard plug & play adapter(s), which means that it can be connected to any Euromex microscope, except for the Oxion and Oxion Inverso series.

These microscopes need an additional adapter, see next page.

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

MODELS	1/3 inch camera	1/2 inch camera	2/3 inch camera	1 inch camera
Leica <sup>(1)</sup>	AE.9835-L (0.35x)	AE.9855-L (0.55x)	AE.9870-L (0.70x)	AE.9810-L (1x)
Olympus <sup>(2)</sup>	AE.9835-O (0.35x)	AE.9855-O (0.55x)	AE.9863-O (0.63x)	AE.9810-O (1x)
Zeiss <sup>(3)</sup>	AE.9835-Z (0.35x)	AE.9855-Z (0.55x)	AE.9870-Z (0.70x)	AE.9810-Z (1x)
Nikon <sup>(4)</sup>	AE.9835-N (0.35x)	AE.9855-N (0.55x)	AE.9870-N (0.70x)	AE.9810-N (1x)

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

<sup>(2)</sup> Olympus CX, CX2, BX, BX2, IX, MX, GX, SZX, STM, 35 mm to 25.4 mm C-mount, anodized aluminum

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

<sup>(4)</sup> Nikon E100, E200, 50i, 55i, 80i, 90i, Ni series, Ti Series, SMZ800, SMZ1000, SMZ15000, 38 mm to 25.4 mm C-mount, stainless steel



AE.9835-O ●

### STANDARD PLUG & PLAY

C-mount adapters for standard  $\varnothing$  23.2 mm tube

- DC.1321** C-mount adapter without objective, 1x magnification
- DC.1327** C-mount adapter with 0.75x objective for 2/3" camera
- DC.1324** C-mount adapter with 0.45x objective for 1/2" camera
- DC.1326** C-mount adapter with 0.35x objective for 1/3" camera
- DC.1353** C-mount adapter with 0.37x objective, fixed focal length and short barrel<sup>(1)</sup>. For 1/3" camera
- DC.1355** C-mount adapter with 0.50x objective, fixed focal length and short barrel<sup>(1)</sup>. For 1/2" camera
- DC.1357** C-mount adapter with 0.75x objective, fixed focal length and short barrel<sup>(1)</sup>. For 2/3" camera
- DC.1359** C-mount adapter 1.0x, for 1" camera
- DC.1330** 30 mm to 23.2 mm conversion adapters
- DC.1335** 30.5 mm to 23.2 mm conversion adapters

<sup>(1)</sup> for increased light efficiency



● DC.1555



● DC.1330 / DC.1335



● DC.1324



● AE.5130



● AE.5120

### PHOTO PORT ADAPTERS

Suitable for Euromex microscopes with a photo port such as Oxion, NexiusZoom and StereoBlue

- 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

### DIGITAL SLR ADAPTERS

Digital single lens reflex camera with a APS-C sensor can be mounted on a standard 23.2 mm trinocular tube  
Choose the universal DC.5130 adapter with built-in 2x objective, together with a brand-specific T-2 adapter

- AE.5130** Universal SLR camera adapter for 23.2 mm tubus with built-in 2x magnification lens. Needs T2 adapter
- AE.5120** Standard 23.2 mm diameter tube for Oxion photo port (revision 2)
- 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



# Accessories

for microscopy



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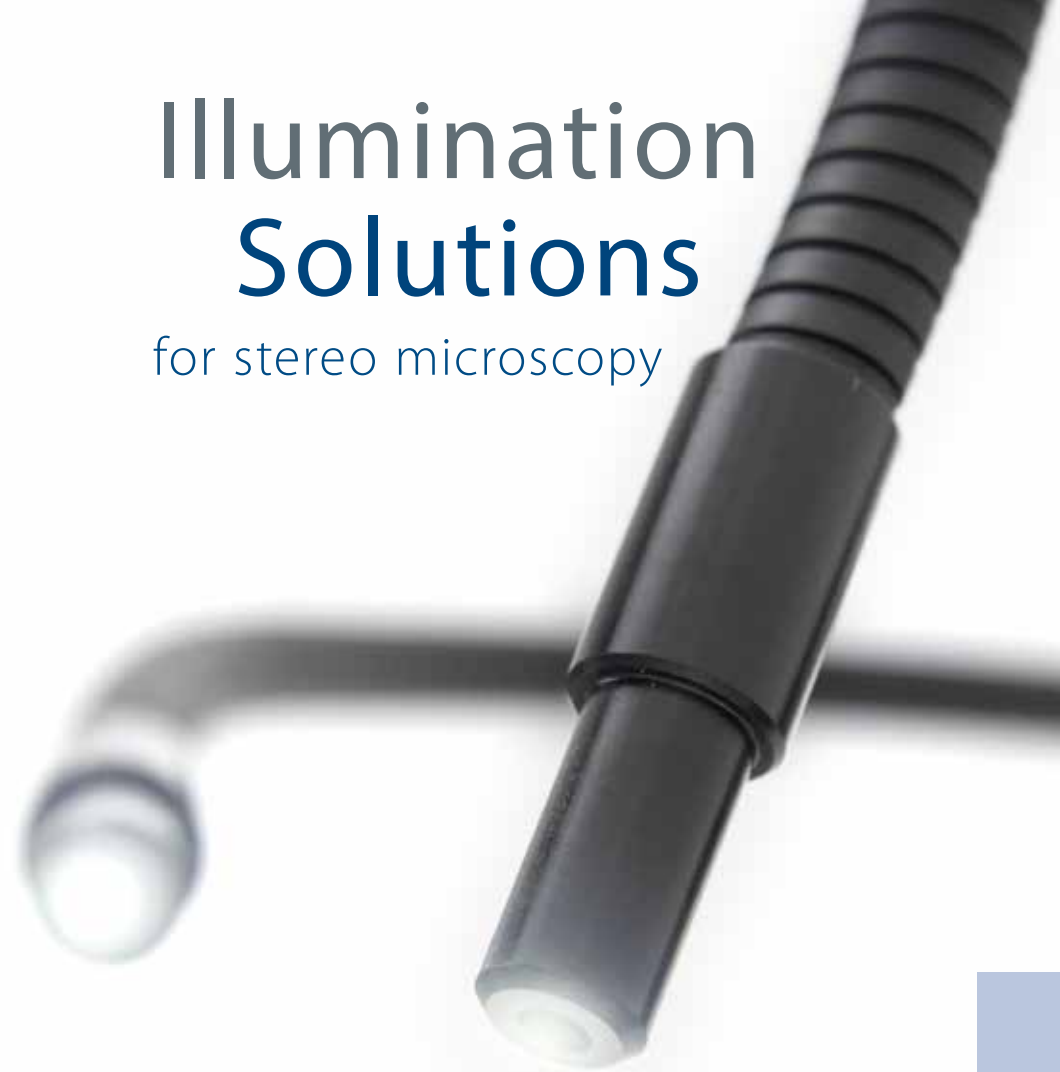


# Accessories

for microscopy

Euromex offers a solution for all microscopy related accessories needed during microscopy sessions. From dissection instruments to stains, cold light sources to LED ring light illuminators, Euromex can provide a wide selection of product accessories

Extend the life of your microscope(s) with our dedicated tools to clean and maintain the mechanical and optical parts



# Illumination Solutions

for stereo microscopy

For stereo microscopes choosing the right illumination is essential to obtain a perfect image with maximum resolution. LED light sources have a much longer lifetime, 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 kind of applications in industry, Life Sciences and Materials Sciences

## ILLUMINATION SOLUTIONS

The right light source solution can enhance and reveal the details you want to examine



## Multifunctional 150 W halogen or 30 W PowerLED cold light source

A powerful multifunctional 150 W halogen (LE.5211) and 30 W PowerLED cold light source is ideal for the advanced requirements of numerous applications in Life and Materials Science. The intensity is adjustable and has a built-in forced air cooling. The LE.5211 and LE.5211-LED light sources require a light fiber conductor such as the single LE.5213, dual LE.5214, triple LE.5215 or the LE.5239 or LE.5240 ring light fiber conductors

The LE.5213, LE.5214 and LE.5215 light conductors can be equipped with a lens holder (LE.5222) and a focusing lens (LE.5224)



