CATALOG
2018

MICROSCOPES

FOR INDUSTRY

PART 3

euromex
microscopes holland

Contents

Euromex Catalog

2018

About
Euromex

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

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

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

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

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

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

Choose the right
microscope

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

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

Stereo**Microscopes**
Industry

Stereo**Microscopes**
Industry

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

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

NexiusZoom

The new standard in stereo microscopy

The NexiusZoom 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

STEREO MICROSCOPES

NexiusZoom

FEATURED

NexiusZoom, -EVO and -ESD

The NexiusZoom, -EVO and NexiusZoom ESD stereo microscopes are supplied with a large choice of objectives and stands, with or without illumination. Ideal for all kinds of industrial applications. Magnifications from 3.3 up to 220 times can be achieved with auxiliary lenses and eyepieces. ESD safe microscopes for the electronics industry complete this series

● *NZ.1903-U 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 or HWF 10x/23 mm eyepieces
- Zoom 1:6.7 ratio, 6.7x to 45x or 1:8.4, 6.5x to 55x
- Ergonomically designed stands
- 3 W LED illuminations
- Configurations up to 220x magnification
- ESD safe models available
- 10 years warranty

● *NZ.1903-PL*

SPECIFICATIONS

EYEPIECES

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

HEAD

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

OBJECTIVE

The standard NexiusZoom is supplied with a 1:6.7 zoom objective with 0.67x to 4.5x magnifications, a field of view from 33 mm to 4.9 mm. Working distance 110 mm
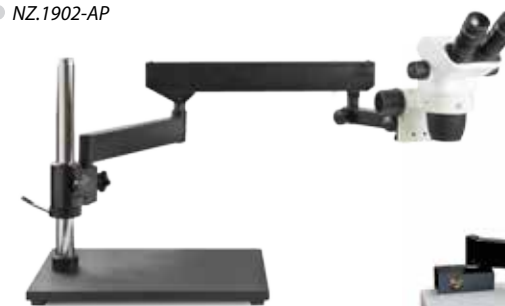
The NexiusZoom EVO is supplied with a 1:8.4 zoom objective with 0.65x to 5.5x magnifications, a field of view from 35.4 mm to 4.2 mm. Working distance 110 mm

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

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

● *NZ.1902-AP*

● *NZ.1902-A*

POLARIZATION

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

STAND

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

All pillar and rack & pinion stands are supplied with two object clamps. Alloy metal cast, hardened coating.
More illumination options see chapter 10 (Accessories)

STAGE

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

● *NZ.9505*

ILLUMINATION

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

ESD SAFE MICROSCOPES

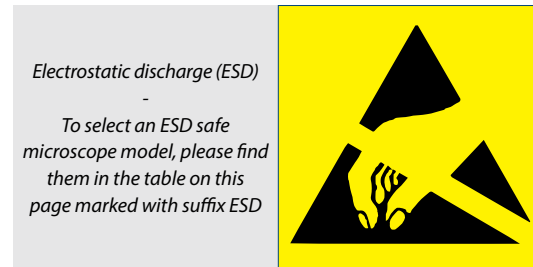For inspection and assembly applications. Electrostatic discharge (ESD) is the unwanted sudden flow of electricity between two electrically charged objects. ESD can cause a range of harmful effects as well as permanent damage to solid state electronics components

Euromex therefore 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

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

PACKAGE CONTENT

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

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

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

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

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

[1] *Boom stand model with tabletop clamp*
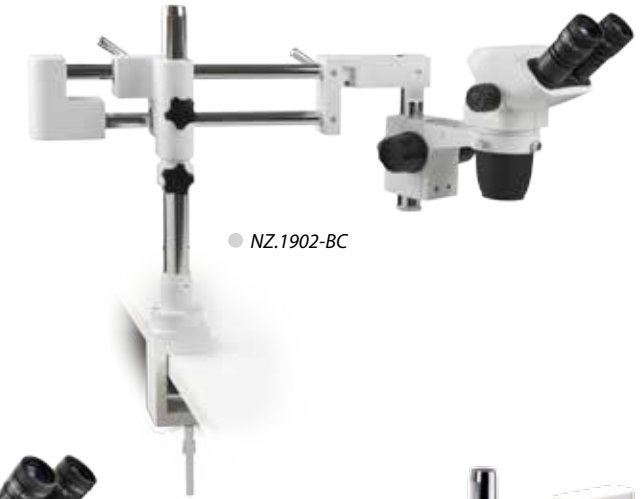[2] *Articulated stand model with heavy desktop base plate*

