



CATALOG 2016

PART 3 MICROSCOPES
FOR INDUSTRY

 **euromex**
microscopes holland

Since 1966!

Euromex
**MICROSCOPE
COLLECTION**
2016

PART 1 MICROSCOPES
FOR EDUCATION

PART 2 MICROSCOPES
FOR LABORATORIES

PART 3 MICROSCOPES
FOR INDUSTRY



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Euromex Catalog 2016



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MicroBlue • EcoBlue • BioBlue • BioBlue.Lab • B and B+ series

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EduBlue • StereoBlue • NexiusZoom • AP series

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EDUCATION | DIGITAL SOLUTIONS

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Illumination solutions • Preparation accessories • Dissection kits
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Magnifiers & measuring microscopes • Refractometer • Polarimeter • Spectroscopes • PathoScan

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 and stereo microscopes

The corporate office is based in Arnhem, The Netherlands. A facility with a 2,000 m² conditioned logistics warehouse, an optomechanical 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

Choose the right
EuromexMicroscope

We have made a guide to help you to 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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StereoMicroscopes

Industry



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StereoMicroscopes

Industry

Stereo microscopes from Euromex are designed to provide high resolution three dimensional images. These high-end microscopes are robust and ergonomic and enable long, fatigue-free working sessions in both laboratorial and industrial environments

ESD safe versions as well as long working distance set-ups are available



NexusZoom

The new standard in stereo microscopy



The NexusZoom stereo microscopes from Euromex enable you to examine 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 larger objects



NexiusZoom (ESD)

The NexiusZoom stereo microscopes are supplied with a large choice of objectives and stands, with or without illumination. Ideal for all kinds of industrial applications. With additional lenses and objectives magnifications from 3.3 up to 180 times can be achieved

ESD safe microscopes for the electronic industry complete this series



NZ.1903-S ESD



NZ.1903-S	
Dimensions	Weight
(h) 339 x (w) 256 x (d) 311 mm	5.1 kg
NZ.1903-P	
Dimensions	Weight
(h) 299 x (w) 256 x (d) 311 mm	5.3 kg

For weight of other products see table

HIGHLIGHTS

- Binocular and trinocular heads with HWF 10x/22 mm eyepieces
- Zoom 1 : 6.7 ratio, 6.7x to 45x standard
- Ergonomically designed stands
- 3 W LED illuminations
- Configurations up to 180x magnification
- ESD safe microscopes
- 10 years warranty

TECHNICAL SPECIFICATIONS

EYEPIECES

- Pair of HWF 10x/22 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

OBJECTIVE

- Zoom 1:6.7 objective with 0.67x to 4.5x magnifications
- Field of view from 33 mm to 4.9 mm
- Working distance 110 mm
- Additional 0.5x, 0.75x, 1.5x and 2.0x lenses available

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

STAND

The rack & pinion and pillar stands of the NexiusZoom are equipped with an ergonomically designed, wide flat base. Complete with 2 object clamps and Ø 100 mm transparent and black/white stage plates and double illuminators. The coarse adjustment is equipped with tension control



NZ.1902-S ESD



The ergonomically designed universal single arm stand and double arm boom stand are ideal for looking at large samples or working under the microscope.

Standard supplied without illumination

Suitable for e.g. ring illuminators LE.1972 and LE.1973 with 60 or 144 power LEDs controlled in segments ideal for creating or lift shades

The stands are alloy metal casted with hardened off-white coating. ESD safe coating versions are also available

More illumination options see chapter 10 (Accessories)

NZ.9025 / NZ.9081 / NZ.5302



TECHNICAL SPECIFICATIONS

ILLUMINATION

3 W transmitted and incident LED illuminators with internal power supply 100-240 V. Both illuminators can be used simultaneously and the light intensities can be adjusted separately

ESD SAFE MICROSCOPES

For inspection and assembly applications. Electrostatic discharge (ESD) is the unwanted sudden flow of electricity between two electrically charged objects. ESD can cause a range of harmful effects as well as permanent damage to solid state electronics components.

Euromex therefore now introduces electrostatic protected microscopes in the NexiusZoom range. The body and stand of the microscope are coated with a special static dissipative paint eliminating harmful electrostatic discharges making the microscopes suitable for all static-sensitive environments


PACKAGING

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

Electrostatic discharge (ESD)

-

To select an ESD safe microscope model, please find them in the table on this page marked with suffix ESD



MODELS

	Binocular	Trinocular	Pillar stand	Rack & pinion stand	Universal stand	Boom stand	Articulated arm stand	Antistatic ESD	Weight (kg)
NZ.1902-P	•		•						5.0
NZ.1902-P-ESD	•		•					•	5.0
NZ.1902-S	•			•					4.9
NZ.1902-S-ESD	•			•				•	4.9
NZ.1902-U	•				•				15.6
NZ.1902-U-ESD	•				•			•	15.6
NZ.1902-B	•					•			22.1
NZ.1902-B-ESD	•					•		•	22.1
NZ.1902-A	•						•		8.6
NZ.1903-P		•	•						5.3
NZ.1903-P-ESD		•	•					•	5.3
NZ.1903-S		•		•					5.1
NZ.1903-S-ESD		•		•				•	5.1
NZ.1903-U		•			•				15.7
NZ.1903-U-ESD		•			•			•	15.7
NZ.1903-B		•				•			22.2
NZ.1903-B-ESD		•				•		•	22.2
NZ.1903-A		•					•		8.7

MAGNIFICATIONS

Working distance and field of view with standard HWF 10x / 22 High Wide Field eyepieces

Zoom indication	Auxiliary lens 0.5x working distance 165 mm		Auxiliary lens 0.75x working distance 120 mm		Objective 1x (standard) working distance 110 mm		Auxiliary lens 1.5x working distance 45 mm		Auxiliary lens 2x working distance 30 mm	
	Total magnification	Field of view in mm	Total magnification	Field of view in mm	Total magnification	Field of view in mm	Total magnification	Field of view in mm	Total magnification	Field of view in mm
0.67	3.35	65.7	5.0	44.0	6.7	32.8	10.0	22.0	13.4	16.4
0.7	3.5	62.9	5.3	41.9	7.0	31.4	10.5	21.0	14.0	15.7
0.8	4.0	55.0	6.0	36.7	8.0	27.5	12.0	18.3	16.0	13.8
1.0	5.0	44.0	7.5	29.3	10.0	22.0	15.0	14.7	20.0	11.0
1.5	7.5	29.3	11.3	19.6	15.0	14.7	22.5	9.8	30.0	7.3
2.0	10.0	22.0	15.0	14.7	20.0	11.0	30.0	7.3	40.0	5.5
3.0	15.0	14.7	22.5	9.8	30.0	7.3	45.0	4.9	60.0	3.7
4.0	20.0	11.0	30.0	7.3	40.0	5.5	60.0	3.7	80.0	2.8
4.5	22.5	9.8	33.8	6.5	45.0	4.9	67.5	3.3	90.0	2.4



NZ.1902-U



NZ.1903-B



NZ.1902-P



NZ.1902-S

ACCESSORIES AND SPARE PARTS

NZ.5302 NexiusZoom binocular head with eyepieces
NZ.5303 NexiusZoom 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.6099 Pair of eyecups

NZ.8905 Auxiliary lens 0.5x. Working distance 165 mm (not suitable for NZ.1902-S and NZ.1903-S)
NZ.8907 Auxiliary lens 0.75x. Working distance 120 mm
NZ.8915 Auxiliary lens 1.5x. Working distance 45 mm
NZ.8920 Auxiliary lens 2.0x. Working distance 30 mm (not suitable for NZ.1902-S and NZ.1903-S)
NZ.8950 Protection glass for NexiusZoom head

NZ.9010 Ergonomical rack & pinion stand with transmitted and incident LED illuminators
NZ.9015 Ergonomical pillar stand with transmitted and incident LED illuminators
NZ.9020 Universal (single arm) stand without NexiusZoom head holder
NZ.9030 Boom (double arm) stand without NexiusZoom head holder
NZ.9090 NexiusZoom head holder (for NZ.9020 and NZ.9030)

NZ.9025 Articulated arm stand with table clamp (without NexiusZoom head holder)
NZ.9081 NexiusZoom head holder (for articulated arm stand NZ.9025)
AE.5168-NZ Heating stage with PID controller up to 50°C
NZ.9950 Standard opaque stage plate
NZ.9956 Black/white stage plate
NZ.9570 Pair of object clamps for stage
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. Needs T2 adapter
AE.5020 T2 adapter for Nikon D digital SLR cameras
AE.5040 T2 adapter for Canon EOS digital SLR cameras
Other T2 adapters on request

LE.1972 Ring illuminator with 60 LEDs with adjustable light intensity. External mains adapter 100-240 V. With segment controller. Brightness of 8.500 Lux at height of 100 mm and color temperature of 6.400K. Max. internal mounting diameter 60 mm

LE.1973 Ring illuminator with 144 LEDs with adjustable light intensity. External mains adapter 100-240 V. With segment controller. Brightness of 20.000 Lux at height of 100 mm and color temperature of 6.400K. Max. internal mounting diameter 60 mm
AE.1112 Object micrometer 50 mm (divided in 500 parts on glass slide 76 x 26 mm)

50.876 Dark field attachment

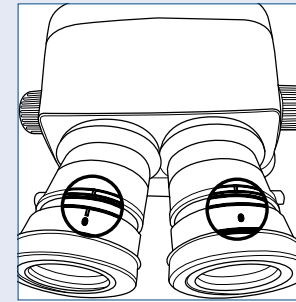


NZ.5302 / NZ.5303

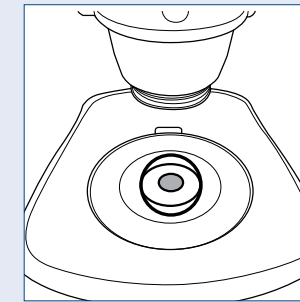
How to set up a Stereo Microscope

QUICK
INSTALLATION

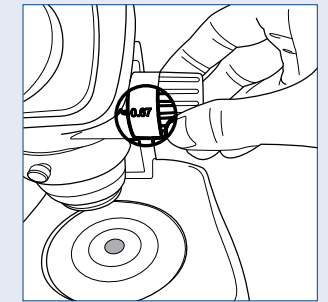
Setting up your stereo microscope properly is essential to getting parfocal images during the entire zoom range. It also prevents head aches, stressful eyes and fatigue. Below you will find a set up guide that will help get the best out of your microscope



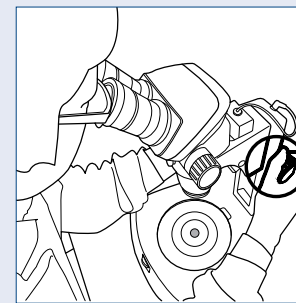
1 Turn the diopter adjustment rings of both eyepieces to position "0"



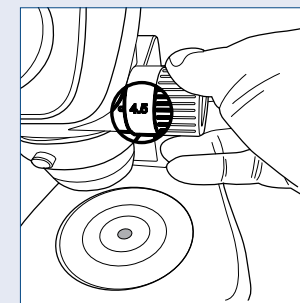
2 Put a specimen on the stage plate



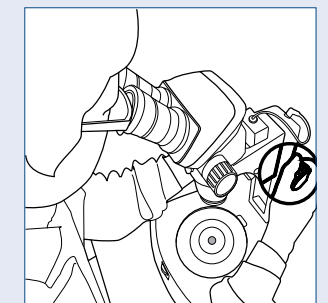
3 Turn the zoom adjustment knob to the lowest magnification



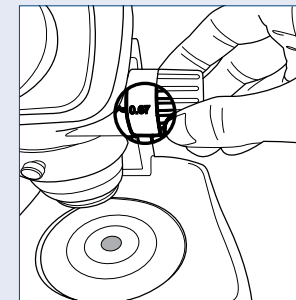
4 Rotate the focus adjustment knob to bring the specimen into focus



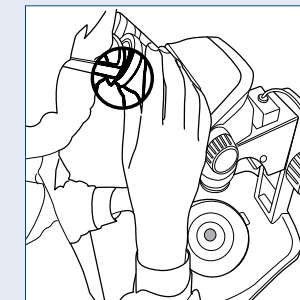
5 Turn the zoom adjustment knob to the highest magnification



6 Rotate the focus adjustment knob to bring the specimen into focus



7 Turn the zoom adjustment knob to the lowest magnification



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

PLEASE NOTE

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

If not, please repeat steps 3 to 8



StereoBlue

Stereo microscopes of the StereoBlue series are especially developed for industry applications, greatly appreciated by geologists, mechanical and electronic engineers and other professionals like jewelers and dental technicians

SB.1302/SB.1402	
Dimensions	Weight
(h) 350 x (w) 220 x (d) 266 mm	4.0 kg

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

For weight of other products see table 'Models'



SB.1903

HIGHLIGHTS

- Binocular and trinocular models
- Dual 1x/3x or 2x/4x magnification objectives
- Zoom stereo 0.7x to 4.5x objective
- Ergonomically designed stands
- Pillar or rack & pinion models
- 3 W LED illuminators
- Built-in ring light
- Ergonomic carrying grip
- 5 years warranty



Universal stand model SB.1902-U

TECHNICAL SPECIFICATIONS

EYEPIECES

Pair of WF10x/20 mm secured eyepieces supplied with eyecups

HEAD

- Binocular or trinocular 45° inclined tubes
- Diopter adjustment on both eyepieces, except the models SB.1302-P/1402-P and SB.1302-S/1402-S, which have diopter adjustment on one eyepiece
- Interpupillary distance adjustable between 55 mm and 75 mm

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
- Field of view 28.5 mm to 4.4 mm
- Working distance 100 mm
- Upgradable to maximum 135x magnification

STANDS

The rack & pinion and pillar stands of the StereoBlue are equipped with ergonomically designed flat bases, complete with 2 object clamps and Ø 60 mm transparent and black/white stage plates. The coarse adjustment is equipped with tension control.

The ergonomically designed universal single arm stand is ideal for looking at large samples or working under the microscope. Standard supplied without illumination. Suitable for e.g. ring illuminators LE.1972 and LE.1973. More illumination options see chapter 10 (Accessories). The stands are alloy metal casted with hardened off-white coating. More illumination options see chapter 10.

TECHNICAL SPECIFICATIONS

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

PACKAGING

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

YOUTUBE

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 eyepiece

SB.6015 Pair of HWF 15x/15 mm eyepiece

SB.6020 Pair of HWF 20x/10 mm eyepiece

SB.6110 HWF 10x/20 mm eyepiece with micrometer

SB.6099 Pair of eyecups

SB.8905 Auxiliary 0.5x lens, only suitable for zoom models with pillar stands (SB.1902-P & SB.1903-P)

With rack- and pinion models the sample thickness is max. 2 cm. Working distance 170 mm

SB.8907 Auxiliary 0.75x lens for zoom models.

Working distance 114 mm

SB.8915 Auxiliary 1.5x lens for zoom models.

Working distance 48 mm

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

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.5020 T2 adapter for Nikon D digital SLR cameras

AE.5040 T2 adapter for Canon EOS digital SLR cameras

Other T2 adapters on request

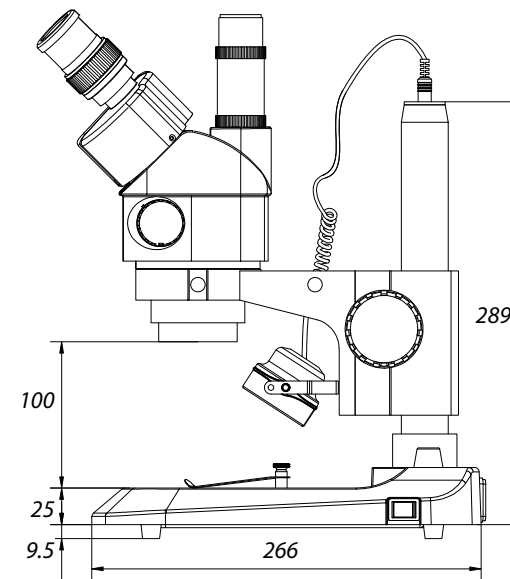
AE.1112 Micrometer 76 x 26 mm slide, 50 mm/50 divisions

PB.5245 Lens cleaning paper, 100 sheets per pack

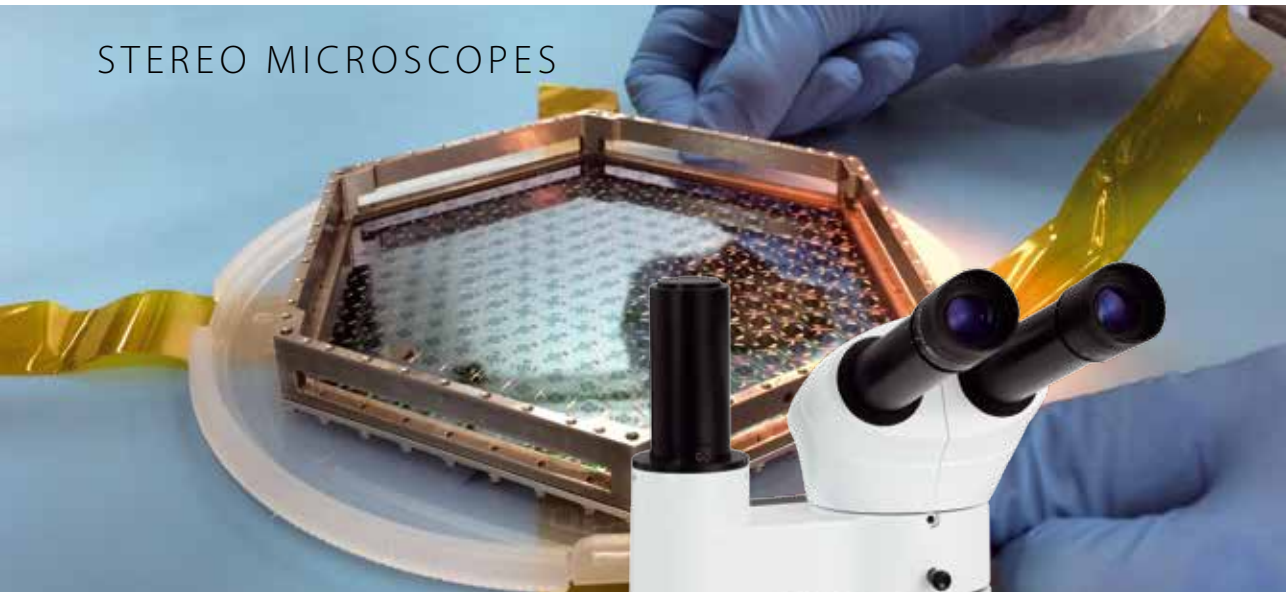
PB.5274 Isopropyl alcohol 99% (200 ml)

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

DIMENSIONS



STEREO MICROSCOPES



DZ series

The modular stereo microscopes of the DZ series can be built around no less than 3 different central zoom units with respectively zoom ratios from 0.8 to 5 times, 0.8 to 6.4 times or 0.8 to 8 times. Choosing a pair of eyepieces, one of the available objectives, stands and other accessories make this series very flexible and adaptive to your needs and applications



customized configuration model
(DZ.0800, 2x DZ.3010, DZ.2025, DZ.9005, DZ.9010, DZ.4010 and DZ.5020)