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

<b>Power</b>	150 W halogen	30 W PowerLED (equivalent to 120 W halogen)
<b>Luminous flux</b>	21,000 lux max <sup>1)</sup>	30,000 lux max. <sup>1)</sup>
<b>Color temperature</b>	3,000 K	6,500 K
<b>Operating voltage</b>	100 and 240 V AC / 12 V DC (50/60 Hz)	100-240 V AC / 12 V DC (50/60 Hz)
<b>Dimensions</b>	(h) 150 x (w) 150 x (d) 230 mm	(h) 150 x (w) 150 x (d) 230 mm
<b>Weight</b>	2.8 kg	3.9 kg
<b>Model</b>	<b>LE.5211</b>	<b>LE.5211-LED</b>

<sup>1)</sup> with LE.5214 dual arm light conductor

## Multifunctional 100 W halogen cold light source

This popular multifunctional cold light source contains a 100 W halogen light source. The intensity is adjustable and it has a built-in forced air cooling. The LE.5210 light source requires a light fiber conductor such as the single LE.5213, dual LE.5214, triple LE.5215 or the LE.5239 or LE.5240 ring light fiber conductors. The LE.5213, LE.5214 and LE.5215 light conductors can be equipped with a lens holder (LE.5222) and a focusing lens (LE.5224). Ideal for all kind of applications in Life- and Materials sciences, various industrial applications and for stereo microscopy



<b>Power</b>	100 W halogen
<b>Luminous flux</b>	20,000 lux max. <sup>1)</sup>
<b>Color temperature</b>	3,000 K
<b>Operating voltage</b>	100 and 240 V AC / 12 V DC (50/60 Hz)
<b>Dimensions</b>	(h) 115 x (w) 320 x (d) 215 mm
<b>Weight</b>	3.8 kg
<b>Model</b>	<b>LE.5210</b>

<sup>1)</sup> with LE.5214 dual arm light conductor

## Compact single 20 W light source

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



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

## Economical and compact dual 2 W LED light source

Economical dual LED intensity adjustable light source with two 44 cm flexible Gooseneck arms each mounted with a 1 W LED. Ideal for applications in Life and Materials Sciences, various industrial applications and for stereo microscopy



<b>Power</b>	2x 1 W LED = 2x 20 W halogen equivalent
<b>Luminous flux</b>	18,000 lux max. (2 LED's)
<b>Color temperature</b>	6,500 K
<b>Operating voltage</b>	100-240 V AC / 12 V DC (50/60 Hz)
<b>Dimensions</b>	(h) 70 x (w) 120 x (d) 170 mm
<b>Weight</b>	1.6 kg
<b>Model</b>	<b>LE.5208</b>

## 144 LEDs ring light source with segment illumination

LED ring light source with high illuminance and segment illumination for all kind of demanding applications



<b>Ring illumination</b>	144 LEDs with adjustable intensity and 4 segment illumination
<b>Color temperature</b>	6,500 K
<b>Illuminance</b>	23,000 lux at 100 mm distance
<b>working distance:</b>	from 55 to 200 mm
<b>Mounting</b>	for stereo head with diameter from 25 to 61 mm
<b>Power supply</b>	100-240 V AC / 12 V DC (50/60 Hz) / 4.5 Watt
<b>External diameter</b>	100 mm
<b>Model</b>	<b>LE.1973</b>

## Compact 72 LEDs ring light source

Compact 20,000 lux LED ring light source



<b>Ring illumination</b>	72 LEDs with adjustable intensity and 4 segment illumination
<b>Color temperature</b>	6,500 K
<b>Illuminance</b>	21,000 lux at 100 mm distance
<b>working distance:</b>	from 50 to 180 mm
<b>Mounting</b>	for stereo head with diameter from 25 to 61 mm
<b>Power supply</b>	100-240 V AC / 12 V DC (50/60 Hz) / 4 Watt
<b>External diameter</b>	100 mm
<b>Model</b>	<b>LE.1974</b>

## Professional high Power LED ring light sources LE.1980/ LE.1981

LED ring light source with maximum illuminance and metal construction for professional usage. With adjustable intensity, optional power supply/ segment controller, diffuser, polarizers and fresnel focusing lenses for perfect illumination of objects



MODELS	Number of LEDs	Color temperature	Illuminance	For mounting diameters	Internal/ external diameter	Controls	Required power supply
LE.1980	48	6,000 K	17,000 lux	from 30 to 66 mm	45/90 mm	Analog controller, Intensity adjustable from 0-100 %	LE.1992
LE.1981	48	6,000 K	17,000 lux	from 30 to 66 mm	45/90 mm	Digital segments controller for 8, 4 or 1 segment, intensity adjustable from 0-100 %	LE.1993

## Professional high PowerLED ring light sources LE.1990/ LE.1991

LED ring light source with maximum illuminance and metal construction for professional usage. With adjustable intensity, optional power supply/ segment controller, diffuser, polarizers and fresnel focusing lenses for perfect illumination of objects



MODELS	Number of LEDs	Color temperature	Illuminance	For mounting diameters	Internal/ external diameter	Controls	Required power supply
LE.1990	72	6,000 K	21,000 lux	from 40 to 66 mm	60/110 mm	Analog controller, Intensity adjustable from 0-100 %	LE.1992
LE.1991	72	6,000 K	21,000 lux	from 40 to 66 mm	60/110 mm	Digital segments controller for 8, 4 or 1 segment, intensity adjustable from 0-100 %	LE.1993

## Fluorescence 40 Hz ring light source for Z series stereo zoom microscopes

Suitable for Z series stereo zoom microscopes, except for ZE.1659. Integrated 240 V AC power supply



<b>Ring illumination</b>	Fluorescent 40 kHz ring, fixed intensity
<b>Color temperature</b>	5,200 K
<b>Illuminance</b>	6,500 lux at 100 mm distance
<b>working distance:</b>	35-160mm
<b>Mounting</b>	48 mm with adapter for ZE series microscopes
<b>Power supply</b>	230-250 V
<b>External diameter</b>	100 mm
<b>Model</b>	<b>LE.1863</b>

## ACCESSORIES AND SPARE PARTS

### FOR LE.5210, LE.5211 AND LE.5211-LED COLD LIGHT SOURCES

#### FIBER LIGHT CONDUCTORS

- LE.5213** Single arm fiber light conductor, Gooseneck self-sustaining, 50 cm long, 4 mm diameter
- LE.5214** Dual arm fiber light conductor, Gooseneck self-sustaining, 50 cm long, 4 mm diameter
- LE.5215** Triple arm fiber light conductor, Gooseneck self-sustaining, 50 cm long, 4 mm diameter
- LE.5219** Dual arm fiber light conductor, Gooseneck self-sustaining, 70 cm long, 4 mm diameter
- LE.5239** Slit ring-shaped fiber light conductor 60 cm long, 8 mm diameter
- LE.5240** Slit ring shaped fiber light conductor 100 cm long, 8 mm diameter
- LE.5241** Flexible fiber light conductor, curved 90°, 60 cm long, 4 mm diameter
- LE.5216** Single arm flexible fiber light conductor, 100 cm long, 4 mm diameter
- LE.5235** Dual arm flexible fiber light conductor, 100 cm long, 4 mm diameter
- LE.5235-3** Dual arm flexible fiber light conductor, 300 cm long, 4 mm diameter
- LE.5217** Triple arm flexible fiber light conductor, 100 cm long, 4 mm diameter
- LE.5218** Single arm flexible fiber light conductor, 100 cm long, 8 mm diameter
- LE.5220** Single arm flexible fiber light conductor, 200 cm long, 8 mm diameter
- LE.5222** Focusing head for focusing lens LE.5224, LE.5228 or filters LE.5223, LE.5229 and LE.5231 (for fiber light conductors)
- LE.5224** Focusing lens. Requires LE.5222 or LE.5228 for mounting on LE.5213, LE.5214 and LE.5215

- LE.5228** Focusing head with iris diaphragm (for fiber light conductors)
- LE.5223** Set of 3 color filters (red, blue, green), suitable for LE.5222 and LE.5228
- LE.5229** Polarization filter
- LE.5231** Conversion KB12/80B filter