MAGNIFICATIONS

NexiusZoom and NexiusZoom ESD: working distance and field of view with standard High Wide Field (HWF) 10x / 22 eyepieces

Zoom indication	Objective 1x (standard) WD 110 mm		Auxiliary lens 0.5x WD 165 mm		Auxiliary lens 0.75x WD 120 mm		Auxiliary lens 1.5x WD 53 mm		Auxiliary lens 2x WD 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	6.7	32.8	3.35	65.7	5.0	43.8	10.1	21.9	13.4	16.4
0.7	7.0	31.4	3.5	62.9	5.3	41.9	10.5	21.0	14.0	15.7
0.8	8.0	27.5	4.0	55.0	6.0	36.7	12.0	18.3	16.0	13.8
1.0	10.0	22.0	5.0	44.0	7.5	29.3	15.0	14.7	20.0	11.0
1.5	15.0	14.7	7.5	29.3	11.3	19.6	22.5	9.8	30.0	7.3
2.0	20.0	11.0	10.0	22.0	15.0	14.7	30.0	7.3	40.0	5.5
3.0	30.0	7.3	15.0	14.7	22.5	9.8	45.0	4.9	60.0	3.7
4.0	40.0	5.5	20.0	11.0	30.0	7.3	60.0	3.7	80.0	2.8
4.5	45.0	4.9	22.5	9.8	33.8	6.5	67.5	3.3	90.0	2.4

NexiusZoom EVO: working distance and field of view with standard High Wide Field (HWF) 10x / 23 eyepieces

Zoom indication	Objective 1x (standard) WD 110 mm		Auxiliary lens 0.5x WD 165 mm		Auxiliary lens 0.75x WD 120 mm		Auxiliary lens 1.5x WD 53 mm		Auxiliary lens 2x WD 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
0.65	6.5	35.4	3.25	70.8	4.9	47.2	9.8	23.6	13.0	17.7
0.7	7.0	32.9	3.5	65.7	5.3	43.4	10.5	21.9	14.0	16.4
0.8	8.0	28.8	4.0	57.5	6.0	38.3	12.0	19.2	16.0	14.4
1.0	10.0	23.0	5.0	46.0	7.5	30.7	15.0	15.3	20.0	11.5
1.5	15.0	15.3	7.5	30.7	11.3	20.4	22.5	10.2	30.0	7.7
2.0	20.0	11.5	10.0	23.0	15.0	15.3	30.0	7.7	40.0	5.8
3.0	30.0	7.7	15.0	15.3	22.5	10.2	45.0	5.1	60.0	3.8
4.0	40.0	5.8	20.0	11.5	30.0	7.7	60.0	3.8	80.0	2.9
4.5	45.0	5.1	22.5	10.2	33.8	6.8	67.5	3.4	90.0	2.6
5.5	55.0	4.2	27.5	8.4	41.3	5.6	82.5	2.8	110	2.1

NZ.1902-P

NZ.1902-S

NZ.1902-S ESD

NZ.1903-U ESD

NZ.1902-BC

NZ.1902-U

NZ.1903-B

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.8903 Auxiliary 0,3x lens for NexiusZoom. WD approx. 278 mm. Not suitable for -S, -P -M stand models

NZ.8905 Auxiliary lens 0.5x. WD approx. 165 mm. Not suitable for -S and -M stand models

NZ.8907 Auxiliary lens 0.75x. WD approx. 120 mm

NZ.8915 Auxiliary lens 1.5x. WD approx. 53 mm

NZ.8920 Auxiliary lens 2.0x. WD approx. 30 mm. Not suitable for the -S stand model

NZ.8950 Protection glass for NexiusZoom head

NZ.9010 Ergonomic rack & pinion stand with 3W transmitted and incident LED illuminators