DZ.1100 / DZ.1600 / DZ.1800	
Dimensions	Weight
(h) 305 x (w) 330 x (d) 285 mm	6.0 kg

DZ.1105 / DZ.1605 / DZ.1805	
Dimensions	Weight
(h) 305 x (w) 330 x (d) 285 mm	5.2 kg

For weight of other products see table 'Models'



HIGHLIGHTS

- Binocular and trinocular models
- 6 standard configurations or customized configuration
- Ergonomic tilting head from 5 to 35° tilting or fixed 20° inclined head, EWF10x/22mm eyepieces,
- Three central zoom units from 4 to 320x
- Field of views from 55 to 1.4 mm
- Working distances from 126 to 33 mm
- Ergonomical rack and pinion stands, boom stand or articulated arm stand
- Transmitted and incident LED illumination
- 100 W epi-fluorescence mercury vapor illuminator
- 10 years warranty



TECHNICAL SPECIFICATIONS

EYEPIECES

Pair of EWF 10x/22 mm eyepieces

HEADS

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

CENTRAL ZOOM UNITS

Three central zoom units are available:

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

COMMON MAIN OBJECTIVE

Standard configurations are supplied with a plan apochromatic Common Main objectives 1x, working distance 78 mm. Other plan apochromatic Common Main objectives 0.5x (working distance 126 mm) and 2x (working distance 33 mm) are also available

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

STAND

Large ergonomic stand with ø 100 mm object plate and 2 object clamps. Coarse adjustment with adjustable friction. A universal stand and an articulated arm stand without illumination are also available for configurations built to customer's specifications

ILLUMINATIONS

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

PACKAGING

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

STANDARD CONFIGURATIONS

All 6 standard configurations are equipped with EWF10x/22mm eyepieces, plan achromatic Common Main objective 1x and rack & pinion stand with incident and transmitted LED illumination

MODELS (STANDARD)

	Binocular 20° head	Binocular Ergo 10 to 35° tilting	Magnifications from 8 to 50x	Magnifications from 8 to 64x	Magnifications from 8 to 80x
DZ.1100		•			•
DZ.1105	•				•
DZ.1800		•		•	
DZ.1805	•			•	
DZ.1600		•	•		
DZ.1605	•		•		

All equipped with EWF10x/22mm eyepieces

MAGNIFICATIONS AND FIELD OF VIEWS FOR STANDARD CONFIGURATIONS

Model	Zoom indication	0.5x Objective Working distance 126 mm		1.0x Objective Working distance 78 mm		2.0x Objective Working distance 33 mm	
		Total magnification	Field of view	Total magnification	Field of view	Total magnification	Field of view
DZ1100 / DZ1105 DZ1800 / DZ1805 DZ1600 / DZ1605	0.8x	4x	55	8x	27.5	16x	13.7
	1.0x	5x	44	10x	22	20x	11
	1.5x	7.5x	29.3	15x	14.6	30x	7.3
	2.0x	10x	22	20x	11	40x	5.5
	3.0x	15x	14.6	30x	7.3	60x	3.6
	4.0x	20x	11	40x	5.5	80x	2.7
	5.0x	25x	8.8	50x	4.4	100x	2.2
	6.0x	30x	7.3	60x	3.6	120x	1.8
	6.4x	32x	6.8	64x	3.4	128x	1.7
	7.0x	35x	6.3	70x	3.1	140x	1.5
	8.0x	40x	5.5	80x	2.75	160x	1.4

All equipped with EWF10x/22mm eyepieces



BUILD YOUR OWN MICROSCOPE

A customized DZ series stereo microscope can be configured to customer's specifications by choosing one of the three central zoom units DZ.0630, DZ.0800 or DZ.1000 and adding the necessary components for the application. Pair of eyepieces, an ergonomically 5 to 35° tilting head or fix 20° inclined head, a common 0.5x, 1x or 2x main objective, a large ergonomic LED stand, a boom or an articulated arm stand. Other accessories like a photo/camera unit or dual iris diaphragm complete your configuration

CENTRAL ZOOM UNITS

- DZ.0630** Central Zoom Unit 1:6.3 unit with magnifications from 0.8 to 5 times
- DZ.0800** Central Zoom Unit 1:8 unit with magnifications from 0.8 to 64 times
- DZ.1000** Central Zoom Unit 1:10 unit with magnifications from 0.8 to 80 times

STANDS

- DZ.5020** Universal stand without illumination. Dimensions 460 (h) x 280 (l) x 400 (d) mm
- DZ.5040** Ergonomic stand with transmitted and incident LED illumination
- 65.890** Articulated arm stand for mounting on table without head holder (65.981)
- 65.981** Head holder 76 mm for DZ series and black universal stand 65.980

HEADS

- DZ.2020** Ergonomically binocular 5-35° tilting head
- DZ.2025** Binocular 20° tilted head
Interpupillary distance from 55 to 75 mm.

FLUORESCENCE ATTACHMENT

- DZ.9050** Attachment for fluorescence with 100 W mercury vapor illumination with GFP-B and GFP-LP filter sets. Supplied with power supply
- DZ.9060** Filter cube with GFP-B for Blue excitation, EM band pass filter (EX 460-500, DM 505, EM 510-560)
- DZ.9061** Filter cube with GFP-L for Blue excitation, EM long pass filter (EX 460-500, DM 505, EM 510)
Other fluorescence filters available on request

EYEPIECES

- DZ.3010** EWF 10x/22 eyepiece, 1 piece
- DZ.3012** EWF 10x/22 eyepiece with crosshair, 1 piece
- DZ.3015** WF 15x/16 eyepiece, 1 piece
- DZ.3020** WF 20x/12 eyepiece, 1 piece

DIAPHRAGMS

- DZ.9010** Double iris diaphragms for increased depth of field

OBJECTIVES

- DZ.4005** Plan apochromatic Common Main objectives 0.5x. Working distance 126 mm
- DZ.4010** Plan apochromatic Common Main objectives 1.0x. Working distance 78 mm
- DZ.4020** Plan apochromatic Common Main objectives 2.0x. Working distance 33 mm

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

ACCESSORIES

- DZ.9020** Large 185 x 145 mm stage with mechanical X-Y 50 x 50 mm stage, to be moved by hand
- DZ.9040** Dark field attachment for DZ.5040
- DZ.9045** Polarizer, 360° rotatable, to be mounted on Common Main objectives of DZ series
- DZ.9047** Polarizer, 360° rotatable, to be placed on stage of DZ series

ACCESSORIES

- DZ.9005** Photo port attachment with one 23.2 mm tube
DZ.9007 Photo port attachment with two 23.2 mm tubes
DZ.9009 Photo port attachment with one 23.2 mm tube to be used with fluorescence attachment
- DZ.9011** C-mount 0.4x objective for insertion into photo port attachments
DZ.9013 C-mount 1x objective for insertion into photo port attachments
- AE.1900** Glass object-plate, \varnothing 100mm
AE.1903 Acrylic white/black object plate
- AE.5130** Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Needs T2 adapter
AE.5020 T2 adapter for Nikon D digital SLR cameras
AE.5040 T2 adapter for Canon EOS digital SLR cameras
Other T2 adapters on request
- AE.1385** 100 W HBO mercury vapor bulb for fluorescence
SL.5520 LED replacement for incident LED illumination of DZ.5040 stand
- 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, cotton swabs



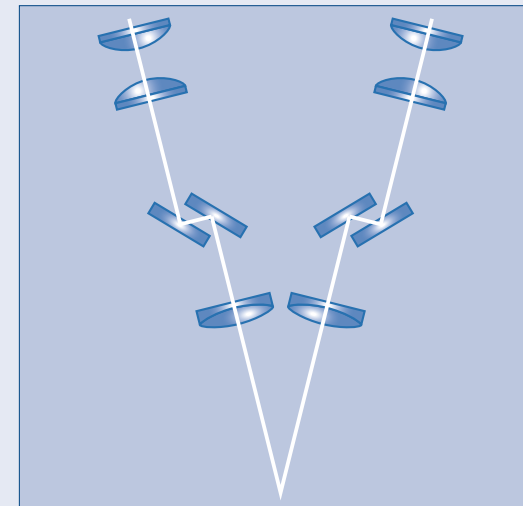
DZ.1100

2 Concepts of Stereo Microscopes

TECHNICAL
FACTS

Most modern stereo microscopes are built according to 2 concepts: the Greenough and the Common Main Objective (CMO). The Greenough system is named after the American instrument designer, Horatio S. Greenough, who introduced this concept in the early 1890's, a system that became the workhouse for biological dissection in the 20th century. Much later, in 1957, a stereo zoom microscope with a Common Main Objective was introduced in the United States by the American Optical Company

Greenough principle



Two optical trains with their optical axis under a small angle, between 10° and 12° , generating 2 images of the object

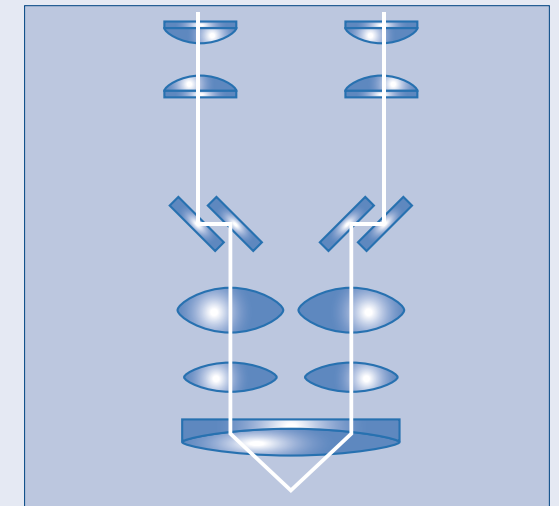
- Low cost
- Compact
- Magnifications⁽¹⁾ up to approximately 100x
- Good quality
- Production environment

(1) Objective without additional lenses and with 10x eyepieces

(2) With 10x eyepieces

(3) The parallel system allows many accessories like photo and epi-fluorescence attachments, iris diaphragms, beamsplitters to be added

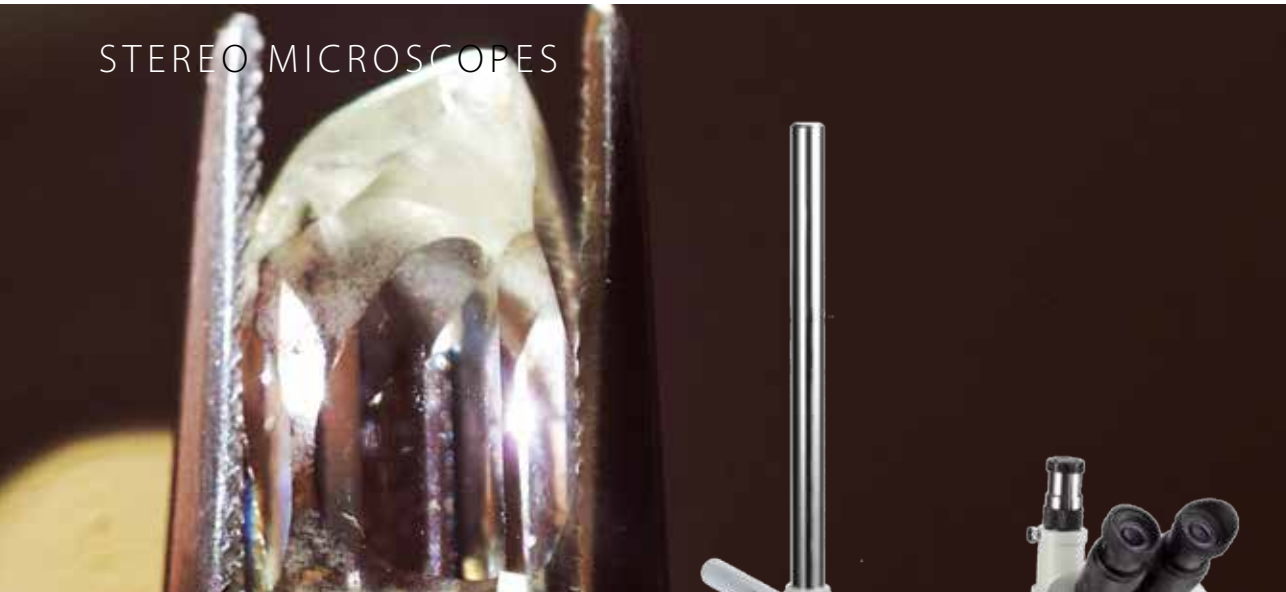
Common Main Objective (CMO) principle



Two optical trains with their optical axis parallel to each other, share a last Common Main Objective to generate 2 images under a small angle

- Allows modular systems (infinity optical system)
- Enables higher magnifications⁽²⁾, up to 300x
- Upgradable⁽³⁾
- High imaging quality
- Research and development labs

STEREO MICROSCOPES



Z series

These versatile high-end stereo microscopes are highly appreciated by the professional research teams and industry for the excellent optical and mechanical characteristics. Indispensable for a reliable quality inspection of processes in production or of industrial products, these microscopes are also extensively used in research laboratories. Certain components are also integrated in machines. Depending on the application, the microscopes can be configured with fix or variable magnification or zoom heads together with other components such as eyepieces, additional lenses, stands, stages, filters, etc



ST.1720 and ZE.1654

ZE.1654	
Dimensions	Weight
(h) 250 x (w) 155 x (d) 210 mm	2.5 kg

ST.1720	
Dimensions	Weight
(h) 780 x (w) 270 x (d) 740 (max) mm	19 kg



HIGHLIGHTS

- Modular system
- Binocular and trinocular models
- Standard SWF10x/23 mm eyepieces
- Stereo zoom heads with fix 45°, 60° or 90° inclined tubes
- Zoom magnification objectives
- Superior resolution optics
- Multiple stands
- 10 years warranty



ZE.1659 and AE.1770

TECHNICAL SPECIFICATIONS

EYEPIECES

Pair of SWF 10x/23 mm eyepieces

HEADS

- Binocular or trinocular heads with 45°, 60° or 90° inclined tubes
 - Diopter $\pm 6^\circ$ adjustment on both tubes for Z series
- Interpupillary distance from 55 to 75 mm.

ZOOM MAGNIFICATION OBJECTIVES

- Zoom objective with variable 0.4x to 2.5x magnifications
 - Zoom objective with variable 0.7x to 4.5x magnifications
 - Zoom objective with variable 1x to 7x magnifications
- Zoom objectives with click stops are also available on request*

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



ZE.1624 and ST.1735

STANDS WITHOUT ILLUMINATION

- ST.1710** Pillar stand with ST.1790 head holder. Pillar height 210 mm, diameter \varnothing 20 mm. Dimensions (h) 250 x (w) 150 x (d) 240 mm
- ST.1715** Pillar stand with ST.1792 head holder. Pillar height 250 mm, diameter \varnothing 20 mm. Dimensions (h) 290 x (w) 150 x (d) 240 mm
- ST.1717** Pillar ergonomically flat stand with ST.1790 head holder. Pillar height 250 mm, diameter \varnothing 20 mm. Dimensions (h) 290 x (w) 250 x (d) 350 mm
- ST.1770** Large pillar wooden stand with ST.1790 head holder. Pillar height 360 mm, diameter \varnothing 29mm. Suitable for SMD inspection. Dimensions (h) 400 x (w) 580 x (d) 500 mm

STANDS WITH ILLUMINATION

- ST.1735** Rack & pinion stand with 3 W LED adjustable illumination and rotatable double-sided coated mirror (one frosted and one aluminium coated side). Especially developed for observation of transparent object. Very suitable equine or porcine embryo collection and transfer. Internal 100-240 V power supply. Dimensions: (h) 290 x (w) 160 x (d) 240 mm, min/max height 240-290

TECHNICAL SPECIFICATIONS

STANDS WITH ILLUMINATION

ST.1740 Rack & pinion stand with 10 W halogen illumination. Supplied with frosted filter for transmitted illumination and a blue filter for incident illumination. Both illuminations are adjustable and can be simultaneously used. With integrated power supply. Dimensions: 240 x 160 x 290 (D x W x H), min/max height 240-290

ST.1750 Tilting rack & pinion stand for GEM observation. Round 260 mm base with object clamp AE.5446. Height 300 mm. Halogen 40 W 230 V incandescent illumination.

ST.1760 Pillar flat stand for dark field. Supplied with AE.1878 dark field attachment and object clamp AE.5446. Cold light illumination by 100 W cold light source LE.5211 and flexible fiber light guide. Pillar height 210 mm, diameter \varnothing 20mm. Supplied with blue filter. Dimensions: 240 x 150 x 260 (L x W x H). (Not suitable for ZE.1659)

BOOM STANDS

ST.1720 Articulated one arm boom stand with a 270 x 270 mm base, 610 mm and \varnothing 29mm pillar, with orientable stereo head holder ST.1794. Vertical post 780 mm. Weight 19.5 kg

65.980/65.983 Articulated one arm stand to be mounted on a table with 85 mm diameter head holder. Depth positioning of stereo head between 33 and 100 cm. Working distance between 0 and maximum 295 mm

HEAD HOLDERS

ST.1790 Head holder with coarse adjustment
ST.1796 Head holder with coarse and fine adjustment
ST.1792 Head holder with coarse adjustment and opening for one fiber light guide
ST.1794 Orientable head holder with coarse adjustment and opening for one fiber light guide
ST.1798 Orientable head holder with coarse and fine adjustment and opening for one fiber light guide

All head holders have an internal diameter of 84 mm and a friction adjustment

FOCUSING

Coarse adjustment and friction adjustment for head holders for ST.1790, St.1792, ST.1794, ST.1796. The head holders ST.1796 and ST.1798 are also equipped with a fine focusing adjustment

PACKAGING

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

ACCESSORIES AND SPARE PARTS

EYEPIECES (without eyecups)

AE.1835 Pair of SWF5x/26 mm eyepieces
AE.1836 Pair of SWF10x/23 mm eyepieces
AE.1834 Pair of SWF12.5x/20 mm eyepieces
AE.1837 Pair of SWF15x/16 mm eyepieces
AE.1838 Pair of SWF20x/11.5 mm eyepieces
AE.1840 Pair of SWF30x/7.5 mm eyepieces
AE.5439 Pair of eyecups
AE.5425 Pair of eyecups, suitable when wearing for spectacles

MICROMETER EYEPIECES (with adjustable lens)

AE.1839 SWF10x/21mm with 10 mm/100 micrometer reticle and cross hair
AE.1841 SWF10x/21mm with 10 x 10 mm reticle, 400 squares
AE.1842 SWF10x/21mm with photo corners marks

ZOOM STEREO HEADS

MODELS

	Binocular	Trinocular	Tilt tubes	objective zoom	Magnifications	Working distance (mm)	Field of view (mm)
ZE.1624	•		45°	0.7 - 4.5x	7 - 45x	93	32/5.1
ZE.1654		•	45°	0.7 - 4.5x	7 - 45x	93	32/5.1
ZE.1657		• ¹	45°	0.7 - 4.5x	7 - 45x	104	32/5.1
ZE.1670	•		45°	1 - 7x	10 - 70x	104	23/3.3
ZE.1671		• ¹	45°	1 - 7x	10 - 70x	104	23/7.7
ZE.1626	•		60°	0.7 - 4.5x	7 - 45x	93	32/5.1
ZE.1629	•		90°	0.7 - 4.5x	7 - 45x	110	32/5.1
ZE.1659		• ¹	45°	0.4 - 2.5x	4 - 25x	185	57/12,8