#### HALOGEN BULBS AND FUSES

- SL.5208** Halogen 20 W 12 V bulb with reflector (3,000 hrs nominal), GU4 fits LE.5209
- SL.5219** Halogen 100 W 12 V bulb with reflector (50 hrs nominal), MR16 fits LE.5210
- SL.5230** Halogen 100 W 12 V 'Long Life' bulb (1,000 hrs nominal), MR16 fits LE.5210
- SL.5235** Halogen 150 W 15 V bulb (50 hrs nominal), MR16 fits LE.5211
- SL.5240** Halogen 150 W 15 V 'Long Life' bulb (500 hrs nominal), MR16 fits LE.5211
- AE.5227** Spare fuses 1A/250 V, 10 pieces

#### FOR LE.1863

- SL.1864** Spare fluorescence lamp

#### FOR LE.1980 AND LE.1981

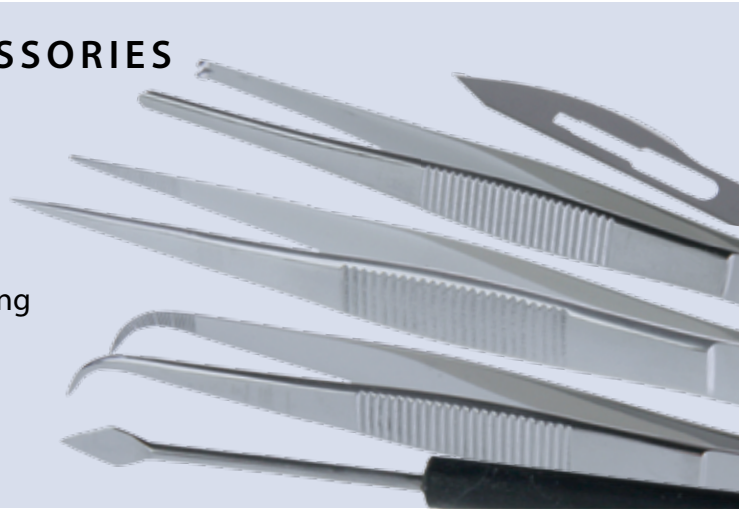
- LE.1984-050** Fresnel lens, WD from 40 to 80 mm
- LE.1984-100** Fresnel lens, WD from 80 to 150 mm
- LE.1984-200** Fresnel lens, WD from 150 to 240 mm
- LE.1984** Diffusing filter, for WD from 40 to 300 mm
- LE.1985** Glass protection window
- LE.1987** Polarizing filter
- LE.1888** Rotatable polarizing filter
- LE.1992** 100-230 V power supply analog controller. Intensity adjustable from 0-100%
- LE.1993** 100-230 V power supply digital segment controller. Intensity adjustable from 0-100%

#### FOR LE.1990 AND LE.1991

- LE.1994-050** Fresnel lens, WD from 40 to 80mm
- LE.1994-100** Fresnel lens, WD from 80 to 150 mm
- LE.1994-200** Fresnel lens, WD from 150 to 240 mm
- LE.1994** Diffusing filter, for WD from 40 to 300 mm
- LE.1995** Glass protection window
- LE.1997** Polarizing filter
- LE.1998** Rotatable polarizing filter
- LE.1992** 100-230 V power supply analog controller. Intensity adjustable from 0-100%
- LE.1993** 100-230 V power supply digital segment controller. Intensity adjustable from 0-100%

## PREPARATION ACCESSORIES

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



## Dissection instruments

- PB.5050** Dissecting needle, straight tip with plastic handle
- PB.5054** Dissecting needle, lancet-shaped with plastic handle
- PB.5056** Blunt-pointed probe, Ø2 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. Round 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



ACCESSOIRES FOR MICROSCOPY

10

## 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 cabinet

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



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

### 25 Slides

## set of histology, zoology and botany

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

## 25 Slides set of histology, zoology and botany

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 pig, 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** Pieris 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

<b>c.s.</b>	cross section
<b>l.s.</b>	longitudinal section
<b>w.m.</b>	whole mount

## 25 Slides set of histology, zoology and botany

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** Pieris 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 smea

## 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** Ceratophyllum Demersum, hornwort, leave with air stomas, 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

# 25 Slides set of histology, zoology and botany

## 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 connetive 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** Section through gonads and gills, l.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** Sporophyt w.m.  
**SB.2320** Cyrtomium, fern, leaf with sporangia  
**SB.2384** Volvox sp. w.m.

# 25 Slides set of histology, zoology and botany

## 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 megaloccephala, 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

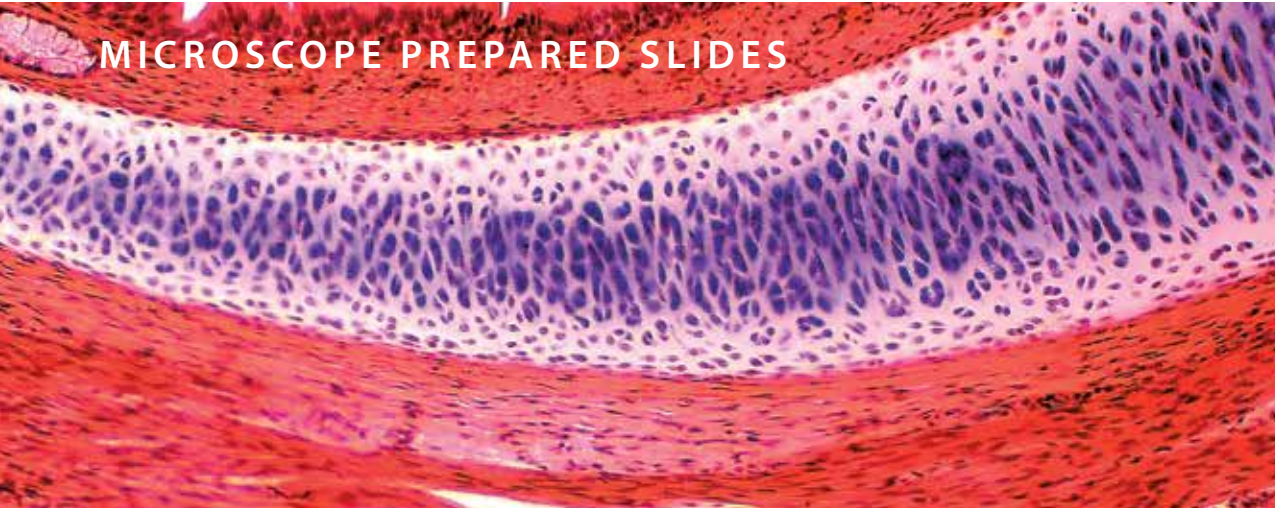
## BOTANY

- 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** Streptococcus lactis, milk bacteria, smear  
**SB.2415** Bacillus subtilis, hay bacteria, smear

### USED ABBREVIATIONS

<b>c.s.</b>	cross section
<b>l.s.</b>	longitudinal section
<b>w.m.</b>	whole mount

## MICROSCOPE PREPARED SLIDES



## 23 Slides of mammal histology

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:

### EPITHELIUM 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.

## 23 Slides of mammal histology

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:

### EPITHELIUM 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 epithelial cells of intestine, dog

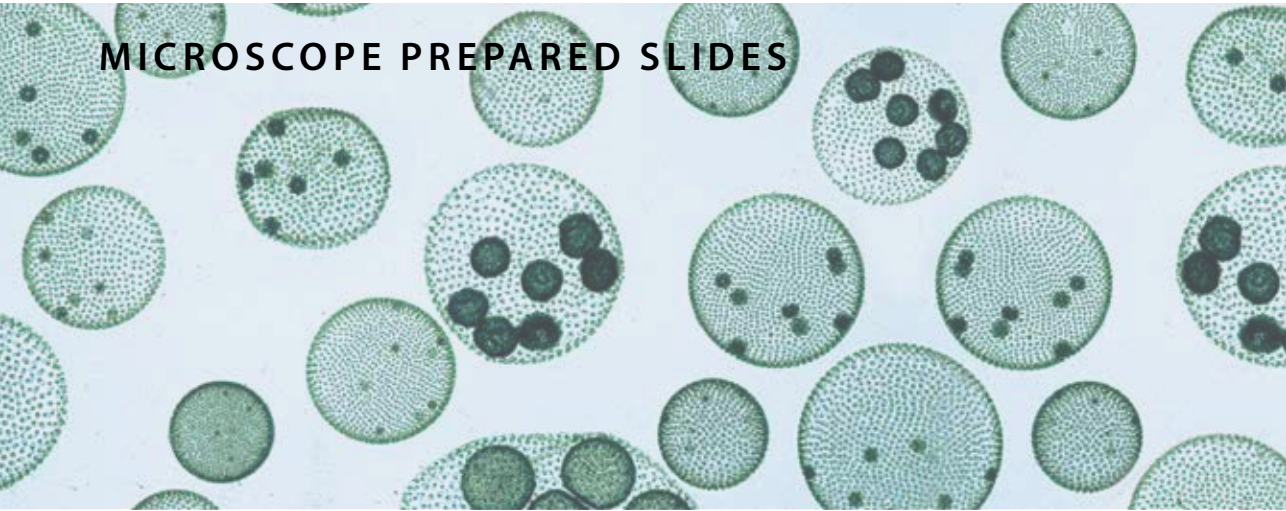
### URINARY AND GENITAL SYSTEM

- SH.1315** Kidney, rat, sec. cortex & medulla
- SH.1360** Sperm, human, smear
- SH.1375** Human chromosomes in blood, male
- SZ.1724** Fruitfly, drosophila, giant chromosomes of salivary gland, w.m.

### NERVOUS SYSTEM AND 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



### 10 Slides of zoology and botany

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.s. and c.s.
- SH.1110** Lung with injected blood vessels, rabbit, c.s.
- SZ.1708** *Apis mellifica*, honey bee, mouth parts
- SZ.1733** *Pieris 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*, shepherd's purse, ovary w. embryo in cotyledon stadium, l.s.
- SB.2374** *Aspergillus*, brown mold, w.m.
- SB.2384** *Volvox* sp., w.m.

#### USED ABBREVIATIONS

<b>c.s.</b>	cross section
<b>l.s.</b>	longitudinal section
<b>w.m.</b>	whole mount



### 25 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, c.s.
- 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 pig, 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** Fruitfly, *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 box.  
Available in: plastic box PB.5181 (for 25 slides)

## Individual EuroSlides for Histology

These histological microscope slides consist of sample of epithelium and connective tissues, the respiratory system, blood circulation, endocrine system, digestive system, urinary and genital systems, nervous system and sensory organs

### EPITHELIUM 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

<b>c.s.</b>	cross section
<b>l.s.</b>	longitudinal section
<b>w.m.</b>	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 megalcephala, horse roundworm, female + male c.s.
- SZ.1636** Ascaris megalcephala, 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 box.  
Available is: plastic box 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 cork 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, ovary, 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 stadium, 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** Saccharomyces 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.

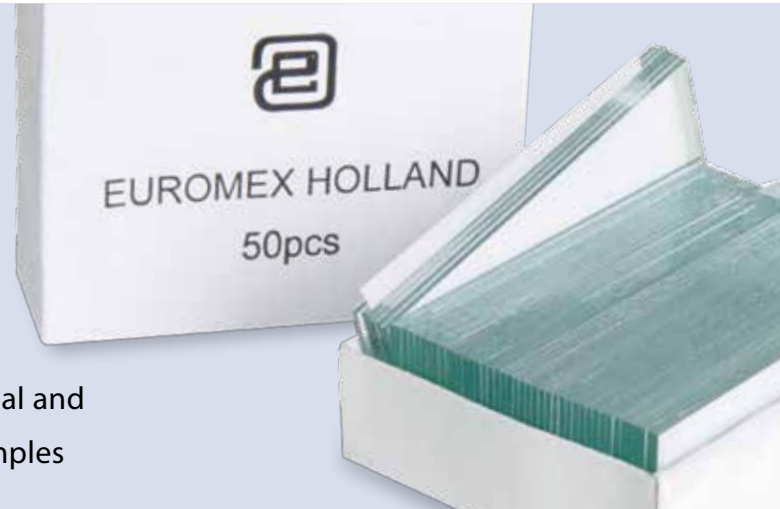
## ALGAE

- 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

## DISPOSABLES



Microscope slides are essential and are the platform for your samples

## Disposables

### MICROSCOPE SLIDES AND COVER GLASSES

- PB.5150** Microscope slides 76 x 26 mm, half white glass, cut edges. 50 pieces
- PB.5155** Microscope slides 76 x 26 mm white glass, grinded edges. 50 pieces
- PB.5157-W** Microscope slides 76 x 26 mm, grounded, White frosted side, 50 pieces
- PB.5157-B** Microscope slides 76 x 26 mm, grounded, Blue frosted side, 50 pieces
- PB.5160** Microscope slides 76 x 26 mm with concavity, grinded 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

Stained samples/cells enable better visualization under the microscope. Euromex offers a range of common stains



### MISCELLANEOUS ACCESSORIES

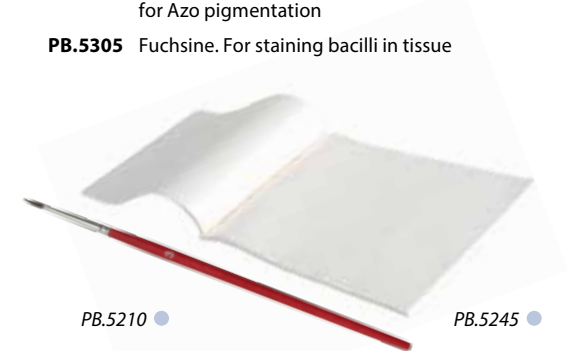
- PB.5200** Staining trough for 10 slides
- PB.5210** Fine pointed brush
- PB.5245** Lens paper. 100 sheets
- PB.5250** Solid paraffin. Melting point 60°C, 200 grams packed
- PB.5255** Immersion oil, refractive index nD = 1.482. In bottle (25 ml)
- PB.5265** Entellan, quick drying Canada balsam. In bottle (25 ml)
- PB.5270** Xylol (bottle), lens cleaner, intermediate agent for section slide preparation. In bottle (100 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.5275



● PB.5280 / PB.5274



● PB.5210

● PB.5245

### (DISSOLVED) STAINS

Supplied in 25 ml bottles

- PB.5280** Azo carmine-G. Biological stains for animal tissues. Also suitable for bacteria pigmentation
- 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** Safranin. 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** Fuchsin. For staining bacilli in tissue

# OtherProducts

Magnifiers

Optical instruments

USB microscopes



Euromex offers a large range of optical products for a wide variety of applications in different fields

Our high-quality magnifiers, refractometers and other optical instruments all ensure an excellent optical quality and unmatched durability

MAGNIFIERS &  
MEASURING MICROSCOPES • PAGE 334  
REFRACTOMETERS • PAGE 339  
POLARIMETERS • PAGE 347  
SPECTROSCOPES • PAGE 348  
PATHOLOGY SCANNER • PAGE 350



# MAGNIFIERS & MEASURING MICROSCOPES



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

## 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.5026** Handheld magnifier 10x with illuminator, aplanatic lens Ø 28 mm. Field of view 30 mm. Supplied without batteries



● PB.5020

● PB.5021

● PB.5026

● 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 21 mm. Field of view 15 mm

**PB.5033** Achromatic magnifier 20x, triplet.  
Lens Ø 21 mm. Field of view 8 mm



● PB.5032

**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.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.5043** Table magnifier, 4x magnification. Plastic lens Ø 57 mm, field of view 55 mm
- PB.5040** Table magnifier, 8x magnification. Plastic lens Ø 23 mm, field of view 30 mm. 10mm/100 reticle



● PB.5039 / PB.xxxx



● PB.5043 / 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 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 cross hair
- PB.5045** Measuring magnifier 7x. Eyepiece Ø 18 mm. Field of view 24 mm. Measuring scale 10-0-10 mm divided into 0.1 mm and cross hair. With 5 interchangeable scales for angle, thickness and linear measurements
- PB.5046** Measuring magnifier 10x. Eyepiece Ø 20 mm. Field of view 35 mm. Measuring scale 15-0-15 mm with 0.1, 0.2 and 0.5 mm graduations
- PB.5048** Measuring magnifier 4x. Eyepiece Ø 30 mm. Field of view 65 mm. Measuring scale 25-0-25 mm with 0.1 mm graduations
- PB.5047** Measuring magnifier 10x. Eyepiece Ø 25 mm. Field of view 32 mm. Measuring scale 13-0-13 mm