¹) When the trinocular tube is engaged, the image are still available in both All zoom stereo heads are supplied with SWF 10x/23 mm eyepieces without eyecups

STANDS

MODELS

	Column (mm)	Diameter (mm)	Rack & pinion	I x p base (mm)	Height (mm)	Head holder	Illumination
ST.1710	210	20		240x150	250	ST.1790	-
ST.1715	250	20		240x150	290	ST.1792	-
ST.1717	250	20		320x250	290	ST.1790	-
ST.1720	610	29		780x270	650	ST.1794	-
ST.1735	-		•	240x160	290		3 W LED
ST.1740	-		•	240x160	290		10 W Hal
ST.1750	-		•	\varnothing 260	300		40 W ¹
ST.1760	210	20		240x160	260	ST.1790	100 W Hal ²
ST.1770	360	29		500x580	400	ST.1790	-
65.980/65.983	-		•	\varnothing 1000 ³	0/295	65.983	-

¹) With 40 W incandescent bulb. ²) 100 W cold light illumination with fiber light guide. ³) Length with the 2 arms totally extended The stand ST.1760 is not suitable for head holder ZE.1659

ACCESSORIES AND SPARE PARTS

MICROMETER SLIDES

- AE.1112** Object slide 76 x 26 mm with micrometer
50mm/500, 100 µm/division

ADDITIONAL LENSES

(for ZE.1659)

- AE.1850** Additional 0.7x lens. Working distance 233 mm
AE.1822 Additional 0.57x lens. Working distance 300 mm

ADDITIONAL LENSES

(for ZE.1624, ZE.1654, ZE.1670, ZE.1671, ZE.1626)

- AE.1855** Additional 0.3x lens. Working distance 250 mm.
Suitable with ST.1720, ST.1770, ST.1780 et ST.1785 stands
- AE.1870** Additional 0.44x lens. Working distance 180 mm.
Suitable with ST.1715, ST.1720, ST.1770, ST.1780 and ST.1785 stands
- AE.1856** Additional 0.5x lens. Working distance 150 mm.
Suitable with ST.1740. Maximum object size is 15 mm
- AE.1857** Additional 0.75x lens. Working distance 97 mm
- AE.1858** Additional 1.5x lens. Working distance 50 mm
- AE.1859** Additional 2.0x lens. Working distance 34 mm

ADDITIONAL LENSES

(for ZE.1629)

- AE.1805** Additional 0.3x lens. Working distance 330 mm.
Suitable with ST.1720, ST.1770, ST.1780 and ST.1785 stands
- AE.1806** Additional 0.5x lens. Working distance 198 mm.
Suitable with ST.1715, ST.1720, ST.1770, ST.1780 and ST.1785 stands
- AE.1807** Additional 0.75x lens. Working distance 125 mm
- AE.1808** Additional 1.5x lens. Working distance 62 mm
- AE.1809** Additional 2.0x lens. Working distance 42 mm

ADDITIONAL LENSES

(for ZE.1657)

- AE.1807** Additional 0.35x lens. Working distance 250 mm
- AE.1808** Additional 0.5x lens. Working distance 174 mm
- AE.1809** Additional 1.5x lens. Working distance 57 mm

PROTECTION WINDOWS

(to be screwed under the objectives)

- AE.1845** Protection window for all heads of ZE series except ZE.1659
- AE.1825** Protection window for ZE.1659.
Not suitable with additional lenses

DARK FIELD

- AE.1878** Dark field attachment for all stands with transmitted illumination
- AE.1879** Iris diaphragm suitable with AE.1878
- AE.1871** Object table for AE.1878 with ST.1760 stand.
Suitable to observe contact lenses or gems with an object slide

POLARIZATION

- AE.1890** Analyzer, in rotatable mount.
Not suitable with ZE.1659
- AE.1891** Polarizer in mount.
Suitable with ST.1740 and ST.1760
- AE.1892** Retardation plate gypsum 1st order red.
Suitable with polarizer AE.1891

MECHANICAL STAGES

- AE.1876** Plain stage 145 x 115 mm with 75 x 50 mm X-Y mechanical stage on ball bearings. Horizontal coaxial adjustment. Double Vernier with 0.1 mm graduations. Only with ST.1710, ST.1715 and ST.1740
- AE.1896** Stage 145 x 115 mm with central glass object plate and 75 x 50 mm X-Y mechanical stage on ball bearings. Horizontal coaxial adjustments. Double Vernier with 0.1 mm graduations. Only with ST.1740 and ST.1760
- AE.1877** Large stage 170 x 155 mm with 100 x 105 mm X-Y mechanical stage on ball bearings. For ST.1710, ST.1715 and ST.1740
- AE.1950** Large 390 x 390 mm stage with 360 x 360 mm X-Y mechanical stage. Only for ST.1720, ST.1770, ST.1780 and ST.1785

OBJECT STAGES

- AE.1884** Round object high-profile table with frosted glass filter. Interchangeable with dark field ST.1760
- AE.1885** Round object low-profile table with frosted glass filter. Interchangeable with dark field ST.1740

OBJECT PLATE - ø 94 mm

- AE.1880** Acrylic translucide object plate
- AE.1881** Glass transparent object plate
- AE.1882** Acrylic black/white object plate

FILTERS - ø 40 mm

- AE.1897** Frosted glass filter
- AE.1898** Blue filter

OBJECT HOLDER

- AE.5446** Orientable clamp for gems.
Interchangeable with object plate clamp

SPARE BULB AND FUSES

- SL.1868** 30 W 230 V incandescent bulb for ST.1750 stand
- SL.1869** 10 W 6 V halogen bulb for ST.1740 illumination
- AE.5252** Fuses for ST.1740 stand. Per 10 pieces

ACCESSORIES

- AE.5059** Projection 0.45x objective with C-mount for cameras with 1/2" sensor. To be placed over a 23.2 mm tube of a ZE series photo tube. Optional reticle available
- AE.5063** Projection 0.7x objective with C-mount for cameras with 2/3" sensor. To be placed over a 23.2 mm tube of a ZE series photo tube. Optional reticle available
- DC.1320** Projection 1x objective with C-mount
- DC.1324** Projection 0.5x objective with C-mount for cameras with 1/2" sensor. To be inserted into a 23.2 mm tube
- DC.1326** Projection 0.33x objective with C-mount for cameras with 1/3" sensor. To be inserted into a 23.2 mm tube
- AE.5006** Projection 0.6x objective with C-mount
- AE.5130** Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Need T2 adapter
- AE.5020** T2 adapter for Nikon D digital SLR cameras
- AE.5040** T2 adapter for Canon EOS digital SLR cameras
Other T2 adapters on request



ZE.1629 and AE.1796

STEREO MICROSCOPES



BE-50 series

Stereo microscopes of the BE-50 series with interchangeable objectives mounted in a slider are intensively used in the industry. The high depth of field and the extra large working distance are the main characteristics of this stereo microscope.

These characteristics allow users to work under the microscope with ease. Ideal for jewelers, watchmakers, soldering, quality inspection and so on.

A 44 cm flexible arm LED light source makes sure the object can be illuminated from any angle. The heavy, metal base makes this system very stable. Magnifications lie varies from 2.5x to 40x.



BE.1802

BE-50	
Dimensions	Weight
(h) 345 x (w) 130 x (d) 410 mm	7.0 kg



HIGHLIGHTS

- Professional stereo microscopes for extra long working distance
- Interchangeable magnifications from 2.5x up to 40x
- Overhanging stand
- Large working area
- LED illumination
- 10 years warranty



BE.7405 / BE.7410 / BE.7420

TECHNICAL SPECIFICATIONS

EYEPIECES

Pair WF 10x/20 mm

HEAD

Binocular 45° inclined tube. Interpupillary distance adjustable between 55 and 75 mm

STAND

Stable overhanging heavy base stand with pillar

FOCUSING ADJUSTMENT

Coarse adjustment with tension control

ILLUMINATION

Incident 1 W LED illumination 44 cm on flexible arm. Intensity is adjustable

OBJECTIVES

- Standard delivered with 0.5x fixed magnification objective, magnification 5x, field of view 40 mm. Working distance 250 mm
- Additional 1x fixed magnification objective available, magnification 10x, field of view 20 mm. Working distance 230 mm
- Additional 2x fixed magnification objective available, magnification 20x, field of view 10 mm. Working distance 119 mm

Other magnifications available with optional eyepieces up to 40x. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

ACCESSORIES AND SPARE PARTS

- BE.6005** Pair of HWF 5x/22 mm eyepieces
- BE.6010** Pair of HWF 10x/20 mm eyepieces
- BE.6015** Pair of HWF 15x/12 mm eyepieces
- BE.6020** Pair HWF 20x/10 mm eyepieces
- BE.6110** HWF 10x/20 mm eyepiece with micrometer
- BE.6099** Pair of eyecups

- BE.7405** 0.5x objective for BE-50 LED. Working distance 250 mm
- BE.7410** 1.0x objective for BE-50 LED. Working distance 230 mm
- BE.7420** 2.0x objective for BE-50 LED. Working distance 119 mm
- AE.1112** Micrometer slide, 50 mm/50 divisions

MODELS

	Binocular	0.5x objective	1.0x objective	2.0x objective	Working distance	LED illumination
BE.1802	•	•			250 mm	•
BE.1812	•		•		230 mm	•
BE.1820	•			•	119 mm	•

STEREO MICROSCOPES



P series

The microscopes of the P series are specifically designed for industrial purposes and come with both dual 10/30x and 20x/40x magnifications and by using of optional eyepieces this can result in magnifications from 5x to 80x.

These microscopes are equipped with a rack & pinion stand and a 360° rotatable head

The P series are compact and light weight, ideal microscopes for industrial applications either in a workplace or be taken to any other location



P-20 (60.200)



60.100 / 60.200	
Dimensions	Weight
(h) 315 x (w) 120 x (d) 190 mm	2.5 kg

HIGHLIGHTS

- Binocular models
- Easy to use
- 360° revolving rotatable head with 45° inclined tubes
- Secured WF 10x/20 mm eyepieces
- 10x/30x and 20x/40x magnification in revolving nosepiece
- Robust rack & pinion stand with powerful halogen or LED illumination
- LED illumination with rechargeable batteries for cordless use
- Incident and transmitted illuminations can be used simultaneously
- Light weight; easy to carry to any location
- 5 years warranty



P-10 (60.100)

TECHNICAL SPECIFICATIONS

EYEPIECES

Pair of secured wide field eyepieces WF10x/20 mm. Supplied with eyecups

HEAD

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

OBJECTIVES

- The P-10 and P-10 LED models are supplied with revolving 1x/3x objectives for total magnification of 10 and 30 times with field of views from 20 to 6.7 mm
- The P-20 and P20-8 LED models are supplied with revolving 2x/4x objectives for total magnification of 20 and 40 times with field of views from 10 to 5 mm

Using additional eyepieces magnification range can be 5 to 80x

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

STAND

Robust pillar stand with 35 mm coarse adjustment. Supplied with black/white object plate and 2 object clamps

ILLUMINATION

The P-10 and P-20 models are supplied with 10 W 12 V halogen transmitted and incident illumination and internal power supply. Both illuminators can be operated independently or simultaneously

The P-10 LED and P-20 LED models are supplied with high power LED transmitted and incident illumination. With 3 rechargeable batteries for maximum 35 hours continuous cordless operation. Both illuminators can be operated independently or simultaneously. Supplied with external mains adapter

TECHNICAL SPECIFICATIONS

CAMERAS

Euromex offers a wide range of industrial and laboratory grade cameras, see chapter 9 (Digital Solutions).

For P series, the camera replaces one of the eyepieces

PACKAGING

Supplied with power cord, dust cover, a spare fuse and user manual (and spare bulb for halogen models).

All packed in a polystyrene box

ACCESSORIES AND SPARE PARTS

- 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

- AE.1112** Micrometer slide, 50 mm/50 divisions
- PB.5245** Lens cleaning paper, 100 sheets per pack
- PB.5274** Isopropyl alcohol 99% (200 ml)
- PB.5275** Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower and cotton swabs

- 50.871** Black/white stage plate 94 mm diameter
- 50.873** Glass stage plate 94 mm diameter
- 50.875** Adjustable GEM object clamp for P series
- 50.876** Dark field attachment
- 50.882** Spare halogen bulb 12 V 10 W for P series (transmitted illumination)

- 50.961** Plastic case for P series



MODELS

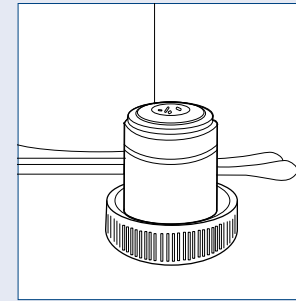
	45° head	1x/3x objective	2x/4x objective	Transmitted halogen illumination	Incident halogen illumination	Transmitted LED illumination	Incident LED illumination
P-10 60.100	•	•		•	•		
P-10 LED 60.110	•	•				•	•
P-20 60.200	•		•	•	•		
P-20 LED 60.210	•		•			•	•

How to keep the optics clean? PB.5275 Cleaning kit

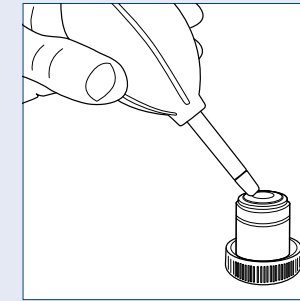
TECHNICAL
FACTS

Dust and dirt particles have a negative affect on image quality. Keeping the optical system of your microscope clean is essential for the best image quality and overall lifetime of your microscope.

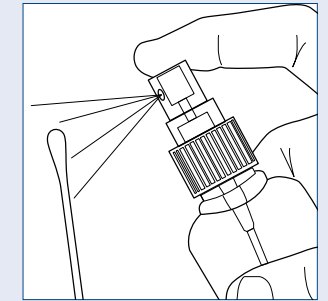
Dust and dirt on optical elements such as lenses, prisms and filters that are left unattended can become difficult - or even impossible - to remove and may cause mold



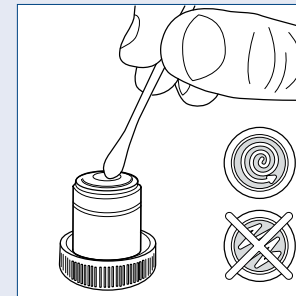
1 Place your objective or eyepiece on a secure location. Objectives can be screwed into the cover of an objective case, eyepieces can be placed in the microscope box. Condensers and collector lenses can stay in their place in the microscope



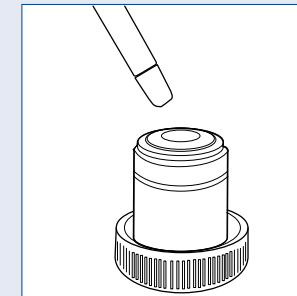
2 To prevent scratches on coatings and optical glass, try to remove dirt and dust that sticks to the optical surface first with an air-blower or pressurized dry air (oil-free and under moderate pressure version only)



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



4 Clean the lens by using the tip of the cotton swap or the lens paper⁽¹⁾. When cleaning a large lens surface, wipe with little pressure from the centre towards the periphery in a circular motion, do not use zig-zag motion. Discard each lens paper or cotton swap after a single use



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

6 Check and return. With the help of a magnifying glass check if the surface is clean and place the cleaned item back on the microscope



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

(1) Use enough lens paper so that solvents do not dissolve oils from your hands which can make their way through the paper on to the coated surface

MaterialsScience

Industry



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MaterialsScience

Industry

Microscopes for materials science applications have the specific objectives and other tools like incident illuminations, polarization and compensation filters. This allows precise observation of materials like metals, plastics, minerals, asbestos, glass, wood and chemical materials

Euromex offers a range of metallurgical microscopes, microscopes with rotatable stages and strain-free objectives for polarized light observation, microscopes for asbestos identification and inverted materials science microscopes



IS.1053-PLMi

iScope® for materials science

The iScope® microscope are supplied with specific attachments that turn the iScope® into a state-of-the-art material science microscope suitable for various applications

There are three types of materials science microscopes. Metallurgical and polarization microscopes and microscopes specifically for asbestos identification

IS.1053-PLMi	
Dimensions	Weight
(h) 585 x (w) 210 x (d) 480 mm	10.5 kg

1053-PLPOLRi	
Dimensions	Weight
(h) 590 x (w) 210 x (l) 475 mm	12.3 kg



HIGHLIGHTS

- EWF 10x/20 mm and EWF 10x/22 mm eyepieces
- Binocular and trinocular models
- Reversed quintuple revolving nosepiece
- Infinity corrected IOS objectives for material observation, polarization and asbestos research
- 216 x 150 mm rackless stage equipped with integrated 79 x 52 mm mechanical stage
- Ø 160 mm rotatable round stage for polarization models
- Diascopic 3 W NeoLED™ Köhler illumination
- Epi-NeoLED illumination for metallurgical models
- Epi-illumination 50 W for polarization models
- iCare sensor for energy saving
- CSS - Cable Storage System
- 10 years warranty



IS.1053-PLPOLRi

TECHNICAL SPECIFICATIONS

EYEPIECES

The metallurgical models are supplied with extended EWF 10x/20 mm (Ø 23.2 mm tube) eyepieces. Polarization models are supplied with a pair of EWF 10x/22 mm (Ø 30 mm tube) eyepieces, one eyepiece with cross hair and one eyepiece with a cross hair and micrometer reticle

Specific models for asbestos identification are supplied with HWF 12.5x/15 mm (Ø 30 mm tube) eyepieces and a Walton-Beckett reticle

HEAD

Binocular and trinocular Siedentopf type heads with 30° inclined tubes. Interpupillary distance from 48 to 76 mm. Two ± 5 diopter adjustments. A unique rotating system allows the ergonomic positioning of both tubes in a high (431 mm) and in a low position (397 mm).