● PB.5044 / PB.5048



● PB.5046 / PB.5047



### MEASURING MICROSCOPES

- 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 cross hair
- PB.5008** Measuring microscope 20x with LED illumination. Field of view 7.2 mm
- PB.5010** Measuring microscope 40x with LED illumination. Field of view 3.6 mm
- PB.5012** Measuring microscope 60x with LED illumination. Field of view 1.75 mm
- PB.5014** Measuring microscope 100x with LED illumination. Field of view 1.1 mm



● PB.5008



● PB.5045

# RefractoMeters



Refractometers are used for the identification of substances and concentration measurement 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



RF.5562

## Handheld refractometers

### Sugar concentration

A few drops on the measurement prism of the refractometer are sufficient to read the refraction index of a liquid under test. The reflected light beam projects a shadow line onto a small glass reticle inside the instrument. The line and scale can be read through a magnifying eyepiece. The reading of most refractometers are corrected with an automatic temperature compensation (ATC)

The food industry intensively uses refractometers to determine the exact Brix concentration in marmalades, fruit, fruit juices, honey, treacle, wine and other food products. In the chemistry and oil industry refractometers are used to measure water/oil emulsions

All refractometers are equipped with an ATC (except RF.5190) and are supplied with specific scales

Concentrations of sugar in marmalades, fruits, honey, syrups, wine and monitoring of oil emulsions

MODELS	Scales	Accuracy	ATC	Analog	Model	Scales	Accuracy	ATC	Analog
RF.5190	0-90 Brix	0.2 Brix		•	RF.5562	28-62 Brix	0.2 Brix	•	•
RF.5510	0-10 Brix	0.1 Brix	•	•	RF.5580	0-80 Brix	0.5 Brix	•	•
RF.5520	0-20 Brix	0.1 Brix	•	•	RF.5582	40-82 Brix	0.5 Brix	•	•
RF.5532	0-32 Brix	0.2 Brix	•	•	RF.5592	58-92 Brix	0.5 Brix	•	•

# HIGHLIGHTS

- Portable
- Accurate
- Fast
- Automatic Temperature Correction (ATC)



RD.6535

## Digital handheld refractometers

### Sugar concentration in juices

A focused light beam of a LED source is reflected by the substance on a linear array of photo diodes. The refractometer correlates the position of the light beam on the array of photo diodes to refractive index or to another unit of measurement related to the substance under observation. The value can be read from a digital LCD readout. The digital refractometers are equipped with an automatic temperature compensation (ATC)

Especially designed to measure sugar concentrations in fresh fruit juices. Latest technology for measuring refractive indices. The sample is illuminated by LED light source while an optical sensor measures the percentage of reflection from the sample. With the refractive index the device calculates the concentration

Units in Brix, °Oe (Oechsle) and °KMW. With ATC

Concentrations of grapes and fruit

MODEL	Scales	Accuracy	Remarks	ATC	Digital
RF.5635	0-140 °Oe	1 °Oe	Oechsle units	•	•
	0-32 Brix	0.2 Brix	Sugar concentration	•	
	0-25 °KMW	0.2 °KMW	Babo units	•	

Concentrations of sugar, nD indices (only for sugar)

MODELS	Scales	Accuracy	ATC	Digital
RD.5635	0-35 Brix	0.1 Brix	•	•
RD.5645	0-45 Brix	0.1 Brix	•	•
	1.33-1.40 R.I.	0.0001 R.I.		
RD.5665	28-65 Brix	0.1 Brix	•	•

# REFRACTOMETERS



● 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. The Abbe refractometer is also suitable for determination of the refractive index of solid samples, such as glass, plastics, and polymer films. The instrument is equipped with a built-in thermometer and water connection to control fluid temperatures. Also equipped with a Brix and a refraction index scale and supplied with a test plate

Abbe refractometers are more accurate with an extended scale to measure concentrations of sugar and refractive indices. 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, thermometer 0-50° Celsius, calibration plate and adjusting tool

*Substance identification of sugar concentration*

MODEL	Scales	Accuracy	Remarks	Analog
98.490	0-95 Brix 1.300-1.700 RI	0.5 Brix 0.0002 RI	Abbe table refractometer without light source	•

# HIGHLIGHTS

- Portable
- Accurate
- Fast
- Automatic Temperature Correction (ATC)



● RF.5381

## Gemological refractometer Gemstones

Gemological refractometers are the key instruments for research in gemological laboratories. Gemstones can be examined using the optical principles on which these refractometers are based

Refractive index, one of the principal properties used in determining the type of a gemstone, is a material constant, dependent on the chemical composition of a substance. This allows users to identify gem materials by measuring their refractive index

Determination of the refractive index is done at the wavelength of the sodium line D-line (NaD) of ~589 nm. This is filtered out from daylight with a dedicated optical filter

*Identification of precious stones*

MODEL	Scales	Accuracy	Remarks	Bench-top instrument	Analog
RF.5381	1.30-1.81 I.R.	0.01 I.R.	With filter 590 nm	•	•

## REFRACTOMETERS

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



### Handheld Refractometers

#### Alcohol and alcohol-sugar solutions

Measure concentrations of alcohol, sugar and alcohol-sugar % solutions. Using refractometers permit the growers to choose the moment of the vintage by monitoring the "must". With ATC



*Sugar concentration, % alcohol and alcohol/sugar solutions*

MODEL	Scales	Accuracy	ATC	Analog
RF.5625	0-25% 0-40 Brix	0.2 % 0.2 Brix	•	•

#### Sugar and salt

For concentrations of salt, water-soluble salt solutions of sugar. The handheld refractometers are equipped with a Brix scale. With ATC

*Substance identification of sugar concentration*

MODEL	Scales	Accuracy	ATC	Analog
RF.5610	0-100 ‰ 0-10 Brix	1 ‰ 0.1 Brix	•	•

*Substance identification of sugar concentration*

MODEL	Scales	Accuracy	ATC	Digital
RD.5728	0-28 % 0-35 Brix 1.30-1.39 RI	0.1% 0.1 Brix 0.0001 RI	•	•

## Battery acid and Coolant

Testing water-soluble coolants and battery acid solutions. The refractometer features a coolant temperature scale for ethylene glycol and propylene glycol. It also has a specific acid. With ATC



*For testing water-soluble coolants and battery acid solutions.*

MODEL	Scales	Accuracy	Remarks	ATC	Analog
RF.5650	1.15-1.30 RI 0/-50 °C 0/-50 °C	0.01 RI 5 °C 5 °C	Battery acid Ethylene glycol Propylene glycol	•	•

### Clinical applications

Clinical refractometers are commonly used to measure Serum Protein, Specific Gravity of Urine and Refractive Index. With ATC



*For measuring clinical applications as Serum Protein, Specific Gravity of Urine and Refractive Index*

MODEL	Scales	Accuracy	Remarks	ATC	Analog	MODEL	Scales	Accuracy	Remarks	ATC	Digital
RF.5612	0-12 g/dl 1-1.05 sg 1.333-1.360 RI	0.2 g/dl 0.002 sg 0.0005 RI	Proteins in Serum Urine specific gravity	•	•	RD.5712 <sup>(1)</sup>	0-12 g/dl 1-1.05 sg 1.33-1.39 RL	0.2 g/dl 0.001 sg 0.0001 RL	Proteins in Serum Urine specific gravity	•	•

<sup>(1)</sup> With this model the value can be read from a digital display

### ACCESSORIES AND SPARE PARTS

- RF.5295** Test slide 78.8 Brix for calibration of RF.5190
- RF.5384** 5 ml immersion nD 1.79 liquid for RF.5381
- LE.5209** 20 W 12 V cold light source with single fiber light conductor (for Abbe refractometer 98.490)

- SL.5208** Spare 20 W 12 V halogen bulb
- 98.492** Thermometer 0-50° C (for Abbe refractometer 98.490)
- 98.496** Calibration slide nD 1.5163 (for Abbe refractometer 98.490)