The trinocular head 23.2 mm tube fits optional photo C-mount adapters with built-in 0.33x or 0.5x objective

NOSEPIECE

Revolving quintuple reversed nosepiece on ball bearings

OBJECTIVES

Plan PLMi IOS ⁽¹⁾	5x/0.10	10x/0.25	20x/0.40	S50x/0.65	S80x/0.90 ⁽⁴⁾	S100x/0.80 ⁽⁴⁾
Plan PLPOLi IOS ⁽²⁾	4x/0.10	10x/0.25	20x/0.40 ⁽⁴⁾	S40x/0.65	S60x/0.85 ⁽⁴⁾	S100x/1.25 ⁽⁴⁾
Plan PLi IOS ⁽³⁾	4x/0.10	10x/0.25	20x/0.40 ⁽⁴⁾	PLPHi S40x/0.65	S60x/0.85 ⁽⁴⁾	S100x/1.25 ⁽⁴⁾

(1) Plan PLMi infinity corrected objectives for material observation

(2) Plan PLPOLi strain free infinity corrected objectives for polarization

(3) Plan PLi infinity corrected objectives for asbestos research microscopes the S40x which is a plan phase contrast PLPHi infinity corrected objective

(4) Optional objectives

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

TECHNICAL SPECIFICATIONS

STAGES

- 216 x 150 mm rackless stage equipped with double slide holder and integrated 79 x 52 mm mechanical stage. The iScope® rackless stage has no protruding parts, enables more smooth movements and is safer working
- Ø 160 mm round stage for polarization models, 360° rotatable with Vernier and two object clamps. An optional 30 x 40 mm X-Y mechanical stage is available

STANDARD CONDENSERS

Standard height adjustable Abbe N.A. 1.25 condenser with iris diaphragm. Suitable for slider with dark field stop for magnifications up to maximum 400x. Optional height adjustable Abbe N.A. 0.9/1.25 swing-out condenser with iris diaphragm

CONDENSER FOR POLARIZATION MICROSCOPES

Height adjustable Abbe N.A. 1.25 condenser with iris diaphragm and 360° rotatable polarizer

CONDENSER FOR ASBESTOS RESEARCH MICROSCOPES

Height adjustable Abbe 1.25 phase contrast condenser supplied with slider with 10/40 annuli, green filter and alignment telescope

FOCUSING

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

DIASCOPIIC ILLUMINATION

Intensity adjustable 3 W Köhler NeoLED™ illumination with internal 100-240 V power supply. The larger aperture of NeoLED™ allows the optical systems of the iScope®

microscope to produce images at higher resolutions, very close to the theoretical diffraction limit of the optics. Other benefits for choosing the NeoLED™ are the low energy consumption, no heating and a long operating lifetime. The Köhler setting provides homogeneous illumination and high contrast

REFLECTED ILLUMINATION FOR METALLURGICAL MODELS

Metallurgical models are equipped with a reflected NeoLED™ illumination and external 100-240 V power supply. Supplied with a 0-90° polarization filter in slider, simple dark field stop, white, green, blue and yellow filters

REFLECTED ILLUMINATION FOR POLARIZATION MODELS

Polarization models are equipped with a 50 W 12 V halogen epi-illumination and external 100-240 V power supply. Supplied with 360° rotatable polarization filter, analyzer, Bertrand lens, 1 λ first red plate, 1/4 λ retardation plate, a quartz wedge, sliders with green/blue and white/polarizer filter

ICARE SENSOR

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

CSS – CABLE STORAGE SYSTEM

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

PACKAGING

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

SPECIFICATIONS (MICROSCOPES FOR POLARIZATION)

			IS.1052-PLPOLI	IS.1053-PLPOLI	IS.1052-PLPOLRI	IS.1053-PLPOLRI	Product number
Models	Binocular		•		•		
	Trinocular			•		•	
Eyepieces	EWF 10x / 22 mm, pair	Ø 30 mm	•	•	•	•	IS.6210
	EWF 15x / 16 mm, 1 piece	Ø 30 mm	0	0	0	0	IS.6215
	EWF 20x / 12 mm, 1 piece	Ø 30 mm	0	0	0	0	IS.6220
	EWF 10x / 20 mm, 1 piece With crosshair	Ø 30 mm	•	•	•	•	IS.6210-C
	EWF 10x / 20 mm, 1 piece. With crosshair and micrometer reticle	Ø 30 mm	•	•	•	•	IS.6210-CM
Diopter	Adjustment on both sides		•	•	•	•	
Nosepiece	Maximum objectives		4	4	4	4	
Objectives IOS	Plan PLPOLi ⁽¹⁾	4x / 0.12	•	•	•	•	IS.7904
	Plan PLPOLi ⁽¹⁾	10x / 0.25	•	•	•	•	IS.7910
	Plan PLPOLi ⁽¹⁾	20x / 0.40	•	•	•	•	IS.7920
	Plan PLPOLi ⁽¹⁾	S40x / 0.65	•	•	•	•	IS.7940
	Plan PLPOLi ⁽¹⁾	S60x / 0.85	0	0	0	0	IS.7960
	Plan PLPOLi ⁽¹⁾	S100x / 1.25	0	0	0	0	IS.7900
Stage	Ø160 mm stage, 360° rotatable		•	•	•	•	
Condensers	Swing-out 0.9/1.25 NA condenser		0	0	0	0	IS.9105
	Polarization condenser with gratuated 360° polarizer		•	•	•	•	
Diascopic illumination	3 W NeoLED™, Köhler		•	•	•	•	
	Filter White	Ø 45 mm	0	0	0	0	IS.9706
	Filter Green	Ø 45 mm	0	0	0	0	IS.9702
	Filter Blue	Ø 45 mm	0	0	0	0	IS.9700
	3 W NeoLED™ replacement unit		0	0	0	0	IS.9993
Polarization attachment with 50 W 12 V halogen epi-illumination with:							
	Polarizer 360°				•	•	IS.9708
	Analyzer		•	•	•	•	IS.9602
	Quartz wedge		•	•	•	•	IS.9604
	1 λ first red (530 nm) plate		•	•	•	•	IS.9610
	1/4 λ plate		•	•	•	•	IS.9612
	Bertrand lens		•	•	•	•	IS.9618
	Slider with green and blue filters				•	•	IS.9731
	Slider with analyzer and white filters				•	•	IS.9738
	110 and 240 V power supply				•	•	IS.9241

(1) Strain free

SPECIFICATIONS

(METALLURGICAL MICROSCOPES AND MICROSCOPES FOR ASBESTOS IDENTIFICATION)

			IS.1052- PLMi	IS.1053- PLMi	IS.1052- PLAi	IS.1053- PLAi	Product number
Models	Binocular		•		•		
	Trinocular			•		•	
Eyepieces	EWf 10x / 20 mm, pair	Ø 23.2 mm	•	•			IS.6010
	EWf 15x / 16 mm, pair	Ø 23.2 mm	0	0			IS.6015
	EWf 20x / 12 mm, pair	Ø 23.2 mm	0	0			IS.6020
	WF 10x / 20 mm, 1 piece. With crosshair	Ø 23.2 mm	0	0			IS.6010-C
	WF 10x / 20 mm, 1 piece. With crosshair and micrometer retide	Ø 23.2 mm	0	0			IS.6010-CM
	EWf 10x / 22 mm, pair	Ø 30 mm			0	0	IS.6210
	HWF 12.5x / 15 mm, 1 piece	Ø 30 mm			•	•	IS.6212
	HWF 12.5x / 15 mm, with Walton-Bracket, 1 piece	Ø 30 mm			•	•	IS.6212-W
Diopter	Adjustment on both sides		•	•	•	•	
Nosepiece	Maximum objectives		5	5	5	5	
Objectives IOS	Plan PLMi ⁽²⁾	5x / 0.12	•	•			IS.8105
	Plan PLMi ⁽²⁾	10x / 0.25	•	•			IS.8110
	Plan PLMi ⁽²⁾	20x / 0.40	•	•			IS.8120
	Plan PLMi ⁽²⁾	S50x / 0.70	•	•			IS.8150
	Plan PLMi ⁽²⁾	S80x / 0.90	0	0			IS.8180
	Plan PLMi ⁽²⁾	S100x / 0.80	0	0			IS.8100
	Plan PLi ⁽³⁾	4x / 0.12			•	•	IS.7204
	Plan PLi ⁽³⁾	10x / 0.25			•	•	IS.7210
	Plan PLi ⁽³⁾	20x / 0.40			0	0	IS.7220
	Plan phase PLPHi	S40x / 0.65			•	•	IS.8940
	Plan PLi ⁽³⁾	S60x / 0.85			0	0	IS.7260
	Plan PLi ⁽³⁾	S100x / 1.25			0	0	IS.7200
Stage	216 x 150 mm rackless stage with 79 x 52 mm X-Y mechanical stage		•	•	•	•	
Condensers	Standard Abbe condenser		•	•			IS.9102
	Swing-out 0.9/1.25 NA condenser		0	0	0	0	IS.9105
	Phase contrast condenser with 10/40 annuli in slider and green filter Ø 45 mm				•	•	IS.9162 IS.9702
	and alignment telescope Ø 30 mm			•	•	IS.9149	
Diascopic illumination	3 W NeoLED™, Köhler		•	•	•	•	
	Filter White	Ø 45 mm	0	0	0	0	IS.9706
	Filter Green	Ø 45 mm	•	•	0	0	IS.9702
	Filter Blue	Ø 45 mm	•	•	0	0	IS.9700
	3 W NeoLED™ replacement unit		0	0	0	0	IS.9993

(2) No cover glass correction

(3) Cover glass correction

SPECIFICATIONS

(METALLURGICAL MICROSCOPES AND MICROSCOPES FOR ASBESTOS IDENTIFICATION)

			IS.1052- PLMi	IS.1053- PLMi	IS.1052- PLAi	IS.1053- PLAi	Product number
Metallurgical attachment with NeoLED™ epi-illumination with:							
	Polarizer 0-90°	Ø 45 mm	•	•			IS.9230 IS.9601
	Simple dark field	Ø 45 mm	•	•			IS.9600
	Filter White	Ø 45 mm	•	•			IS.9726
	Filter Yellow	Ø 45 mm	•	•			IS.9724
	Filter Green	Ø 45 mm	•	•			IS.9722
	Filter Blue	Ø 45 mm	•	•			IS.9720
	External mains adapter	100-240 Vac/ 7.5Vdc	•	•			IS.9975

ACCESSORIES AND SPARE PARTS

AE.5130 Universal SLR adapter with built-in 2x lens
without T2 ring. For standard 23.2 mm tube

AE.5040 T2 ring for Canon EOS SLR digital camera

AE.5025 T2 ring for Nikon D 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, n = 1.482 (25 ml)

PB.5274 Cleaning liquid, isopropanol alcohol 99% (200 ml)

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



IS.1053-PLAi / IS.1053-PLPOLi

Oxion Inverso for materials science

The Oxion Inverso inverted microscopes for materials science are intensively used for observation of large pieces of material made from metal, wood, plastics and more

The Oxion Inverso is available with a powerful 50 W halogen brightfield contrast illumination and a large mechanical stage. The polarization and color filters makes this instrument suitable for a wide variety of applications



OX.2153-PLM



OX.2153-PLM / OX.2653-PLM	
Dimensions	Weight
(h) 488 x (w) 231 x (d) 555 mm	10.8 kg

HIGHLIGHTS

- Materials Science applications
- Observation of all types of materials
- Brightfield with polarization options
- Long working IOS plan achromatic objectives
- Long working IOS plan semi apochromatic objectives
- Revolving quintuple nosepiece
- 50 W halogen Köhler illumination
- 10 years warranty



OX.2153-PLM

TECHNICAL SPECIFICATIONS

EYEPIECES

Pair of DIN HWF plan 10x/22 mm eyepieces

NOSEPIECES

Revolving quintuple nosepiece on ball-bearings

HEADS

Trinocular 45° inclined tubes with extended low and high positions for eyepieces. One diopter adjustment on left eyepiece. Interpupillary distance of 54 to 75 mm. Trinocular head with 100-0 % and 80-20 % positions

OBJECTIVES

Infinity color corrected long working distance 5x/0.15, 10x/0.14, 20x/0.45 plan achromatic IOS objectives and a plan semi apochromatic S50x/0.55 IOS objective. Model OX.2153-PLM also has plan semi apochromatic S100x/0.80 IOS objective. Not corrected for cover glass thickness. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

STAGE

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

- metallic insert standard with Ø 12 mm diameter hole and Ø 25 mm diameter hole
- metallic insert with hole for mechanical stage

CONDENSER

Abbe condenser with iris diaphragm

FOCUSING ADJUSTMENT

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

ILLUMINATION

Transmitted Köhler 50 W halogen Intensity adjustable with internal 100-240 V power supply. Fuse holder 3.15 A / 250 V

POLARIZATION

Standard polarization filter and 360° rotating analyzer

FILTERS

Standard blue and green filter

PACKAGING

Supplied with power cord, dust cover, blue and green filters and user manual. Microscope supplied in an aluminium transport case

ACCESSORIES AND SPARE PARTS

EYEPIECES

- OX.6010** HWF 10x/22 mm eyepiece
- OX.6015** HWF 15x/16 mm eyepiece
- OX.6110** HWF 10x/22 mm eyepiece with micrometer reticule
- OX.6099** Pair of eyecups



Large stage with X-Y mechanical stage

OBJECTIVES

- OX.8205** Plan achromatic PLM 5x/0.14 IOS objective.
Working distance 20 mm
- OX.8210** Plan achromatic PLM 10x/0.25 IOS objective.
Working distance 16 mm
- OX.8220** Plan achromatic PLM 20x/0.40 IOS objective.
Working distance 7.8 mm
- OX.8250** Plan semi apochromatic PLM S50x/0.55 IOS objective.
Working distance 7.9 mm
- OX.8200** Plan semi apochromatic PLM S100x/0.80 IOS objective.
Working distance 2.1 mm

STAGE AND ACCESSORIES

- OX.9500** Mechanical coaxial X-Y 120 x 78 mm stage
- OX.9506** Transparent glass insert with hole
- OX.9508** Metal insert with Ø 12 mm hole
- OX.9509** Metal insert with Ø 25 mm hole
- OX.9535** Metal insert for Petri dish 35 mm diameter
- OX.9599** Universal culture-dish holder for translation stage

MODELS

	LWD plan 5x/10x/20x objectives	LWD plan apochromatic 50x objective	LWD plan apochromatic 100x objective	Mechanical stage
OX.2653-PLM	•	•		•
OX.2153-PLM	•	•	•	•

LWD = long working distance

FILTERS

- OX.9700** Blue filter
- OX.9702** Green filter
- OX.9703** IR cut-off filter

PHOTO ADAPTERS

- OX.9810** CS/C mount with 1.0x objective
- OX.9833** CS/C mount with 0.33x objective for 1/3" sensors cameras
- OX.9850** CS/C mount with 0.5x objective for 1/2" sensors cameras

MISCELLANEOUS

- AE.5120** Standard 23.2 mm diameter tube for Oxion Inverso photo port
- AE.5130** Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes
Needs T2 adapter and AE.5120
- AE.5025** T2 adapter for Nikon D digital SLR cameras
- AE.5040** T2 adapter for Canon EOS digital SLR cameras
- AE.3199** Glass fuses 3.15 A 250 V packed, per 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 and cotton swabs

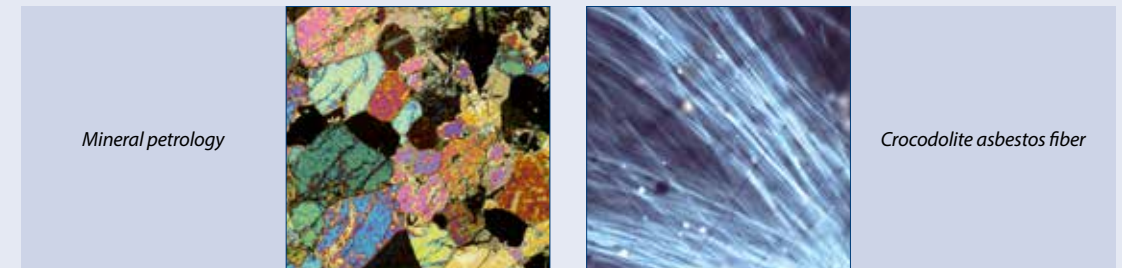
About PETROLOGICAL MICROSCOPY

TECHNICAL FACTS

Euromex microscopes for polarization are intensively used in petrology and optical mineralogy to identify rocks, minerals in thin sections and asbestos fibers

Conventional brightfield microscopes are turned into a petrological microscope by:

- replacing the conventional rectangular stage with a circular 360° rotating stage
- adding strain free objectives for correct color rendering
- adding a removable polarization filter into the light path
- adding a second removable 360° rotating polarization filter - called analyzer - into the light path
- adding a Bertrand lens* for observation of conoscopic interference fringes
- adding compensation wave plates
- adding reflected illumination

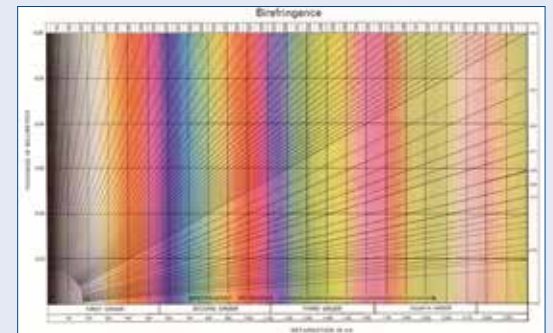


Mineral petrology

Crocokolite asbestos fiber

The most common compensators are:

- 1 λ wave plate is often referred to a first-order red plate or as a sensitive tint because it produces the interference color having a tint similar to the first-order red seen in the Michel-Levy chart. Introduce an optical path difference of circa 540-570 nm
- 1/4 λ wave plate is often referred to as a mica plate and is usually made from quartz or muscovite crystals sandwiched between two glass windows. Introduce an optical path difference of circa 140 nm
- quartz wedge is the simplest compensator, which is utilized to vary the optical path length difference to match that of the specimen
- Other attachments like DSO (Dispersion Staining Objectives) and phase contrast equipment can be added for specific identification of asbestos fibers



Michel-Levy chart

* A so-called Bertrand lens - positioned between the analyzer and the eyepieces allows the microscopist to observe interference fringes. These images appear in the objective rear focal plane when an optically anisotropic specimen is viewed between crossed polarizers

Oxion for materials science

The microscopes of the Oxion materials science series are specifically designed for the observation of many types of materials in research laboratories of universities or professionals in industrial research centers. Thanks to the high resolution optics and state-of-the-art components, these microscopes can be widely used for routine and fundamental applications



OX.3245



OX.3245	
Dimensions	Weight
(h) 430x (w) 180 x (d) 430 mm	9.9 kg

HIGHLIGHTS

- Trinocular model
- HWF 10x/22 mm eyepieces
- Reversed quintuple nosepiece
- Plan M-IOS objectives
- Transmitted 3 W NeoLED™ illumination
- Reflected 3 W NeoLED™ illumination
- Polarization and analyzer filters
- 10 years warranty



TECHNICAL SPECIFICATIONS

EYEPIECES

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

HEAD

Trinocular Siedentopf heads with 30° inclined tubes. Interpupillary distance from 48 to 75 mm. Diopter ± 5 diopter adjustment on both eyepieces. A unique rotating system allows the ergonomic positioning of both tubes in an upper (431 mm) and in a lower position (397 mm)

NOSEPIECE

Reversed nosepiece for a maximum of 5 objectives on ball bearings

OBJECTIVES (IOS-INFINITY CORRECTED SYSTEM)

Standard configurations equipped with infinity corrected DIN long working distance LWD plan M-IOS 5x/0.14, 10x/0.25 and plan semi apochromatic LWD 50x/0.55 and 100x/0.80 objectives. Long working distance LWD plan 20x objective is available as option. All optics have an anti-reflection coating for maximum light throughput and are anti-fungus treated

FOCUSING

Coaxial coarse and fine adjustments, 200 graduations, 1 μm per graduation, 200 μm per rotation, total travel approximately 28 mm.

Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control



Reflected illumination unit

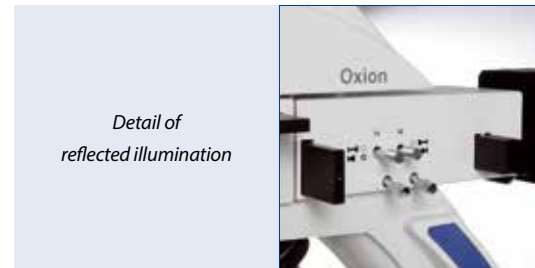
TECHNICAL SPECIFICATIONS

STAGE

150 x 140 mm stage with integrated mechanical 76 x 50 mm X-Y stage. A ceramic stage is also available on request

CONDENSER (FOR TRANSMITTED ILLUMINATION)

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



REFLECTED EPI-ILLUMINATION

Intensity adjustable 3 W NeoLED™ Köhler illumination with external 110-240 V power supply. Push-pull type 90° rotatable polarizer and fixed analyzer. Built-in condenser with field and aperture iris diaphragm. Oblique lighting feature

PACKAGING

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

TRANSMITTED ILLUMINATION

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

ACCESSORIES AND SPARE PARTS

- AE.3210** HWF10x/22mm eyepiece
- AE.3215** HWF 15x/13mm eyepiece
- AE.3223** HWF10x/22mm eyepiece with 10mm/100 micrometer
- AE.3225** Pair of eyecups

- AE.3172** Plan achromatic M-IOS DIN PL 5x/0.14 objective. Working distance 20.5 mm
- AE.3173** Plan achromatic M-IOS DIN PL 10x/0.25 objective. Working distance 16 mm
- AE.3175** Plan achromatic M-IOS DIN PL 20x/0.40 objective. Working distance 7.8 mm
- AE.3177** Plan semi apochromatic M-IOS DIN 50x/0.55 objective. Working distance 7.9 mm
- AE.3179** Plan semi apochromatic M-IOS DIN 100x/0.80 objective. Working distance 2.1 mm

- AE.3185** Slider with dark field stop for transmitted illumination (only for objectives 10x, 20x and S40x)

- AE.3190** Polarizer/Analyzer set for transmitted illumination
- AE.3192** Polarizer slider for nosepiece
- AE.3194** Polarizer for lamp house

- AE.3193** Analyzer for reflected illumination unit
- AE.3195** Polarizer, 360° rotatable (for reflected illumination unit)

- AE.3196** Frosted filter 45 mm, sits on lamp house
- AE.3198** Blue filter 45 mm, sits on lamp house
- AE.3200** Yellow filter 45 mm, sits on lamp house
- AE.3202** Green filter 45 mm, sits on lamp house

- AE.3205** Blue interference 480 nm filter (for reflected illumination unit)
- AE.3206** Green interference 520-570 nm filter (for reflected illumination unit)
- AE.3207** Red interference 630-750 nm filter (for reflected illumination unit)
- AE.3208** White color balance interference filter (for reflected illumination unit)

- AE.5120** Standard 23.2 mm diameter tube for Oxion photo port
- AE.5130** Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Needs T2 adapter and AE.5120
- AE.5025** T2 adapter for Nikon D digital SLR cameras
- AE.5040** T2 adapter for Canon EOS digital SLR cameras

- OX.9810** C-mount with 1.0x objective
- OX.9833** C-mount with 0.33x objective for 1/3" sensors cameras
- OX.9850** C-mount with 0.5x objective for 1/2" sensors cameras

- AE.3199** Glass fuses 3.15 A 250 V, 10 pieces

- PB.5245** Lens cleaning paper, 100 sheets
- PB.5274** Cleaning liquid, isopropanol alcohol 99% (200ml)
- PB.5275** Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower and cotton swabs

MODELS

	Trinocular	M-IOS 5x/10x/20x/50x objectives	M-IOS 100x objective	Transmitted illumination 3 W NeoLED™	Reflected illumination 3 W NeoLED™
OX.3240	•	•		•	•
OX.3245	•	•	•	•	•

B+ series for materials science

The well-equipped microscopes of the B+ series for materials science are especially configured for observation of all kinds of materials such as metals, plastics, wood, glass, etc. These microscopes are extensively used in the research and quality assurance laboratories

BINOCULAR 86.185 / 86.185-LED	
Dimensions	Weight
(h) 375 x (w) 210 x (d) 460 mm	7.0 kg

TRINOCULAR 86.189 / 86.189-LED	
Dimensions	Weight
(h) 470 x (w) 210 x (d) 460 mm	7.2 kg



86.185

HIGHLIGHTS

- Binocular and trinocular models
- WF10x/22 mm eyepieces
- Reversed quintuple nosepiece
- Plan M-IOS objectives
- Polarizer and analyzer
- Integrated mechanical stage
- Reflected NeoLED™ illumination
- Warranty 5 years



86.189

TECHNICAL SPECIFICATIONS

EYEPIECES

Wide field WF10x/22mm eyepieces

HEAD

Binocular and trinocular Siedentopf models have 30° inclined tubes interpupillary distance of 48 to 75 mm and diopter adjustment on left eyepiece

NOSEPIECE

Revolving quintuple reversed nosepiece on ball-bearings

OBJECTIVES

Standard equipped with infinity corrected achromatic DIN plan M-IOS 5x/0.12, 10x/0.25, 20x/0.40, 50x/0.70 IOS objectives. Optional plan M-IOS 80x/0.80 and 100x/0.85 DIN IOS objective are also available.

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

FOCUSING

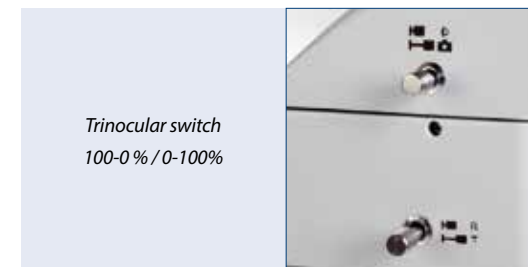
Coaxial coarse and fine adjustments, 200 graduations, 1 µm per graduation, 200 µm per rotation, total travel approximately 23 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control

STAGE

Integrated 125 x 135 mm stage with 75 x 35 mm X-Y mechanical stage. Double nonius 0.1mm

CONDENSER

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



Trinocular switch
100-0% / 0-100%

TECHNICAL SPECIFICATIONS

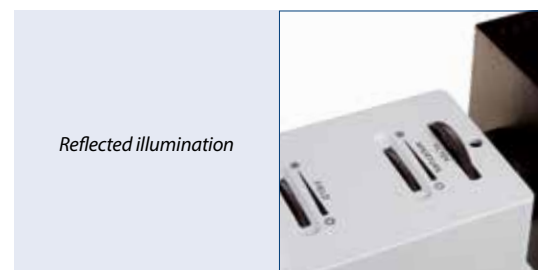
ILLUMINATION

Transmitted intensity adjustable NeoLED™ illumination with 110-240 V internal power supply /charger and 3 NiMH AA batteries or 20 W halogen illumination with internal power supply (110 V and 230 V versions available)

Reflected intensity adjustable 3W NeoLED™ Köhler illumination with external power supply, push-pull type rotatable polarizer and push-pull analyzer, built-in condenser with iris diaphragm and field iris diaphragm. Integrated rotating filter disc with green, blue, yellow and white filters



Push-pull polarizer and analyzer



PACKAGING

Supplied with power cord, dust cover, a spare fuse and user manual. Models with a 20 W halogen illumination are supplied with a spare bulb and a blue filter. All packed in a polystyrene box

ACCESSORIES AND SPARE PARTS

- 86.573** HWF 15x/12 mm eyepiece
- 86.574** HWF 10x/18 mm eyepiece (with micrometer 10mm/100 reticule)
- 80.839** Eyecup for ø 28 mm tube

- 86.527** Plan M-IOS DIN 5x/0.12 infinity corrected objective. Working distance 26.1 mm
- 86.529** Plan M-IOS DIN 10x/0.25 infinity corrected objective. Working distance 20.20 mm
- 86.531** Plan M-IOS DIN 20x/0.40 infinity corrected objective. Working distance 8.80 mm
- 86.535** Plan M-IOS DIN 50x/0.70 infinity corrected objective. Working distance 3.68 mm
- 86.538** Plan M-IOS DIN 80x/0.80 infinity corrected objective. Working distance 1.25 mm
- 86.539** Plan M-IOS DIN 100x/0.85 infinity corrected objective. Working distance 0.40 mm

- 86.851** Polarizing attachment for transmitted halogen illumination
- 86.852** Polarizing attachment for transmitted LED illumination

- 86.806** Mirror adapter for B and B+ series with halogen illumination only

- 86.860** Köhler diaphragm with centering, to be mounted on lamp house (only suitable for models with halogen illumination)
- 86.172** Dark field stop to be placed in filter holder (transmitted illumination). Suitable for objectives from 10x up to S40x

- AE.5130** Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Need T2 adapter
- AE.5020** T2 adapter for Nikon D digital SLR cameras
- AE.5040** T2 adapter for Canon EOS digital SLR cameras
Other T2 adapters on request

- AE.5202** Blue filter ø 32 mm
- AE.5203** Yellow filter ø 32 mm
- AE.5204** Neutral density filter ø 32 mm
- AE.5205** Blue acrylic filter ø 32 mm
- AE.5207** Blue filter acrylic ø 31.8 mm

- 86.889** Spare halogen bulb 20 W / 6 V
- 86.101** Spare LED module for B series
- 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
- PB.5274** Cleaning liquid, isopropanol alcohol 99% (200ml)
- PB.5275** Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower and cotton swabs

MODELS

	Binocular	Trinocular	Transmitted 20 W halogen illumination	Transmitted illumination LED	Reflected illumination NeoLED™
86.185	•		•		•
86.185-LED	•			•	•
86.189		•	•		•
86.189-LED		•		•	•

Digital Solutions

Industry



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- HD CAMERAS PAGE 262
- WIFI CAMERA PAGE 265
- TABLET CAMERA PAGE 266
- CCD CAMERA PAGE 268
- ADAPTERS PAGE 270



Digital Solutions

Industry

The Euromex digital industrial solution product range allows you to create your personal digital workstation. When you will be measuring and reporting a wide range of samples such as grain analysis, particle analysis and other material or industry samples, Euromex offers you the perfect matching solution

Euromex digital industrial products incorporate all latest available technology in this field like WiFi, HDMI and sCMOS sensors. Our digital solutions packages include the powerful ImageFocus software for image analysis

USB CAMERAS

ENTRY LEVEL
CAMERAS FOR
INDUSTRY



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 of images and videos, the software allows measurements on still and live images and to perform annotations on captured images. Compatible with Windows XP, Vista, 7, 8 and 10, both 32 and 64 bits configurations

CMEX

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	1/3"	3.6x3.6	1280x1024 640x480	15 30	10 bits	24 bits	55	72	1.3	DC.1300c
CMEX- 3	3.2	CMOS	1/2"	3.2x3.2	2048x1536 1024x768 640x480	10 25 40	10 bits	24 bits	44	72	1.3	DC.3000c
CMEX- 5	5.0	CMOS	1/2.5"	2.2x2.2	2592x1944 1280x960 1024x768 640x480	5 21 25 38	10 bits	24 bits	42	65	1.3	DC.5000c

The CMEX 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 and a 0.45x C-mount objective, except the CMEX-1 (DC.1300c) that is supplied with a 0.35x C-mount objective

PROFESSIONAL
CAMERAS
FOR INDUSTRY



CMEX Pro USB-2 cameras with CMOS sensor

The CMEX-3 Pro and CMEX-5 Pro are equipped with a CMOS sensor with 12 bits grayscale conversion and a 24 bits color rendering. The CMEX cameras are equipped with a USB-2 data interface and supplied with ImageFocus 4 software

Besides capturing of images and videos, the software allows measurements on still and live images and to perform annotations on captured images. Compatible with Windows XP, Vista, 7, 8 and 10, both 32 and 64 bits configurations

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	Product number
CMEX-3 Pro	3.2	CMOS	1/2"	3.2 x 3.2	2048x1536 1024x768 640x480	10 25 40	12 bits	24 bits	45	72	1.5	DC.3000p
CMEX-5 Pro	5.0	CMOS	1/2.5"	2.2 x 2.2	2592x1944 1280x960 1024x768 640x480	5 21 25 38	12 bits	24 bits	45	65	1.5	DC.5000p

The CMEX Pro cameras are supplied in a deluxe carrying case 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 a 0.45x C-mount objective



sCMEX USB-2 cameras with Scientific sCMOS sensor

The sCMEX-1 and sCMEX-3 cameras are equipped with a scientific sCMOS sensor with 16 bits grayscale conversion and an outstanding 36 bits color rendering. Suitable for brightfield, dark field and fluorescence. The sCMEX cameras are equipped with a USB-2.0 and supplied with ImageFocus 4 software

Besides capturing of images and videos, the software allows measurements on still and live images and to perform annotations on captured images. Compatible with Windows XP, Vista, 7, 8 and 10, both 32 and 64 bits configurations

	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	Product number
sCMEX- 1	1.3	sCMOS	1/3"	3.6 x 3.6	1278 x 1038 664 x 512	25 39	16 bits	36 bits	55	72	1.5	DC.1300s
sCMEX- 3	3.0	sCMOS	1/2.8"	2.5 x 2.5	2048 x 1536 1024 x 768 684 x 512	11 27 38	16 bits	36 bits	55	69	1.5	DC.3000s

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 and a 0.35x C-mount objective

sCMEX



DC.5000i

Euromex 5 Mpix 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 have a USB-2 interface for connection with a computer and is supplied with ImageFocus4 software

Besides capturing of images and videos, this software allows measurements on still and live images and to perform annotations on captured images. The software has specific functions for fluorescence like combining capture fluorescence images. Compatible with Windows XP, Vista, 7, 8 and 10, both 32 and 64 bits configurations

MODEL

	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	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 aluminium 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 directly mounted on microscopes with a C-mount adapter. For microscopes with a standard 23.2 mm tube, the 0.67x objective for 2/3" cameras is needed (reference DC.1328) sold separately

USB CAMERAS

USB-3.0
CAMERAS FOR
INDUSTRY

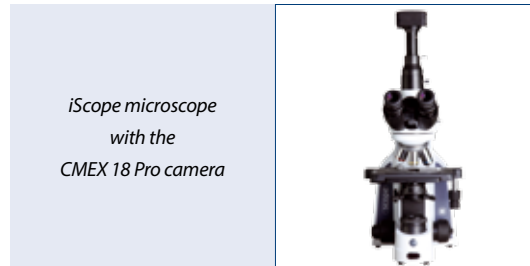
FEATURED



CMEX-10 PRO and CMEX-18 PRO USB-3.0 camera

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

Besides capturing of images and videos, the software allows measurements on still and live images and to perform annotations on captured images. Compatible with Windows XP, Vista, 7, 8 and 10, both 32 and 64 bits configurations. A 2Gb RAM 2.8 GHz computer and 17 inch display is recommended



DC.18000p

	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	Product number
CMEX-10 Pro	CMOS	1/2.3"	1.67x1.67	3584x2746	7.2	12 bits	24 bits	35.5	63.5	0.31	DC.10000p
				1792x1372	24.5						
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-18 camera is supplied in a carton box with USB-3 cable, 30.0 and 30.5 mm adapters to use with stereo microscopes, 1mm/100 (10µm/division) calibration slide and a 0.5x C-mount objective

SOFTWARE

FREE UPDATES
AVAILABLE ON
EUROMEX.COM



ImageFocus 4 software

The software is compatible with all above mentioned USB-2 cameras.

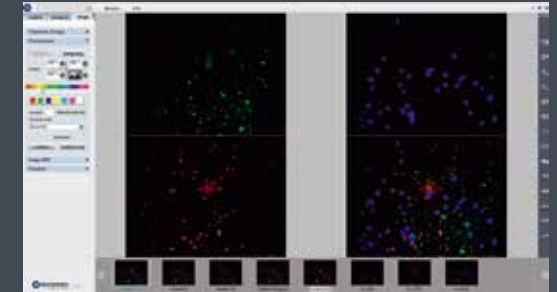
Besides live imaging, the software captures images in Jpeg, Tiff or Bmp formats or video recording in Avi format

ImageFocus 4 has a wide range of functions like:

- 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 like combining capture fluorescence images
- Compatible with Windows XP, Vista, Windows 7, 8 and 10, both 32 and 64 bits configuration

IMAGE FOCUS 4

DC.1300c / DC.3000c / DC.5000c
DC.3000p / DC.5000p
DC.1300s / DC.3000s
DC.5000i
VC.3036



ImageFocus Alpha software

The ImageFocus Alpha software is compatible with the mentioned USB-3 cameras.

Besides live imaging, the software captures images in several formats like Jpeg, Tiff or Bmp or video recording in Avi format

ImageFocus Alpha has a wide range of functions like:

- Measuring, segmentation & count, stitching of images, Extended Dept 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 like combining capture fluorescence images
- Compatible with Windows XP, Vista, Windows 7, 8 and 10, both 32 and 64 bits configuration

IMAGE FOCUS ALPHA

DC.18000p / DC.10000p
DC.5000-WIFI



High definition HD1080p and 720p CMOS color cameras with HDMI and USB-2 interfaces

VC.3036

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

The cameras are equipped with high sensitive sensors for low and intense light conditions and also suitable for coaxial illumination and machine vision applications

MODEL

MODEL	Sensor	Sensor size (inches)	Pixels size (µm)	Resolutions	Grayscale conversion	Color rendering	Signal/ Noise(db)	Dynamic (db)	Sensitivity (V)	Product number
HD-Ultra HDMI/USB2	Sony CMOS	1/2.8"	2.8 x 2.8	3264 x 1836 1920 x 1080 1080p video HDMI 60 fps	16 bits	36 bits	55	69	510mV	VC.3036
HD-Lite HDMI/USB2	Aptina CMOS	1/2.5"	2.2 x 2.2	2592 x 1944 1920 x 1080 1080p video HDMI 15 fps	16 bits	24 bits	40.5	60	1V	VC.3031
HD-Mini HDMI	CMOS	1/2.5"	5.7 x 4.28	1080 x 720 HDMI 30 fps	8 bits	24 bits	38	70	1.4V	VC.3030

HIGHLIGHTS

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



Back panel of VC.3036

The real time images generated with these camera provide excellent color rendering with frame speeds up to 60 fps. All settings are done automatically and therefore very user friendly. Once connected directly to a HDMI screen, TV or beamer with HDMI input, one can use the mouse-driven onboard software of the HD-Ultra and HD-Lite to capture and save images and videos (.avi format) on the integrated SD memory card.