# Polarimeters & Spectroscopes



A polarimeter measures the rotation angle of polarized light traveling through an optically active substance. The rotation angle of the polarization plane of linear polarized light is different for each optical active substance as described in the Law of Biot

Polarimetry is a non-destructive test method for measuring optical activity of organic and inorganic substances. It is very useful to analyze expensive non-reproducible samples. Polarimeters are extensively used for quality and process control in research laboratories in the chemical and food industry

Spectroscopes are used to visualize the light spectrum of light sources



## POLARIMETERS

### Polarimeter

● 99.400

Polarimeters are suitable for fast and accurate measurements of sugars, glucose, perfume, chemical substances and medical drugs. Equipped with a built-in 230 V 589.3 nm sodium lamp with ballast for 230 volt operation with cable and plug

Polar scale, range  $\pm 180^\circ$  with  $0.1^\circ$  readings. Supplied with observation tubes of 100 mm and 200 mm. Bright light measuring field permits reading with accuracy of  $0.1^\circ$  with aid of Vernier

Range  $0-180^\circ$  to left and right. Accuracy  $0.1^\circ$ . Polarizing device: Glan Thomson prism and Laurent Quartz plate

#### HIGHLIGHTS

- The polarimeters are delivered with 100 and 200 mm observation tubes
- Equipped with a built-in 230 V 589.3 nm sodium lamp
- Fast and accurate
- Short warm-up time

#### 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  $\varnothing$  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)
99.400	$\pm 180^\circ$	$\pm 0.1^\circ$ polar scale	•	•

# SPECTROSCOPES

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



## Euromex handheld spectroscope

SP.5200

Handheld spectroscope with adjustable slit, comparison prism, mirror, five glass mini-cuvettes and wavelength scale 400 - 700 nm with 589 nm indication. Divisions 10 nm

- Direct vision type
- Adjustable eye lens
- Adjustable slit 0 - 1 mm
- Angle dispersion C - F 7°
- Linear dispersion 60 mm
- Comparison prism for comparison between products
- Mirror
- 5 Glass cuvettes
- Wavelength scale 400 - 700 nm



• SP.5200

MODEL	Dimensions	Weight (grams)	Adjustable slit	Comparison prism	Angle dispersion	Linear dispersion	Wavelength scale	589 nm indication	With 5 glass cuvettes
SP.5200	h50x115xp23	250	0-1 mm	•	C-F 7°	60 mm	•	•	•

## Euromex handheld spectroscope

SP.5155

Handheld spectroscope with adjustable slit and comparison prism, mirror and five glass cuvettes

- Comparison prism
- Mirror
- Five glass cuvettes

- Direct vision type
- Adjustable eyelens
- Adjustable slit 0 - 1 mm
- Angle dispersion C - F 7°
- Linear dispersion 60 mm



• 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	h45x1105xd23	125	0-1 mm	•	C-F 7°	60 mm			•

## Handheld spectroscope

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			

## Handheld spectroscope

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			



## PATHOLOGY SCANNER



PS.1001 ●

## PathoScan

### 10,000 DPI slide scanner

In pathology, histology and other medical fields, medical professionals look at tissue slides under a microscope. Often the tissues are stained to highlight certain structures enabling the specialists to perform their analysis. Euromex offers a digital solution for these specialists

The PathoScan digital microscope slide scanner produces quick, reliable and high-resolution digital images of cells. Once the slides are digitized there are numerous advantages against classic microscopy

The users now have the ability to upload the scanned images onto a network for sharing and collaboration among colleagues, resolving in better and faster diagnostics.

The scanned slides can also be used for education purposes. Digitized slides also can be analyzed using the specialists own dedicated software. The software can be used to automate the manual counting of structures, or for classifying the condition of tissue such as is used for grading tumors

#### PATHOVIEW SCANNING SOFTWARE

- Easy Preview and Scan Slide
- Quick setting exposure time
- Scan resolution from 1,000~10,000 dpi
- File format: TIF and JPEG
- Images can also be used with ImageFocus Alpha basic microscopy analysis software, see chapter 9.

PS.1001	
<b>Dimensions</b>	<b>Weight</b>
(h) 70 x (w) 150 x (d) 260 mm	1.0 kg

## HIGHLIGHTS

- Supports standard microscopy slide 76 x 26 mm
- From basic histology research to Life Science education
- Scans full slide
- Simple user interface
- Superior quality, 3-line CCD sensor
- 48-bit, 10,000 dpi, 5 µm resolution
- Industry-leading scanning speeds
- Holder for two slides included
- Polarization attachment available



PS.1001 / PS.3001 ●

## SPECIFICATIONS

<b>Resolution</b>	10,000 x 10,000 dpi
<b>Scan mode</b>	Color
<b>Dynamic Range</b>	3.8
<b>Scanning Area</b>	24.3 x 36.5 mm (H x W)
<b>Scanning medium</b>	76 x 26 mm slides
<b>File Format</b>	Saving in JPG, TIFF format
<b>Light Source</b>	Transmission white LED
<b>Operating System</b>	Windows 7/8/10 Intel-based Mac OS X 10.5/10.6 /10.7/10.8
<b>Power supply</b>	100- 240 AC Adapter, 12 V 1.5 A
<b>Supplied with</b>	Double slide holder, 100-240 V power supply, USB-2 cable, PathoView scanning software and user manual
<b>Model</b>	<b>PS.1001</b>

#### MODELS

PS.1001	PathoScan 10,000 DPI slide scanner
PS.3001	Double slide holder
PS.3002	Polarization slide holder, for one slide

# USB MICROSCOPES



FEATURED



## Q-scope®

### Discover the new world of handheld digital microscopy

Q-scope® is a revolution in handheld microscopy. A digital microscope with up to 500x magnification can now be used from the palm of your hand. These flexible and precise instruments have been designed in such way that it fits perfectly in your hand. This makes the usage of the Q-scope® very easy and effortless. Ease of use is crucial, this is why the Q-scope® only needs one finger to focus, grab a picture and select illumination settings. There is a Q-scope® for every application, use the white power led versions for standard applications, or choose one of the special application models



QS.MS10  
with QS.20200-P

Connect your Q-scope® via USB to your Windows or Mac computer to observe and analyze captured or live images with the powerful user-friendly (free of charge) software for advanced image processing. The WiFi models can also easily be connected to tablet computers. The Q-scope® series consists of models with numerous magnification ranges and a variety of image sensors



## GENERAL APPLICATIONS



MODELS	QS.13200-P	QS.20200-P	QS.20500	QS.90200-P	QS.13100-W
<b>Illumination</b>	White power LEDs	White power LEDs	White high power LEDs	White high power LEDs	White high power LEDs
<b>Connection</b>	USB 2.0	USB 2.0	USB 2.0	USB 2.0	WiFi/USB 2.0
<b>Magnification</b>	10-50, 200x	10-50, 200x	500x	10-40, 200x	WiFi: 10-25x, 100x USB: 10-25, 200x
<b>Zoom</b>	Yes, distance controlled	Yes, distance controlled		Yes, distance controlled	Yes, distance controlled
<b>Focus range</b>	10-500mm	10-500mm	4mm	10-200mm	10-500mm
<b>Polarizer</b>	yes	yes	no	yes	yes
<b>CMOS sensor</b>	1.3 Megapixel	2 Megapixel	2 Megapixel	9 Megapixel	1.3 Megapixel
<b>Resolution</b>	1280x1024, 1280x960, 640x480	1600x1200, 1280x960, 800x600, 640x480	1600x1200, 1280x960, 800x600, 640x480	3488x2616, 2560x1920, 2048x1536, 800x600	1280x960, 1024x768, 640x480
<b>Max. frame rate</b>	30 fps	30 fps	30 fps	15 fps	25 fps