A menu can be displayed right on screen, for live viewing or capturing of images and videos. Captured images and videos can be very easily reviewed without any need of a computer and the HD-Ultra even offers a full range of measuring options. These key properties make the cameras ideal for real time inspection, education and live demonstrations

Cameras are supplied with a C-mount and can be connected to all Euromex microscopes using optional C-mount adapters. The HD-Mini camera is supplied with 0.45x C-mount adapter for standard 23.2 mm tube

Users can also connect the HD-Ultra and HD-Lite camera to a computer using the USB-2 interface. The supplied ImageFocus 4 software allows more camera and image controls, annotations and measuring functions on live and captured images. Compatible with Windows XP, Vista 7, 8 and 10, both 32 and 64 bits

The HD-Mini is solely connected via a HDMI input and controlled by buttons on the camera and comes without

software. Captured images and videos (.avi format) are saved to the on-board SD memory card

PACKAGING

The HD-Ultra and HD-Lite 1080p cameras (ref. VC.3036 & VC.3031) are supplied with USB-2 (A-A type) cable, USB-2 mouse, 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 power supply

The HD-Ultra cameras need a 0.35x C-mount adapter and the HD-Lite cameras need a 0.45x C-mount adapter to connect them to microscopes. For microscopes with a standard 23.2 mm tube, the optional 0.33x objective for 1/3" cameras (reference DC.1326) is required. For other microscope tubes, please refer to our camera adapter guide. Supplied with Image Focus 4 software, Window XP and higher

The HD-Mini 720p camera (ref. VC.3030) is supplied in a carton box with USB-2 mouse 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscope and with 23.2mm tube C-mount adapter. Supplied without USB-2 cable

COMPUTER CONTROLLED VERSUS STAND-ALONE

There are two ways to use the HD-Ultra (ref. VC.3036) and HD-Lite (ref. VC.3031) cameras, computer controlled or as stand-alone system

STAND-ALONE

No need to open or start a computer or any computer knowledge to use a camera. This results in faster, more flexible and compact working conditions. Simply plug the camera to a high resolution HDMI monitor or TV and the system is ready to go. Ideal for quality control systems etc. Although most settings are done automatically by the camera, one can use the supplied mouse to control the camera via a user retrievable on-screen menu. The mouse is connected directly to the camera. Very intuitive controls allow users to capture and save images and to record videos on the integrated SD memory card

COMPUTER CONTROLLED

Users who want more camera controls and more measurements functions, can connect the camera to a

computer and take benefit of the power of the Euromex ImageFocus v4 software. It runs on Windows XP, Vista 7, 8 and 10, both 32 and 64 bits and is supplied with the camera package. Euromex supplies free updates on www.euromex.com. Besides live imaging and measuring functions on live and captured images, the software saves images in JPG, TIFF or BMP formats or recording videos in .avi format. The software allows measurements on linear sections, angles and surfaces, and also full control over the camera parameters like manual or automatic exposure time, white balance, adjustments of brightness, contrast and saturation on live and captured images. Specific functions for fluorescence like histogram adjustments and combining captured fluorescence images are also included in ImageFocus 4 software

	HD-Ultra	HD-Lite	HD-Mini
Sensor	Sony sensor	Aptina sensor	-
Format	1/2.8", HDTV 1080p (50/60 Hz)	1/2.5", HDTV 1080p (50/60 Hz)	1/2.5", HDTV 720p (50/60 Hz)
Pixels	3264 x 1836 (capture mode), 1920 x 1080 pixels (live view), HDMI 60 fps USB 30 fps	2592 x 1944 (capture mode), 1920 x 1080 pixels (live view), HDMI 15 fps USB 15fps	- 1080 x 1720 pixels - -
Video	1080p pixels video recording mode	1080p pixels video recording mode	720p pixels video recording mode
Scan mode	Progressive scan	Progressive scan	Progressive scan
Noise	3D Noise Reduction function	3D Noise Reduction function	Noise Reduction function
White balance	Automatic/manual	Automatic/manual	Automatic
Interfaces	Digital HDMI, USB 2	Digital HDMI, USB 2	Digital HDMI
Storage	Standard high speed 8 Gb SD memory card or to USB-2	Standard 4 Gb SD memory card or to USB-2	Standard high speed 4 Gb SD memory card
Camera buttons	On/Off	On/Off	Videostream/freeze, AEWB on/off, save image, cursor on/off
Mounting	C-mount interface	C-mount interface	C-mount interface
Power supply	External main adapter 100-240 Vac to 12Vdc/2A	External main adapter 100-240 Vac to 12Vdc/2A	External main adapter 100-240 Vac to 5Vdc/1A
Operation	0 – 60° C, 45-85 % humidity	0 – 60° C, 45-85 % humidity	-10 – 40° C, 30-80 % humidity
Storage temperature	-20 to 70° Celsius	-20 to 70° Celsius	-20 to 60° Celsius
Product number	VC.3036	VC.3031	VC.3030



WIFI CAMERAS
FOR EDUCATION
AND SCIENCE

FEATURED

CMEX-WIFI 5.0 MP digital WiFi camera with 1/2.5 inch CMOS sensor

DC.5000-WIFI

The CMEX-WIFI 5 camera is equipped with a 5 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 and Windows operating systems

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



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

Apps for Android for this camera are supplied on cd (Android) 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. Also supplied with the camera on cd

The camera is powered by the included USB charger or a computers USB port. Standard C-mount mounting with 0.45x C-mount objective included

MODEL

	Sensor	Sensor size (inches)	Pixels size (µm)	Resolutions	Grayscale conversion	Color rendering	Signal/ Noise(db)	Dynamic (db)	Sensibility V/lux-sec	Product number
CMEX-WIFI5	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 carton box with USB-2 cable, 30.0 and 30.5 mm adapters to use with stereo microscopes, and a 0.45x C-mount objective



ProPad tablet with microscope camera and keyboard-docking station

The ProPad Full HD (1280x800) display reveals bright colours and crisp, microscopic images.

The ProPad consists out of a high quality microscope camera system and a fully detachable tablet running the latest ImageFocus versions. 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 capture and measuring



HIGHLIGHTS

- 10.1" Tablet with microscope camera
- 1280 x 800 pixels HD touchscreen
- Full Windows 8.1, 32 bit system
- 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 keyboard uses a magnetic docking solution so you can loosen it easily and snap on the ProPad



ProPad and keyboard-docking station



SPECIFICATION

Processor	Quad Core 1.33 GHz with HD graphics processor
Screen	1280 x 800 (WGXA) touchscreen, LED backlight
Memory	2 GB DDR RAM, 2 MB cache
Storage	32 GB intern SDD, micro SD up to 32 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 and internal microphone
Battery	Lithium, 4420 mAh, 17 Wh
Housing	Aluminium, white colour, 214 x 128 x 9.8 mm
Weight	788 gram
System	Windows 8.1, 32 bit
Supplied with	Keyboard-docking station

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	1/3"	1280x1024	3.6 x3.6	10 bits	24 bits	55 db	72 db	1.3	USB-2	PP.1300c
ProPad-3	3.2	1/2"	2048x1536	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	40.5 db	66.5 db	0.53	WiFi	PP5000-WIFI



VC.3032

CCD color camera - 580 lines with composite and S-video output

The Euromex analogue 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 with either biological or stereo microscopes. The cameras are equipped with very sensitive sensors for brightfield and dark field applications as well for phase contrast and with coaxial illumination

DIGITAL

Digitizing the images of this analogue camera can be done using the VC.5491 frame grabber. Connected to PC using USB-2 this device allows storage of images and videos

REALTIME

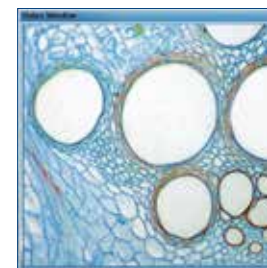
The real time images generated with this camera provide extremely well true- to-live colors without any delay. Most camera settings are done automatically and makes the cameras ideal for real time inspection, education and demonstrations. Connection is done using BNC(composite), SCART or S-video for connection to HDMI 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"	297,984	580	auto/manual	auto/manual	Composite/S-Video	C-mount



Mini USB-2 Video Grabber for CCD color camera

This mini VC.5491 USB-2 video grabber converts composite or a S-video signal from any analogue camera into digital images and sends them to a computer via a USB-2 connection



Video Window

MODEL

Pictures	Saving in BMP, JPG, TIFF format
Image resolution	640 x 480 pixels (fixed image)
Video movies	Saving in AVI, MPEG-2, MPEG-4, VCD, SVCD, WMV format
Video resolution	730 x 480, 640 x 480, 640 x 240, 320 x 240 pixels
Video system	PAL, SECAM, NTSC
Settings	Brightness, contrast, hue and saturation
Video input	Composite and S-video (Y/C)
Audio input	Cinch connection - stereo left/right
Power supply	5 Vdc, max 330 mA via USB-port 2
Minimum requirements	PC Pentium 4, 1 GHz, 128 MB RAM internal memory, a free USB-2 port, soundcard
Operation system	Windows 2000 SP3, Windows XP SP 1 (or higher), Windows Vista, Windows 7 and 8
Product number	VC.5491

ADAPTERS

FOR ALL
MICROSCOPE
CAMERAS



AE.5130

NZ.9833



Adapter Guide Microscope and camera

This comprehensive guide will help you select the right adapters for your camera and microscope. Most cameras are plug and play with most microscopes, if not the applicable adapter is indicated.

Simply order the adapter with your camera and the system is ready to use. Do you want to connect our cameras to another brand microscope? Euromex offers high quality adapters for most brands on the market, please contact us for models

MODELS		DC.1300c	DC.1300s / DC.3000s / DC.3000c / DC.5000c / DC.10000p / DC.3000p / DC.5000p / DC.18000p / DC.5000-WIFI / VC.3030	DC.5000i	VC.3032 / VC.3031	VC.3036	DSLR camera (need brand specific T2 adapter)	
B and B+ series	Monocular*	Plug & Play	Plug & Play	DC.1323	DC.1324	DC.1326	AE.5130 + T2	
B and B+ series	Binocular*	Plug & Play	Plug & Play	DC.1323	DC.1324	DC.1326	AE.5130 + T2	
B and B+ series	Trinocular	Plug & Play	Plug & Play	DC.1323	DC.1324	DC.1326	AE.5130 + T2	
BE-50 series		Plug & Play**	Plug & Play**	DC.1335 + DC.1323	DC.1335 + DC.1324	DC.1335 + DC.1326	AE.5130 + DC.1335 + T2	
DZ series	Binocular*	Plug & Play**	Plug & Play**	DC.1330 + DC.1323	DC.1330 + DC.1324	DC.1330 + DC.1326	AE.5130 + DC.1330 + T2	
DZ series	Trinocular	Plug & Play	Plug & Play	DC.1323	DC.9011 or DC.1324	DC.9011 or DC.1324	AE.5130 + T2	
iScope	Binocular*	Plug & Play	Plug & Play	DC.1323	DC.1324	DC.1326	AE.5130 + T2	
iScope	Trinocular	Plug & Play	Plug & Play	DC.1323	DC.1324	DC.1326	AE.5130 + T2	

* Camera substitutes one eyepiece

** Using the supplied 30/30.5 mm conversion adapters (DC.1330/DC.1335)

ACCESSORIES AND SPARE PARTS

- DC.1320** C-mount adapter with 1x objective for standard Ø 23.2 mm tubes
- DC.1323** C-mount adapter with 0.67x objective for standard 23.2 mm tubus and 2/3" camera
- DC.1324** C-mount adapter with 0.45x objective for standard Ø 23.2 mm tubes and 1/2" camera
- DC.1326** C-mount adapter with 0.35x objective for standard Ø 23.2 mm tubes and 1/3" camera
- DC.1330** 30 mm to 23.2 mm conversion adapters for stereo microscopes
- DC.1335** 30.5 mm to 23.2 mm conversion adapters for stereo microscopes
- OX.9810** CS/C mount with 1.0x objective
- OX.9833** C-mount adapter with 0.33x objective for Oxion microscopes and 1/3" cameras
- OX.9850** C-mount adapter with 0.5x objective for Oxion and Oxion Inverso microscopes and 1/2" cameras
- NZ.9833** C-mount adapter with 0.33x objective for NexiusZoom microscopes and 1/3" cameras
- NZ.9850** C-mount adapter with 0.5x objective for NexiusZoom microscopes and 1/2" cameras
- SB.9833** C-mount adapter with 0.33x objective for StereoBlue microscopes and 1/3" cameras
- SB.9850** C-mount adapter with 0.5x objective for StereoBlue microscopes and 1/2" cameras
- OX.5120** Standard 23.2 mm diameter tube for Oxion photo port
- AE.5130** Universal SLR camera adapter for 23.2 mm tubus with built-in 2x magnification lens. Needs T2 adapter
- AE.5025** T2 adapter for Nikon D digital SLR cameras
- AE.5040** T2 adapter for Canon EOS digital SLR cameras
- AE.5059** C-mount adapter with 0.45x objective for Z series microscopes.
To be placed over the Ø 23.2 mm tube
- AE.5063** C-mount adapter with 0.7x objective for Z series microscopes and 2/3" sensor cameras.
To be placed over the Ø 23.2 mm tube

MODELS

		DC.1300c	DC.1300s / DC.3000s / DC.3000c / DC.5000c / DC.10000p / DC.3000p / DC.5000p / DC.18000p / DC.5000-WIFI / VC.3030	DC.5000i	VC.3032 / VC.3031	VC.3036	DSLR camera (need brand specific T2 adapter)	other available items
iScope IOS	Binocular*	Plug & Play**	Plug & Play**	DC.1330 + DC.1323	DC.1330 + DC.1324	DC.1330 + DC.1326	AE.5130 + DC.1330 + T2	
iScope IOS	Trinocular	Plug & Play	Plug & Play	DC.1323	DC.1324	DC.1326	AE.5130 + T2	
NexiusZoom (ESD)	Binocular*	Plug & Play**	Plug & Play**	DC.1330 + DC.1323	DC.1330 + DC.1324	DC.1330 + DC.1326	AE.5130 + DC.1330 + T2	
NexiusZoom (ESD)	Trinocular	Plug & Play	Plug & Play	NZ.9850 or DC.1323	NZ.9850 or DC.1324	NZ.9833 or DC.1326	AE.5130 + T2	
Oxion	Binocular*	Plug & Play**	Plug & Play**	DC.1330 + DC.1323	DC.1330 + DC.1324	DC.1330 + DC.1326	AE.5130 + DC.1330 + T2	
Oxion	Trinocular	OX.9833	OX.9850	AE.5132 + DC.1323	OX.9850	OX.9833	AE.5120 + AE.5130 + T2	OX.9810
Oxion Inverso	Trinocular	OX.9833	OX.9850	AE.5132 + DC.1323	OX.9850	OX.9833	AE.5120 + AE.5130 + T2	OX.9810
P series	Binocular	Plug & Play**	Plug & Play**	DC.1335 + DC.1323	DC.1335 + DC.1324	DC.1335 + DC.1326	AE.5130 + DC.1335 + T2	
StereoBlue	Binocular*	Plug & Play**	Plug & Play**	DC.1330 + DC.1323	DC.1330 + DC.1324	DC.1330 + DC.1326	AE.5130 + DC.1330 + T2	
StereoBlue	Trinocular	Plug & Play	Plug & Play	DC.1323 or SB.9850	DC.1324 or SB.9850	DC.1326 or SB.9833	AE.5130 + T2	
Z series	Binocular*	Plug & Play**	Plug & Play**	DC.1335 + DC.1323	DC.1335 + DC.1324	DC.1335 + DC.1326	AE.5130 + DC.1335 + T2	
Z series	Trinocular	Plug & Play	Plug & Play	DC.1323	DC.1324	DC.1326	AE.5130 + T2	AE.5059 AE.5063

Accessories

for microscopy



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Accessories

for microscopy

Euromex offers a one-stop 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 microscopy 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 like the single LE.5213, dual LE.5214, triple LE.5215 or the LE.5239 or LE.5240 ring light fiber conductors

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



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

Power	150 W halogen	30 W PowerLED (equivalent to 120 W halogen)
Color temperature	3,000 K	6,500 K
Operating voltage	100-240 V AC / 12 V DC (50/60 Hz)	00-240 V AC / 12 V DC (50/60 Hz)
Dimensions	(h) 150 x (w) 150 x (d) 230 mm	(h) 150 x (w) 150 x (d) 230 mm
Weight	2.8 kg	3.9 kg
Model	LE.5211	LE.5211-LED

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 like 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 Material Sciences, various industrial applications and for stereo microscopy



Power	100 W halogen
Color temperature	3,000 K
Operating voltage	100-240 V AC / 12 V DC (50/60 Hz)
Dimensions	(h) 115 x (w) 320 x (d) 215 mm
Weight	3.8 kg
Model	LE.5210

Compact single 20 W light source

Compact cold light source with single 40 cm, 6 mm diameter fibre light conductor.

Equipped with a 20 W halogen lamp. Light intensity is factory preset and can not be adjusted



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

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



Power	22x 1 W LED = 2x 20 W halogen equivalent
Color temperature	6,500 K
Operating voltage	100-240 V AC / 12 V DC (50/60 Hz)
Dimensions	(h) 70 x (w) 120 x (d) 170 mm
Weight	1.6 kg
Model	LE.5208

Fluorescence 40 Hz ring light source for Z serie zoom objective

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



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

Economical 56 LEDs ring light source

Entry-level 8,000 lux LED ring light source



Ring illumination	56 LEDs with adjustable intensity
Color temperature	6,500 K
Illuminance	12,000 Lux at 100 mm distance
Working distance:	from 55 and 120 mm
Mounting	for stereo head with diameter 25 to 60 mm
Power supply	100-240 V AC /12 V DC (50/60 Hz)
External diameter	100 mm
Model	LE.1970

Professional high PowerLED 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

144 LEDs ring light source with segment illumination

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



Ring illumination	144 LEDs with adjustable intensity and 4 segment illumination
Color temperature	6,500 K
Illuminance	230,000 Lux at 100 mm distance
Working distance:	from 55 to 200 mm
Mounting	for stereo head with diameter from 25 to 61 mm
Power supply	100-240 V AC /12 V DC (50/60 Hz)
External diameter	100 mm
Model	LE.1973

Compact 60 LEDs ring light source

Compact 20,000 lux LED ring light source



Ring illumination	60 LEDs with adjustable intensity and 4 segment illumination
Color temperature	6,500 K
Illuminance	20,000 Lux at 100 mm distance
Working distance:	from 50 to 180 mm
Mounting	for stereo head with diameter from 25 to 61 mm
Power supply	100-240 V AC /12 V DC (50/60 Hz)
External diameter	100 mm
Model	LE.1972

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

ACCESSORIES AND SPARE PARTS

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

FIBER LIGHT CONDUCTOR

- 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, working distance from 40 to 80 mm
- LE.1984-100** Fresnel lens, working distance from 80 to 150 mm
- LE.1984-200** Fresnel lens, working distance from 150 to 240 mm

- LE.1984** Diffusing filter, for working distance from 40 to 300 mm
- LE.1985** Glass protection window
- LE.1887** 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, working distance from 40 to 80mm
- LE.1994-100** Fresnel lens, working distance from 80 to 150 mm
- LE.1994-200** Fresnel lens, working distance from 150 to 240 mm

- LE.1994** Diffusing filter, for working distance from 40 to 300 mm
- LE.1995** Glass protection window
- LE.1897** Polarizing filter
- LE.1898** 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 preparing samples. Before using a microscope good samples are necessary 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



DISSECTION KIT

4-PC Dissection kit PB.5110 in imitation leather case

Kit with dissecting needle straight (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

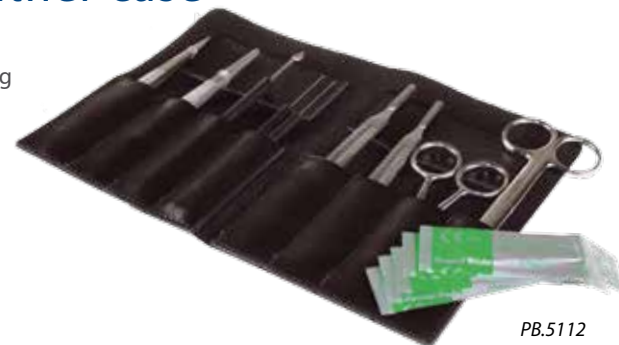
Kit with dissecting needle straight (PB.5050), dissecting needle lancet-shaped (PB.5054), dissecting forceps (PB.5067), dissecting scissors (PB.5084), scalpel handle no. 4 (PB.5094) and blades (PB.5096). Supplied with plastic case