## SPECIAL APPLICATIONS



MODELS	QS.UV-370	QS.UV-400	QS.IR-940	QS.DERMO
<b>Illumination</b>	high power UV 370nm LEDs	high power UV 400nm LEDs	Infrared (940nm) and white power LEDs,	high power CR++ LEDs
<b>Connection</b>	USB 2.0	USB 2.0	USB 2.0	USB 2.0
<b>Magnification</b>	10-50 and 200x	10-50 and 200x	10-50 and 200x	10-50 and 200x
<b>Zoom</b>	distance controlled	distance controlled	distance controlled	distance controlled
<b>Focus range</b>	10-500mm	10-500mm	10-500mm	5-520mm
<b>Polarizer</b>	no	no	yes	no
<b>CMOS sensor</b>	2 Megapixel	2 Megapixel	2 Megapixel	2 Megapixel
<b>Resolution</b>	1600x1200, 1280x960, 800x600, 640x480	1600x1200, 1280x960, 800x600, 640x480	1600x1200, 1280x960, 800x600, 640x480	1600x1200, 1280x960, 800x600, 640x480
<b>Max. frame rate</b>	30 fps	30 fps	30 fps	32 fps
<b>Applications</b>	Industry, medical, scientific, forensic research and counterfeit detection		Industry, scientific and forensic research	Dermatology

# Q-SCOPE® STANDS

## DESIGNED FOR MANY APPLICATIONS

The Q-scope® stands are designed to be stable, well balanced and provide smooth adjustment and positioning of the Q-scope® digital microscopes

The desktop models consist of a black coated metal base with a chromed steel post. **The Q-scope® Metal Gooseneck Stand** has a black coated metal boomerang-shaped base with a chromed flexible gooseneck with holder. With each stand a cable clamp is provided in order to secure the USB cable of the wired Q-scope® models

**The Q-scope® Metal Boom-arm Stand** offers an extra steady and precise positioning of the microscope

The large pillar and long articulated arm of the **Q-scope® Metal Articulated-arm Stand** enables users to place large objects under the Q-scope®. Use the fixed or the 3D-positioning holder to position the Q-scope® in any three dimensional position effortlessly

**The fine focus adjustment system** allows accurate positioning and focusing of the Q-scope® for precise microscope height control

**The Cradle Stand** offers a hands-free usage of the Q-scope® to view at a fixed WD. You can easily put the Q-scope® into the cradle for close inspection at a high magnification  
See [www.qscope.com](http://www.qscope.com) for more models and information

## Q-SCOPE® BASIC STANDS



MODELS	QS.M510	QS.M520	QS.CS10
<b>Stand</b>	Metal Positioning Stand with easy 3D positioner	Metal Gooseneck stand with fixed positioner	Cradle Stand
	Stable height adjustable stand with 3D positioner for accurate microscope control, ergonomic stable design	Ergonomic hands-free operation. Large WD and positioning options. Designed for maximum flexibility, ergonomic stable design	Transparent cradle for easy movement across flat surfaces and fast inspection at a fixed working distance
<b>Applications</b>	All	All	Surface inspection such as printing and fabrics
<b>Dimensions</b>	(w) 146 x (l) 176 x(h) 160 mm	(w) 329 x (l) 138 x(h) 265 mm	(d) 98 x(h) 50 mm
<b>Working distance</b>	0 - 105 mm	0 - 120 mm	15 mm
<b>Weight</b>	620 grams	580 grams	35 grams
<b>Compatible with</b>	All Q-scope models	All Q-scope models	All Q-scope models
<b>Package content</b>	Stand, 3D positioner holder, wrench, cable guiding clamp, user manual	Stand, fixed positioner holder, wrench, cable guiding clamp, user manual	Stand, holder, user manual

## 3D POSITIONER

Check out the easy 3D positioner for effortless positioning of the Q-scope® in all possible angles

A unique feature optional of the Q-scope® stands range is the **3D positioner**, which enables very easy and precise three-dimensional positioning and focusing using only one hand! We invite you to experience this fully rotatable state-of-the-art positioning tool while using your Q-scope® digital microscope



## Q-SCOPE® PROFESSIONAL STANDS



MODELS	QS.M540-B	QS.M540-D	QS.M545-B
<b>stand</b>	Metal Boom-arm stand with 3D positioner	Metal Boom-arm Stand with fine focus adjustment 3D positioner	Metal Articulated-arm Stand with 3D positioner
	Extra stable and height adjustable stand with 3D positioner for accurate control, suitable for large objects	Extra stable and height adjustable stand with fine focus adjustment, and fixed positioner for precise control in height, for large objects	Extra stable and height adjustable articulated stand with 3D positioner for accurate control, for large objects
<b>Applications</b>	all	all	all
<b>Dimensions</b>	(w) 220 x (l) 250 x(h) 287 mm	(w) 220 x (l) 250 x(h) 287 mm	(w) 220 x (l) 250 x(h) 287 mm
<b>WD</b>	0 - 230 mm	0 - 235 mm	0 - 230 mm
<b>Working range (X/Y)</b>	190/190 mm	45/137 mm	335/335 mm
<b>Focusing range</b>	-	44 mm	-
<b>Weight</b>	1600 grams	1700 grams	1800 grams
<b>Compatible with</b>	all Q-scope models	all Q-scope models	all Q-scope models
<b>Package content</b>	Stand, fixed position holder, wrench, cable guiding clamp, user manual	Stand, fine focus unit, fixed position holder, wrench, cable guiding clamp, user manual	Stand, fixed positioner holder, wrench, cable guiding clamp, user manual

# Choose the right EuromexMicroscope

Euromex offers a large range of microscope series and selecting the right microscope for your application might be challenging and time consuming. To simplify this process we have listed our recommended models for most common applications in education, laboratories and industry

EDUCATION	FIELD OF APPLICATION	RECOMMENDED MODELS
• Botany	Study of plants as branch of biology. Plant anatomy and morphology. Plant genetics and ecology. Plant biochemistry	MicroBlue, EcoBlue, BioBlue, BioBlue.Lab, AP series, EduBlue, StereoBlue
• Digital imaging	Observation and perform analysis on microscope images, storage and share captured and videos	CMEX cameras, CCD cameras, HD cameras, EduPad
• Electronics	Development, production, assembling and inspection of electronic components or circuitry	bScope® (material), EduBlue, StereoBlue, NexiusZoom
• Entomology	Study of insects as branch of zoology. Identification and classification of beetles, flies, termites, moths and butterflies, bees, ants, wasps	MicroBlue, EcoBlue, BioBlue, BioBlue.Lab, AP series, EduBlue, StereoBlue
• Geology, mineralogy	Earth Science; Study of solids, rocks and processes. Identification and classification of rocks and minerals	EcoBlue (polarization), BioBlue (polarization), AP series, EduBlue, StereoBlue
• Geology, petrology	Identification by means of petrographic microscope	EcoBlue (polarization), BioBlue (polarization), AP series, EduBlue, StereoBlue
• Mechanics	Manufacturing and quality inspection of mechanical parts	bScope® (material), EduBlue, StereoBlue, NexiusZoom
• Microbiology	Study of microscopic uni-, multi- or acellular small organisms such as protozoa, algae, bacteria and more. Identification and classification	EcoBlue, BioBlue, bScope®
• Mycology	Study of fungi as branch of biology. Identification and classification	EcoBlue, BioBlue, BioBlue.Lab, bScope®, AP series, EduBlue, StereoBlue
• Petrology	Study of the composition and structure of rocks as branch of geology. Identification by means of polarization microscopes	EcoBlue (polarization), BioBlue (polarization), AP series, EduBlue, StereoBlue
• Zoology	Animal biology. Study of invertebrated and vertebrated animals and related branches	EcoBlue, BioBlue, BioBlue.Lab, bScope®, AP series, EduBlue, StereoBlue