PB.5111

10-PC Dissection kit PB.5112 in imitation leather case

Kit with two dissecting needles straight (PB.5050), dissecting needle lancet-shaped (PB.5054), dressing forceps (PB.5062), dissecting forceps (PB.5067), scissors (PB.5080), dissecting scissors (PB.5084), 2 scalpels (PB.5094), 5 scalpel blades with straight tip and 5 blades with blunt tip (PB.5095/PB.5096).
Supplied with imitation leather case



PB.5112

9-PC Dissection kit PB.5114 in wooden cabinet

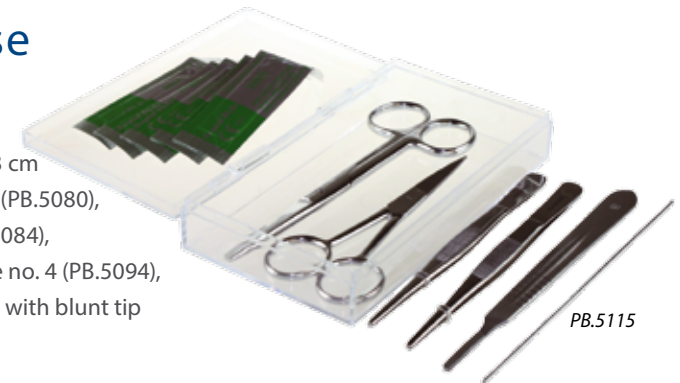
Kit with two dissecting needles straight (PB.5050), dissecting needle lancet-shaped (PB.5054), dressing forceps (PB.5062), dissecting forceps (PB.5067), scissors (PB.5080), dissecting scissors (PB.5084), 2 scalpels (PB.5094), 5 scalpel blades with straight tip and 5 blades with blunt tip (PB.5095/PB.5096).
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), 5 scalpel blades with straight tip and 5 blades with blunt tip (PB.5095/PB.5096)



PB.5115

Professional slide preparation kit PB.5125 in plastic deluxe case

Kit with 3 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 box



PB.5125

MICROSCOPE PREPARED SLIDES

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



25 Slides set of human histology, zoology and botany PB. 5211 for education

Set with 25 microscopy slides for education: human histological samples of men and mammals, zoology and botany. All microscope slides 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 human histology, zoology and botany PB. 5212 for education

Set with 25 microscopy slides for education: human histological samples of men and mammals, zoology and botany. All microscope slides 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 megalcephala, 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

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

25 Slides set of human histology, zoology and botany PB. 5213 for education

Set with 25 microscopy slides for education: human histological samples of men and mammals, zoology and botany. All microscope slides 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

25 Slides set of human histology, zoology and botany PB. 5214 for education

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

HISTOLOGY OF HUMAN AND MAMMALS

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

ZOOLOGY

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

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, ze 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

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, ze 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 human histology, zoology and botany PB. 5215 for education

Set with 25 microscopy slides for education: human histological samples of men and mammals, zoology and botany. All microscope slides 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 megalcephala, 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

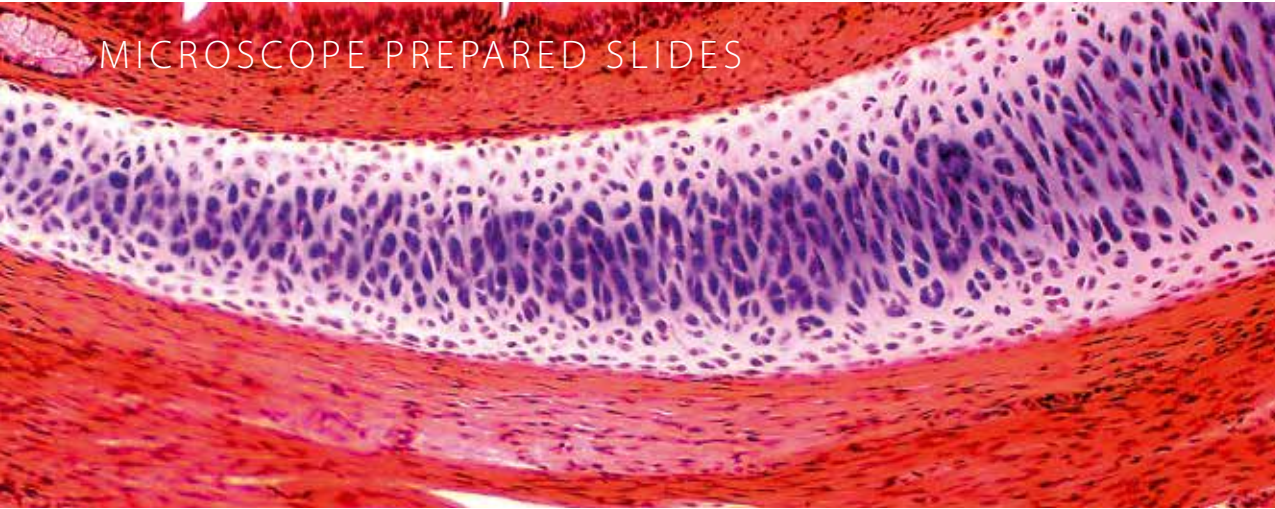
BOTANY

- 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

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

MICROSCOPE PREPARED SLIDES



23 Slides of human and mammal histology PB. 5221 set for education

Set with 23 microscopy slides for education: human histological samples of men and mammals.
All microscope slides 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 rabbit with developed eggs
- 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 human and mammal histology PB. 5222 set for education

Set with 23 microscopy slides for education: human histological samples of men and mammals.
All microscope slides 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

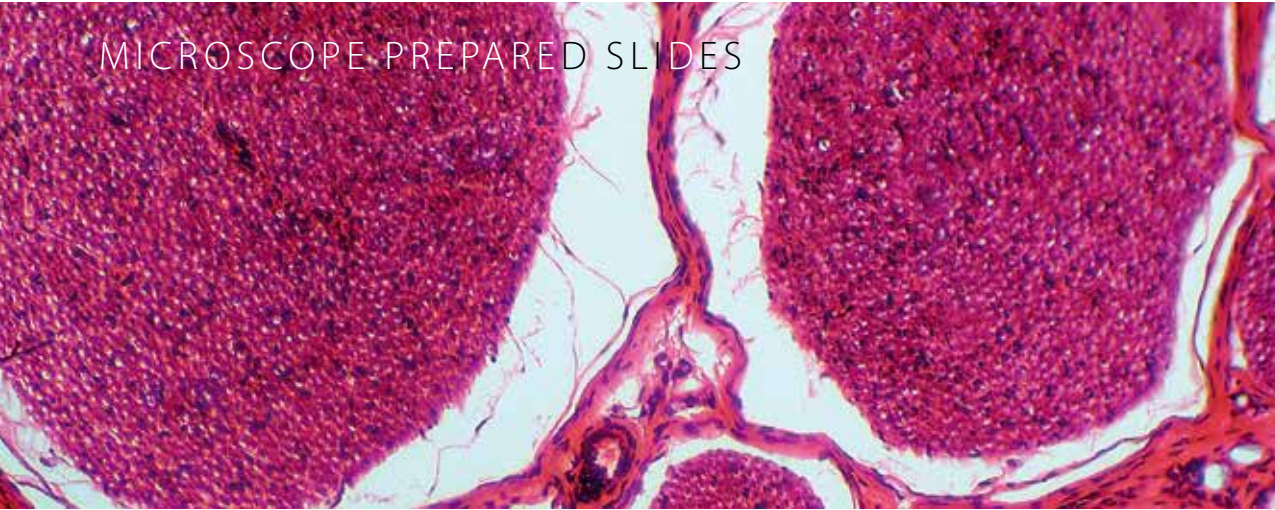
URINARY AND GENITAL SYSTEM

- 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 AN SENSORY ORGANS

- SH.1415** Motor nerve cells with end plates, rabbit, w.m.
- SH.1420** Cerebellum section, dog
- SH.1480** Eyeball section, rabbit, sagittal section

MICROSCOPE PREPARED SLIDES



10 Prepared slides of zoology and botany slides

PB. 5204 set for hobby

Set with 10 prepared microscopy slides for hobby: zoology and botany.

All microscope slides 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, shepherds' purse, ovary w. embryo in cotyledon stadium, l.s.
- SB.2374** Aspergillus, brown mold, w.m.
- SB.2384** Volvox sp., w.m.

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



25 Prepared slides of zoology and botany slides

PB. 5218 set for hobby

Set with 25 prepared microscopy slides for hobby: zoology and botany.

All microscope slides 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 megaloccephala, 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 following slides are available separately



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 Histology

These histology 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 rabbit with developed eggs
- SH.1360** Sperm human, smear

NERVOUS SYSTEM AND SENSORY ORGANS

- SH.1410** Nerve rabbit, c.s. and l.s.
- SH.1415** Motor nerve cells with end plates, rabbit, w.m.
- SH.1420** Cerebellum section, dog
- SH.1450** Spinal cord, rabbit, c.s.
- SH.1470** Taste buds, rabbit, l.s.
- SH.1490** Retina rabbit, section

USED ABBREVIATIONS

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

Individual EuroSlides for Zoology

This serie 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.

Individual EuroSlides for Botany

This serie of botanic microscopy slides consists of samples of sections of roots, stems, leaves, flowers, fruits and seeds, ferns and mosses, fungi, algae and bacteria

ROOTS

- SB.2006** Allium cepa, onion, scale epidermis, w.m.
- SB.2009** Allium cepa, onion, mitosis root tip, l.s.
- SB.2015** Ranunculus, buttercup, root, c.s.

- SB.2020** Helianthus, sunflower, old root, c.s.
- SB.2025** Monocot/dicot plant roots, zea mays/helantius, c.s.
- SB.2040** Solanum tuberosum, potato, starch grains

STEMS

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

LEAVES

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

FLOWERS, FRUITS AND SEEDS

- SB.2205** Monocot/dicot flower, zea mays/ranunculus, c.s.
- SB.2210** Lilium, lily, anther with mature pollen, c.s.
- SB.2212** Lilium, lily, overy, c.s.
- SB.2214** Lilium, lily, pollen, different stages of meiosis
- SB.2220** Capsella, shepherds' purse, ovary w. embryo in pre-cotyledon stadium, l.s.
- SB.2222** Capsella, sheperd's purse, ovary w. embryo in cotyledon statium, l.s.
- SB.2225** Zea mays, corn seed with embryo, l.s.
- SB.2232** Pinus, pine tree, female (cone) globose fruit, l.s.
- SB.2240** Triticum aestivum, wheat, kernel, l.s.

FERNS AND MOSSES

- SB.2315** Cyrtomium, holly fern, prothallium with young sporophyt, w.m.
- SB.2337** Mnium, antheridial branch, l.s.
- SB.2339** Mnium, archegonial branch, l.s.

FUNGI

- SB.2360** Saccaromyces sp., yeast, budding, w.m.
- SB.2365** Penicillium sp., w.m.
- SB.2373** Coprinus, ink caps mushroom, section of pileus
- SB.2374** Aspergillus, brown mold, w.m.

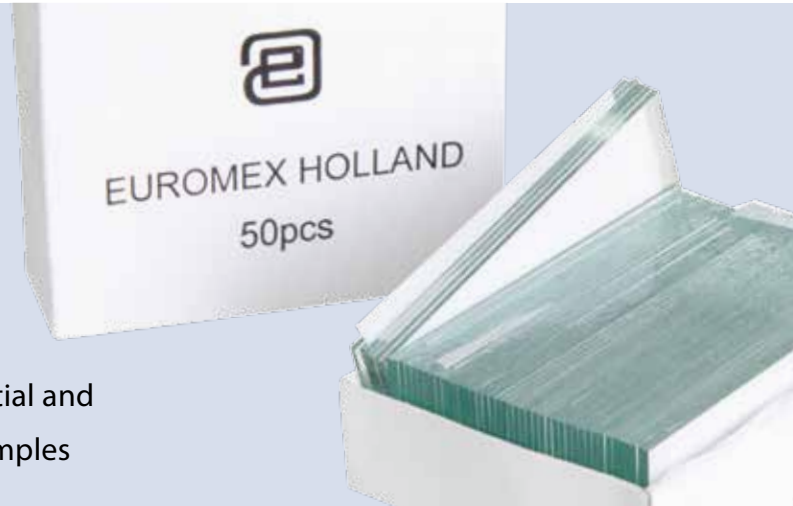
ALGAE

- SB.2377** Diatoms, w.m.
- SB.2380** Spirogyra sp. in conjugation
- SB.2384** Volvox sp., w.m.

BACTERIA

- SB.2420** 3 types of bacteria, cocci, bacilli, spirelli

DISPOSABLES



Microscope slides are essential and are the platform for your samples

MICROSCOPE SLIDES AND COVER GLASSES

- PB.5150** Microscope slides 76 x 26 mm, half white glass, cut edges. 50 pieces per pack
- PB.5155** Microscope slides 76 x 26 mm white glass, grinded edges. 50 pieces per pack
- PB.5160** Microscope slides 76 x 26 mm with concavity, grinded edges. 10 pieces per pack
- PB.5165** Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm. 100 pieces per packs
- PB.5168** Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm. 100 pieces per pack
- PB.5170** Cover glasses Ø18 mm, thickness 0.13-0.17 mm. 100 pieces per pack

MICROSCOPE SLIDE BOXES

- PB.5180** Wooden slide box for 25 slides. White interior with index
- PB.5185** Wooden slide box for 100 slides. White interior with index
- PB.5181** Black plastic slide box for 25 slides



PB.5150



PB.5180



PB.5168 / PB.5170

STAINS

Staining samples/cells enables 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 per pack
- PB.5250** Solid paraffin. Melting point 60°C, 200 gram packed
- PB.5255** Immersion oil, refractive index nD = 1.482. In bottle (25 ml)
- PB.5256** 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

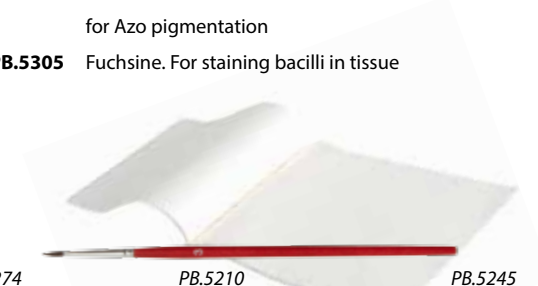


PB.5280 / PB.5274

(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 colouring
- 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 colour for Azo pigmentation
- PB.5305** Fuchsin. For staining bacilli in tissue



PB.5210

PB.5245

OtherOptical instruments



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

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

- **MAGNIFIERS & MEASURING MICROSCOPES** PAGE 304
- **REFRACTOMETERS** PAGE 308
- **POLARIMETERS** PAGE 316
- **SPECTROSCOPES** PAGE 318
- **PATHOLOGY SCANNER** PAGE 320

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 PB.5022
- PB.5021** Magnifier with handle 10x, aplanatic lens Ø 25 mm and handle Ø 8 mm. Fits 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.5026

PB.5022



PB.5021

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.5034** Achromatic magnifier 10x, triplet. Lens Ø 18 mm. Field of view 15 mm
- PB.5036** Aplanatic magnifier 10x, doublet. Lens Ø 20 mm. Field of view 20 mm
- PB.5037** Achromatic diamond magnifier 10x with 4 lenses Ø 21 mm. Field of view 25 mm



PB.5032



PB.5016



FOLDING MAGNIFIERS WHITE LED ILLUMINATION

- PB.5034-LED** Achromatic magnifier 10x triplet. Lens Ø 21 mm. White LED illumination
- PB.5018-LED** Achromatic magnifier 15x triplet. Lens Ø 21mm. White LED illumination
- PB.5033-LED** Achromatic magnifier 20x, triplet. Lens Ø 21 mm. White LED illumination
- PB.5035-LED** Achromatic magnifier 30x triplet. Lens Ø 21 mm. White LED illumination



PB.5034-LED

FOLDING MAGNIFIERS WHITE LED AND UV ILLUMINATION

- PB.5034-LUV** Achromatic magnifier 10x triplet. Lens Ø 21 mm. White LED and UV illumination
- PB.5018-LUV** Achromatic magnifier 15x triplet. Lens Ø 21mm. White LED and UV illumination
- PB.5033-LUV** Achromatic magnifier 20x, triplet. Lens Ø 21 mm. White LED and UV illumination
- PB.5035-LUV** Achromatic magnifier 30x triplet. Lens Ø 21 mm. White LED and UV illumination



PB.5034-LUV

MAGNIFIERS & MEASURING MICROSCOPES

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



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 w18 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 3.8 mm
- PB.5012** Measuring microscope 60x with LED illumination. Field of view 1.45 mm
- PB.5014** Measuring microscope 100x with LED illumination. Field of view 0.7 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

Only a few drops of the liquid are necessary to read the refractive index straight from the built-in scale. All refractometers are equipped with an ATC (except RF.5190) and are supplied with specific scales

MODELS

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

Model	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 refractometer 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 correlate the position of the light beam on the array of photo diodes to refractive index or to another unit of measure 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

MODELS

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	•	•

MODELS

Concentrations of sugar, nD indices (only for sugar)

Model	Scales	Accuracy	ATC	Digital
RD.5635	0-35 Brix	0.1 Brix	•	•
RD.5645	0-45 Brix	0.1 Brix	•	•
RD.5645	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 is 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 like 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

MODEL

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)

Gemmological refractometer

Gemstones

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



RF.5381

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

MODEL

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



Alcohol and alcohol-sugar solutions Handheld refractometer

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



MODEL

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 Handheld refractometer

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



MODEL

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

Battery acid and Coolant Handheld refractometer

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



MODEL

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	0.01RI 5 °C 5 °C	Battery acid Ethylene glycol Propylene glycol	•	•

Clinical applications Handheld refractometer

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



MODELS

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	0.2 g/dl	Proteins in Serum	•	•	RD.5712	0-12 g/dl	0.2 g/dl	Proteins in Serum	•	•
	1-1.05 sg	0.002 sg	Urine specific gravity	•	•		1-1.05 sg	0.001 sg	Urine specific gravity	•	•
	1.333-1.360 RI	0.0005 RI		•	•		1.33-1.39 RL	0.0001 RL		•	•

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

- 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 angle of rotation caused by passing polarized light 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 visualise the light spectrum of the light source of transparent substances



POLARIMETERS

99.400

Polarimeter

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° readings. Supplied with observation tubes of 100 mm and 200 mm. Bright light measuring field permits reading with accuracy of 0.1° with aid of Vernier

Range $0-180^\circ$ to left and right . Accuracy 0.1° . Polarizing device: Glam 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

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 spectrometers are used for optical experiments in natural sciences, industry and education



Handheld spectrometer SP.5100

Handheld spectrometer with fixed slit

- Direct vision type
- Adjustable eyelens
- Fixed slit
- Angle dispersion C - F 6°
- Linear dispersion 40 mm



SP.5100

MODEL

Model	Dimensions	Weight (gram)	Adjustable slit	Comparison prism	Angle dispersion	Linear dispersion	Wavelength scale	589 nm indication	With 5 glass cuvettes
SP.5100	90 x 18 mm Ø	72			C-F 6°	40 mm			

Handheld spectrometer SP.5150

Handheld spectrometer with adjustable slit from 0 to 1 mm

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



SP.5150

MODEL

Model	Dimensions	Weight (gram)	Adjustable slit	Comparison prism	Angle dispersion	Linear dispersion	Wavelength scale	589 nm indication	With 5 glass cuvettes
SP.5150	90 x 18 mm Ø	92	0-1 mm		C-F 7°	60 mm			

Euromex handheld spectrometer SP.5155

Handheld spectrometer with adjustable slit and comparison prism, mirror and 5 glass cuvettes

- Direct vision type
- Adjustable eyelens
- Adjustable slit 0 - 1 mm
- Angle dispersion C - F 7°
- Linear dispersion 60 mm
- Comparison prism for comparison between products
- Mirror
- 5 Glass cuvettes



SP.5155

MODEL

Model	Dimensions	Weight (gram)	Adjustable slit	Comparison prism	Angle dispersion	Linear dispersion	Wavelength scale	589 nm indication	With 5 glass cuvettes
SP.5155	h45x l105xp23	125	0-1 mm	•	C-F 7°	60 mm			•

Euromex handheld spectrometer SP.5200

Handheld spectrometer with adjustable slit, comparison prism, mirror, 5 glass mini-cuvettes and wavelength scale 400 - 700 nm with 589 nm indication. Divisions 10 nm

- Direct vision type
- Adjustable eyelens
- 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

Model	Dimensions	Weight (gram)	Adjustable slit	Comparison prism	Angle dispersion	Linear dispersion	Wavelength scale	589 nm indication	With 5 glass cuvettes
SP.5200	h50x l115xp23	250	0-1 mm	•	C-F 7°	60 mm	•	•	•

PATHOLOGY SCANNER



PS.1001

PathoScanner 10,000 DPI slide scanner

In pathology, histology and other medical fields, medical professionals look at tissue slides under a microscope. Often the tissue are stained to highlight certain structures enabling the specialists to perform their analysis. Euromex now introduces 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 in 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	
Dimensions	Weight
(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 2 slides included
- Polarization attachment available



PS.1001

SPECIFICATION

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

MODEL

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

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	B+ series (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	B+ series (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, B and B+ series
• Mycology	Study of fungi as branch of biology. Identification and classification	EcoBlue, BioBlue, BioBlue.Lab, B and B+ series, 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, B and B+ series, 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, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Anatomopathology	Diagnosis of diseases of organs or tissues. Cytopathology and forensic pathology	BioBlue.Lab, B and B+ series, 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, B and B+ series, iScope, Oxion

UNIVERSITY LABS FIELD OF APPLICATION
RECOMMENDED MODELS

• Biochemistry	Study of chemical processes within living organism. Identification and classification of enzymes and structure of biomolecules	BioBlue.Lab, B and B+ series, 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, B and B+ series, 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, B and B+ series, 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), B+ series (material), NexiusZoom, DZ series
• Cosmetics	Research, development and testing (safety) of substances for make-up or perfume	iScope (material), Oxion (material), B+ series (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), B+ series (material), StereoBlue, NexiusZoom, DZ series, Z series
• Embryology	Study of gametes, embryos and fetuses	BioBlue.Lab, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Entomology	Study of insects as branch of zoology. Identification and classification of beetles, flies, termites, moths and butterflies, bees, ants, wasps	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Environmental	Monitoring of environmental conditions like water, atmosphere, ecosystems, soil and pollution control	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Fluorescence	Study of living and non living material with the help of fluorescence markers (fluorochromes)	iScope (fluorescence), Oxion (fluorescence), Oxion Inverso (fluorescence), B+ series (fluorescence), DZ series
• Food and beverages	Quality and safety controls, before, during and after the production of food and beverages	BioBlue.Lab, B and B+ series, iScope, Oxion
• Forensics	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
• Genetics	Study of genes, heredity in living organism including bacteria, plants, animals and humans	iScope, Oxion, DZ series

UNIVERSITY LABS FIELD OF APPLICATION

RECOMMENDED MODELS

• Geology, mineralogy	Earth Science; Study of solids, rocks and processes. Identification and classification of rocks and minerals	iScope (material), Oxion (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
• Geology, petrology	Identification by means of petrographic microscope	iScope (polarization), StereoBlue, NexiusZoom, DZ series
• Glass industry	Quality control, before, during and after the production of glass and coatings	iScope (material), Oxion (material), Oxion Inverso (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
• Hematology	Study and diagnosis, treatment and prevention of diseases of the blood	iScope, B and B+ series (dark field), iScope (dark field), Oxion, Oxion (dark field)
• Histopathology	Microscopic examination of tissue , diagnosis of diseases	iScope, Oxion
• Horticulture	Selective breeding of plants and fruit for production of food	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• In vitro fertilization	In vitro fertilization IFV. Quality control of collected egg and sperm	StereoBlue, NexiusZoom, DZ series, Z series
• Histopathology	Microscopic examination of tissue , diagnosis of diseases	iScope, Oxion
• Marine Biology	Study of organisms living in the ocean or sea's as branch of biology	B and B+ series, BioBlue.Lab, iScope, Oxion
• Mechanics	Manufacturing and quality inspection of mechanical parts	iScope (material), Oxion (material), Oxion Inverso (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
• Metallurgy	Manufacturing and quality inspection of metallic elements, intermetallic compounds and alloys	iScope (material), Oxion (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
• Microbiology	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
• Mining	Extraction of minerals for identification, quantitative and qualitative evaluation of minerals	iScope (material and polarization), Oxion (material and polarization), Oxion Inverso (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
• Mycology	Study of fungi as branch of biology. Identification and classification	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Neuropathology	Study and diagnosis of diseases in nervous system tissue	iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Oncology	Study and diagnosis, treatment and prevention of cancers	iScope, Oxion
• Ornithology	Study of birds as branch of zoology. Diagnosis of diseases in birds like competition pigeons	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Paleontology	Study of fossils in order to determinate organisms evolution	iScope (material), Oxion (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
• Paper industry	Production of paper related products. Quality inspection	iScope (material), Oxion (material), B+ series (material), StereoBlue, NexiusZoom, DZ series

UNIVERSITY LABS FIELD OF APPLICATION

UNIVERSITY LABS	FIELD OF APPLICATION	RECOMMENDED MODELS
• Parasitology	Study of parasites, medical and veterinary	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Pathology	Study and diagnosis of diseases	iScope, Oxion
• Petrochemical	Research and transformation of crude oil and natural gas	iScope (material), Oxion (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
• Petrology	Study of the composition and structure of rocks as branch of geology. Identification by means of polarization microscopes	iScope (polarization), StereoBlue, NexiusZoom, DZ series
• Pharmaceuticals	Development and production of drugs for medication. Quality assurance and inspection of produced products	iScope (polarization), StereoBlue, NexiusZoom, DZ series
• Phytopathology	Study and diagnosis of plant diseases	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Plastics	Development and production of plastics and plastic based compounds. Quality assurance and inspection	iScope (material), Oxion (material), Oxion Inverso (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
• Textile	Development and production of all kind of textile based products. Quality assurance and inspection	iScope (material), Oxion (material), B+ series (material), AP series, StereoBlue, NexiusZoom, DZ series
• Veterinary medicine	Prevention, diagnosis and treatment of diseases, injuries in animals	BioBlue.Lab, B and B+ series, iScope, Oxion, Oxion Inverso, StereoBlue, NexiusZoom, DZ series
• Virology	Study and diagnosis of viruses and virus-like agents	BioBlue.Lab, B and B+ series, iScope, Oxion
• Water treatment	Production of drinking water and wastewater treatment. Quality control and disease prevention	BioBlue.Lab, B and B+ series, iScope, Oxion
• Wood production	Wood production for construction material, fuel. Quality control	iScope (material), Oxion (material), Oxion Inverso (material), B+ series (material), AP series, StereoBlue, NexiusZoom, DZ series
• Embryo collection	Embryo collection and transfer in mares, pigs, cows. Quality control	NexiusZoom, DZ series, Z series
• Zoology	Animal biology. Study of invertebrated and vertebrated animals and related branches	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series

LIFE SCIENCE LABORATORIES FIELD OF APPLICATION

LIFE SCIENCE LABORATORIES	FIELD OF APPLICATION	RECOMMENDED MODELS
• Agronomy & forestry	Selective breeding of plants, fruit and production of food from plants, wood from trees, fuel. Plant physiology and genetics research	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Anatomopathology	Diagnosis of diseases of organs or tissues. Cytopathology and forensic pathology	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Bacteriology	Study of bacteria as subdivision of microbiology. Identification, classification	BioBlue.Lab, B and B+ series, iScope, Oxion, Oxion Inverso

**LIFE SCIENCE
LABORATORIES**

FIELD OF APPLICATION

RECOMMENDED MODELS

• Biochemistry	Study of chemical processes within living organism. Identification and classification of enzymes and structure of biomolecules	BioBlue.Lab, B and B+ series, 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, B and B+ series, iScope, Oxion, NexiusZoom, DZ series
• Botany	Study of plants as branch of biology. Plant anatomy and morphology. Plant genetics and ecology. Plant biochemistry	BioBlue.Lab, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Cell Culture	Controlled growth of cells and tissues, fungal culture and microbiological culture	Oxion Inverso, NexiusZoom, DZ series
• Chemistry	Study of the composition and properties of chemicals	iScope (material and polarization), Oxion (material), B+ series (material), NexiusZoom, DZ series
• Cosmetics	Research, development and testing (safety) of substances for make-up or perfume	B+ series (material), iScope (material), NexiusZoom, Oxion (material), 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 captured the images and videos	CMEX cameras, CCD cameras, HD cameras, Cooled cameras, ProPad
• Embryology	Study of gametes, embryos and fetuses	BioBlue.Lab, B and B+ series, iScope, Oxion, NexiusZoom, DZ series, Z series
• Entomology	Study of insects as branch of zoology. Identification and classification of beetles, flies, termites, moths and butterflies, bees, ants, wasps	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Environmental	Monitoring of environmental conditions like water, atmosphere, ecosystems, soil and pollution control	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Fluorescence	Study of living and non living material with the help of fluorescence markers (fluorochromes)	iScope (fluorescence), Oxion (fluorescence), Oxion Inverso (fluorescence), B+ series (fluorescence), DZ series
• Food and beverages	Quality and safety controls, before, during and after the production of food and beverages	BioBlue.Lab, B and B+ series, iScope, Oxion
• Forensics	Analysis of scientific evidence. Toxicology, fingerprints, Forensic anthropology and archeology, forensic botany and entomology	BioBlue.Lab, B and B+ series, B+ series (material), iScope, iScope (material and polarization), Oxion, Oxion (material), Oxion Inverted, Oxion Inverted (material), NexiusZoom, DZ series, Z series
• Genetics	Study of genes, heredity in living organism including bacteria, plants, animals and humans	iScope, Oxion, DZ series
• Hematology	Study and diagnosis, treatment and prevention of diseases of the blood	iScope, B+ series (dark field), iScope (dark field), Oxion, Oxion (dark field), iScope, Oxion

**LIFE SCIENCE
LABORATORIES**

FIELD OF APPLICATION

RECOMMENDED MODELS

• Histopathology	Microscopic examination of tissue , diagnosis of diseases	iScope, Oxion
• Horticulture	Selective breeding of plants and fruit for production of food	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• In vitro fertilization	In vitro fertilization IVF. Quality control of collected egg and sperm	StereoBlue, NexiusZoom, DZ series, Z series
• Histopathology	Microscopic examination of tissue , diagnosis of diseases	iScope, Oxion
• Marine Biology	Study of organisms living in the ocean or sea's as branch of biology	iScope, Oxion, NexiusZoom, DZ series
• Microbiology	Study of microscopic uni-, multi- or acellular small organisms such as protozoa, algae, bacteria and more. Identification and classification	iScope, Oxion, NexiusZoom, DZ series
• Mycology	Study of fungi as branch of biology. Identification and classification	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Neuropathology	Study and diagnosis of diseases in nervous system tissue	iScope, Oxion, NexiusZoom, DZ series
• Oncology	Study and diagnosis, treatment and prevention of cancers	iScope, Oxion
• Parasitology	Study of parasites, medical and veterinary	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Pathology	Study and diagnosis of diseases	iScope, Oxion
Pharmaceutics	Development and production of drugs for medication. Quality assurance and inspection of produced products	iScope (polarization), StereoBlue, NexiusZoom, DZ series
• Phytopathology	Study and diagnosis of plant diseases	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Veterinary medicine	Prevention, diagnosis and treatment of diseases, injuries on animals	BioBlue.Lab, B and B+ series, iScope, Oxion, Oxion Inverso, StereoBlue, NexiusZoom, DZ series
• Virology	Study and diagnosis of viruses and virus-like agents	BioBlue.Lab, B and B+ series, iScope, Oxion
• Water treatment	Production of drinking water and wastewater treatment. Quality control and disease prevention	BioBlue.Lab, B and B+ series, iScope, Oxion
• Embryo collection	Embryo collection and transfer in mares, pigs, cows. Quality control	NexiusZoom, DZ series, Z series
• Zoology	Animal biology. Study of invertebrated and vertebrated animals and related branches	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series

INDUSTRY	FIELD OF APPLICATION	RECOMMENDED MODELS
• Aerospace	Manufacturing and quality inspection of rockets and space vehicles related parts	iScope (material), Oxion (material), NexiusZoom, DZ series, Z series
• Agronomy & forestry	Selective breeding of plants, fruit and production of food from plants, wood from trees, fuel. Plant physiology and genetics research	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, 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
• Automotive	Manufacturing and quality inspection of automotive related parts	iScope (material), Oxion Inverso (material), NexiusZoom, DZ series, Z series
• Avionics	Manufacturing and quality inspection of aircrafts related parts	iScope (material), NexiusZoom, DZ series
• Biochemistry	Study of chemical processes within living organism. Identification and classification of enzymes and structure of biomolecules	BioBlue.Lab, iScope, Oxion, NexiusZoom, DZ series
• Chemistry	Study of the composition and properties of chemicals	iScope (material), Oxion (material)
• Cosmetics	Research, development and testing (safety) of substances for make-up or perfume	B+ series (material), iScope (material), Oxion (material), NexiusZoom, DZ series
• Digital imaging	Observation and perform analysis on microscope images, save and captured the images and videos	CMEX cameras, CCD cameras, HD cameras, ProPad
• Electronics	Development, production, assembling and inspection of electronic components or circuitry	iScope (material), Oxion (material), NexiusZoom, DZ series, Z series, BE-50 LED
• Environmental	Monitoring of environmental conditions like water, atmosphere, ecosystems, soil and pollution control	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Food and beverages	Quality and safety controls, before, during and after the production of food and beverages	BioBlue.Lab, B and B+ series, iScope, Oxion
• Forensics	Analysis of scientific evidence. Toxicology, fingerprints, Forensic anthropology and archeology, forensic botany and entomology	BioBlue.Lab, B and B+ series, B+ series (material), iScope, iScope (material and polarization), Oxion, Oxion (material), Oxion Inverted, Oxion Inverted (material), NexiusZoom, DZ series, Z series
• Geology, mineralogy	Earth science that study the solid, rocks and processes. Identification and classification of rocks and minerals	iScope (material), Oxion (material), Oxion Inverso (material), B+ (material), StereoBlue, NexiusZoom, DZ series
• Geology, petrology	Identification by means of an petrographic microscope	iScope (polarization)
• Glass industry	Quality control, before, during and after the production of glass and coatings	iScope (material), Oxion (material), Oxion Inverso (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
• Horticulture	Selective breeding of plants and fruit for production of food	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Jewelry	Precise manufacturing of very small decorative items such as brooches, rings, bracelets and more	BE-50 LED series, StereoBlue, NexiusZoom, DZ series, Z series
• Mechanics	Manufacturing and quality inspection of mechanical parts	iScope (material), Oxion (material), Oxion Inverso (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
• Metallurgy	Manufacturing and quality inspection of metallic elements, intermetallic compounds and alloys	iScope (material), Oxion (material), Oxion Inverso (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
• Mining	Extraction of minerals such. Identification, quantitative and qualitative evaluation of minerals	iScope (material and polarization), Oxion (material and polarization), Oxion Inverso (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
• Paper industry	Production of paper related products. Quality inspection	iScope (material), Oxion (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
• Petrochemical	Research and transformation of crude oil and natural gas	iScope (material), Oxion (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
• Petrology	Study of the composition and structure of rocks as branch of geology. Identification by means of polarization microscopes	iScope (polarization), StereoBlue, NexiusZoom, DZ series
• Pharmaceuticals	Development and production of drugs for medication. Quality assurance and inspection of produced products	iScope (polarization), StereoBlue, NexiusZoom, DZ series

INDUSTRY	FIELD OF APPLICATION	RECOMMENDED MODELS
• Plastics	Development and production of plastics and plastic based compounds. Quality assurance and inspection	iScope (material), Oxion (material), Oxion Inverso (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
• Printing industry	Production of relief printing, lithography	iScope (material), Oxion (material), B+ series (material), AP series, StereoBlue, NexiusZoom, DZ series
• Textile	Development and production of all kind of textile based products. Quality assurance and inspection	iScope (material), Oxion (material), Oxion Inverso (material), B+ (material), AP series, StereoBlue, NexiusZoom, DZ series
• Water treatment	Production of drinking water and wastewater treatment . Quality control and disease prevention	BioBlue.Lab, B and B+ series, iScope, Oxion,
• Wood production	Wood production for construction material, fuel. Quality control	iScope (material), Oxion (material), Oxion Inverso (material), B+ (material), AP series, StereoBlue, NexiusZoom, DZ series


























MORE INFORMATION?

If you need further information or have any questions please feel free to contact our area sales managers or offices.

Contact details can be found at the back of this catalogue

ICONS EXPLANATION

In this catalog icons are used to indicate the several functions of a microscope. Please find below more detail about the meaning of each icon

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|-----------------------------|---|---|--------------------------------------|-------------------------------|---|--|--------------------------------|
| • Monocular |  |  | • Phase contrast illumination | • Infinity corrected |  |  | • Rechargeable battery |
| • Binocular |  |  | • Abbe condenser | • LED illumination |  |  | • Internal power supply |
| • Trinocular |  |  | • Zoom stereo objective | • NeoLED™ illumination |  |  | • Mains adapter |
| • Rotating head 360° |  |  | • Digital product | • Halogen illumination |  |  | • 2 years warranty |
| • Incident light |  |  | • WiFi connection | • HG-HBO illumination |  |  | • 5 years warranty |
| • Transmitted light |  |  | • USB connection | • Köhler illumination |  |  | • 10 years warranty |
| • Polarized light |  |  | • ESD safe coating | | | | |

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**MICROSCOPE
COLLECTION**
2016

HEADQUARTERS

Euromex Microscopen bv

Papenkamp 20
6836 BD Arnhem
The Netherlands
Tel: +31 (0) 26 323 22 11
info@euromex.com

SALES EXPORT OFFICE

Euromex Microscopen Spain sl

Carretera de Barcelona 88, Entresuelo
Edificio Technomar
08302 Mataró, Spain
Tel: +34 (0) 937 415 609
info@euromex.com

www.euromex.com