UNIVERSITY LABS	FIELD OF APPLICATION	RECOMMENDED MODELS
• Agronomy & forestry	Selective breeding of plants, fruit and production of food from plants, wood from trees, fuel. Plant physiology and genetics research	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• Anatomopathology	Diagnosis of diseases of organs or tissues. Cytopathology and forensic pathology	BioBlue.Lab, bScope®, iScope®, Oxion, NexiusZoom, DZ series
• Asbestos control	Research of asbestos fibers, environmental protection during restauration of older buildings	iScope® (asbestos and polarization), NexiusZoom, DZ series, Z series
• Bacteriology	Study of bacteria as subdivision of microbiology. Identification, classification	BioBlue.Lab, bScope®, iScope®, Oxion
• Biochemistry	Study of chemical processes within living organism. Identification and classification of enzymes and structure of biomolecules	BioBlue.Lab, bScope®, iScope®, Oxion
• Biomedical	Study of medical microbiology, virology, epidemiology, biomedical engineering	BioBlue.Lab, iScope®, Oxion
• Biotechnology	Study of living organism in order to make food products, for plant protection (genetically modified organism) and other bioprocess engineering. Development of pharmaceutical drugs, genetic testing, enzymes production, biofuels, textile	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• Botany	Study of plants as branch of biology. Plant anatomy and morphology. Plant genetics and ecology. Plant biochemistry	BioBlue.Lab, bScope®, StereoBlue, NexiusZoom, DZ series
• Cell Culture	Controlled grown of cells and tissues, fungal culture and microbiological culture	Oxion Inverso, NexiusZoom, DZ series
• Chemistry	Study of the composition and properties of chemicals	iScope® (material and polarization), Oxion (material), bScope® (material), NexiusZoom, DZ series
• Cosmetics	Research, development and testing (safety) of substances for make-up or perfume	iScope® (material), Oxion (material), bScope® (material), NexiusZoom, DZ series
• Cytology	Study of cell structure, function and chemistry. Detection of cellular diseases	BioBlue.Lab, iScope®, Oxion
• Dermatology	Study and diagnosis, treatment of skin, nails and hair diseases	iScope®, Oxion, NexiusZoom, StereoBlue, DZ series
• Digital imaging	Observation and perform analysis on microscope images, save and share captured images and videos	CMEX cameras, CCD cameras, HD cameras, Cooled cameras, ProPad
• Electronics	Development, production, assembling and inspection of electronic components or circuitry	iScope® (material), Oxion (material), bScope® (material), StereoBlue, NexiusZoom, DZ series, Z series
• Embryology	Study of gametes, embryos and foetuses	BioBlue.Lab, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series

UNIVERSITY LABS FIELD OF APPLICATION

RECOMMENDED MODELS

• <b>Entomology</b>	Study of insects as branch of zoology. Identification and classification of beetles, flies, termites, moths and butterflies, bees, ants, wasps	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• <b>Environmental</b>	Monitoring of environmental conditions such as water, atmosphere, ecosystems, soil and pollution control	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• <b>Fluorescence</b>	Study of living and non living material with the help of fluorescence markers (fluorochromes)	iScope® (fluorescence), Oxion (fluorescence), Oxion Inverso (fluorescence), bScope® (fluorescence), DZ series
• <b>Food and beverages</b>	Quality and safety controls, before, during and after the production of food and beverages	BioBlue.Lab, bScope®, iScope®, Oxion
• <b>Forensics</b>	Analysis of scientific evidence. Toxicology, fingerprints, Forensic anthropology and archeology, forensic botany and entomology	BioBlue.Lab, iScope®, iScope® (material and polarization), Oxion, Oxion (material), Oxion Inverted, Oxion Inverted (material), NexiusZoom, DZ series, Z series
• <b>Genetics</b>	Study of genes, heredity in living organism including bacteria, plants, animals and humans	iScope®, Oxion, DZ series
• <b>Geology, mineralogy</b>	Earth Science; Study of solids, rocks and processes. Identification and classification of rocks and minerals	iScope® (material), Oxion (material), bScope® (material), StereoBlue, NexiusZoom, DZ series
• <b>Geology, petrology</b>	Identification by means of petrographic microscope	iScope® (polarization), StereoBlue, NexiusZoom, DZ series
• <b>Glass industry</b>	Quality control, before, during and after the production of glass and coatings	iScope® (material), Oxion (material), Oxion Inverso (material), bScope® (material), StereoBlue, NexiusZoom, DZ series
• <b>Hematology</b>	Study and diagnosis, treatment and prevention of diseases of the blood	iScope®, bScope® (darkfield), iScope® (darkfield), Oxion, Oxion (darkfield)
• <b>Histopathology</b>	Microscopic examination of tissue, diagnosis of diseases	iScope®, Oxion
• <b>Horticulture</b>	Selective breeding of plants and fruit for production of food	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• <b>In vitro fertilization</b>	In vitro fertilization IVF. Quality control of collected egg and sperm	StereoBlue, NexiusZoom, DZ series, Z series
• <b>Marine Biology</b>	Study of organisms living in the ocean or sea's as branch of biology	bScope®, BioBlue.Lab, iScope®, Oxion
• <b>Mechanics</b>	Manufacturing and quality inspection of mechanical parts	iScope® (material), Oxion (material), Oxion Inverso (material), bScope® (material), StereoBlue, NexiusZoom, DZ series
• <b>Metallurgy</b>	Manufacturing and quality inspection of metallic elements, intermetallic compounds and alloys	iScope® (material), Oxion (material), bScope® (material), StereoBlue, NexiusZoom, DZ series
• <b>Microbiology</b>	Study of microscopic uni-, multi- or acellular small organisms such as protozoa, algae, bacteria and more. Identification and classification	iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• <b>Mining</b>	Extraction of minerals for identification, quantitative and qualitative evaluation of minerals	iScope® (material and polarization), Oxion (material and polarization), Oxion Inverso (material), bScope® (material), StereoBlue, NexiusZoom, DZ series

UNIVERSITY LABS FIELD OF APPLICATION

RECOMMENDED MODELS

• <b>Mycology</b>	Study of fungi as branch of biology. Identification and classification	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• <b>Neuropathology</b>	Study and diagnosis of diseases in nervous system tissue	iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• <b>Oncology</b>	Study and diagnosis, treatment and prevention of cancers	iScope®, Oxion
• <b>Ornithology</b>	Study of birds as branch of zoology. Diagnosis of diseases in birds such as competition pigeons	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• <b>Paleontology</b>	Study of fossils in order to determinate organisms evolution	iScope® (material), Oxion (material), bScope® (material), StereoBlue, NexiusZoom, DZ series
• <b>Paper industry</b>	Production of paper related products. Quality inspection	iScope® (material), Oxion (material), bScope® (material), StereoBlue, NexiusZoom, DZ series
• <b>Parasitology</b>	Study of parasites, medical and veterinary	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• <b>Pathology</b>	Study and diagnosis of diseases	iScope®, Oxion
• <b>Petrochemical</b>	Research and transformation of crude oil and natural gas	iScope® (material), Oxion (material), bScope® (material), StereoBlue, NexiusZoom, DZ series
• <b>Petrology</b>	Study of the composition and structure of rocks as branch of geology. Identification by means of polarization microscopes	iScope® (polarization), StereoBlue, NexiusZoom, DZ series
• <b>Pharmaceutics</b>	Development and production of drugs for medication. Quality assurance and inspection of produced products	iScope® (polarization), StereoBlue, NexiusZoom, DZ series
• <b>Phytopathology</b>	Study and diagnosis of plant diseases	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• <b>Plastics</b>	Development and production of plastics and plastic based compounds. Quality assurance and inspection	iScope® (material), Oxion (material), Oxion Inverso (material), bScope® (material), StereoBlue, NexiusZoom, DZ series
• <b>Textile</b>	Development and production of all kind of textile based products. Quality assurance and inspection	iScope® (material), Oxion (material), bScope® (material), AP series, StereoBlue, NexiusZoom, DZ series
• <b>Veterinary medicine</b>	Prevention, diagnosis and treatment of diseases, injuries in animals	BioBlue.Lab, bScope®, iScope®, Oxion, Oxion Inverso, StereoBlue, NexiusZoom, DZ series
• <b>Virology</b>	Study and diagnosis of viruses and virus-like agents	BioBlue.Lab, bScope®, iScope®, Oxion
• <b>Water treatment</b>	Production of drinking water and wastewater treatment. Quality control and disease prevention	BioBlue.Lab, bScope®, iScope®, Oxion
• <b>Wood production</b>	Wood production for construction material, fuel. Quality control	iScope® (material), Oxion (material), Oxion Inverso (material), bScope® (material), AP series, StereoBlue, NexiusZoom, DZ series
• <b>Embryo collection</b>	Embryo collection and transfer in mares, pigs, cows. Quality control	NexiusZoom, DZ series, Z series
• <b>Zoology</b>	Animal biology. Study of invertebrated and vertebrated animals and related branches	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series

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**MICROSCOPE  
COLLECTION**  
2018

Designed in Holland

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