NZ.9015 Ergonomic pillar stand with 3W transmitted and incident LED illuminators

NZ.9017 Ergonomically designed pillar stand with two 3W goose-neck type incident LED illuminations on each side and a 3W transmitted LED illumination

NZ.9020 Universal (single arm) stand without NexiusZoom head holder

NZ.9030 Boom (double arm) stand without NexiusZoom head holder

NZ.9032 Boom (double arm) stand with table clamp (without NexiusZoom head holder NZ.9090)

NZ.9042 Ergonomic pillar stand with rotating mirror and transmitted and incident 3W LED illumination

NZ.9090 NexiusZoom head holder (for NZ.9020, NZ. 9030 and NZ. 9032)

NZ.9095 NexiusZoom head holder with fine coarse (for NZ.9020, NZ. 9030 and NZ. 9032)

NZ.9095-ADD NexiusZoom head holder with fine coarse ADD-ON for NZ.9020, NZ. 9030 and NZ.9032 Only available with new microscopes

NZ.9025 Articulated arm stand with table clamp (without NexiusZoom head holder)

NZ.9027 Articulated arm stand with heavy stand (without NexiusZoom head holder)

NZ.9081 NexiusZoom head holder (for articulated arm stand NZ.9025 and NZ.9027)

NZ.9520 Polarization kit for NexiusZoom: 360° rotatable round stage with built-in polarization filter (NZ.9524) + analyzer in mount to be screwed under the head (NZ.9525). Not suitable with auxiliary lenses

NZ.9524 360° rotatable round stage with built-in polarization filter for NexiusZoom

NZ.9525 360° rotatable analyzer in mount to be screwed under the head of NexiusZoom. Not suitable for use in combination with auxiliary lenses

AE.5168-NZ Heating stage with PID controller up to 50ºC. Only with the purchase of a new microscope

NZ.9950 Standard opaque stage plate

NZ.9956 Black/white stage plate

NZ.9570 Pair of object clamps for stage

NZ.9572 Adjustable GEM object clamp for -P, -PL and -S stands

50.876 Darkfield attachment (for -S and -P stands)

NZ.9833 C-mount adapter with 0.33x lens for 1/3" cameras (suitable for trinocular models)

NZ.9850 C-mount adapter with 0.5x lens for 1/2" cameras (suitable for trinocular models)

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

AE.5025 T2 adapter for Nikon D digital SLR cameras

AE.5040 T2 adapter for Canon EOS digital SLR cameras

Other T2 adapters on request

AE.1112 Object micrometer 50 mm (divided in 500 parts on glass slide 76 x 26 mm)

NZ.5302 / NZ.5303 ●
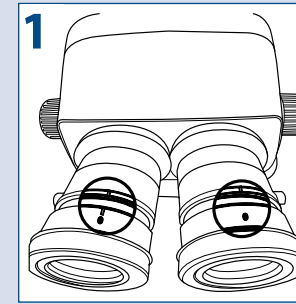
How to set up a
Stereo Microscope

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

1

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

2
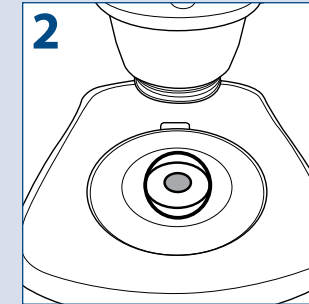
Put a specimen on the stage plate
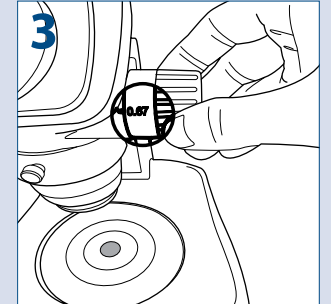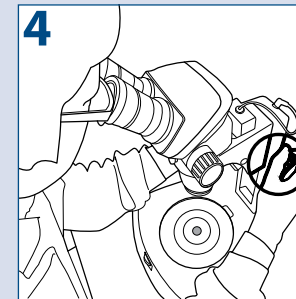
3

Turn the zoom adjustment knob to the lowest magnification

4

Rotate the focus adjustment knob to bring the specimen into focus

5
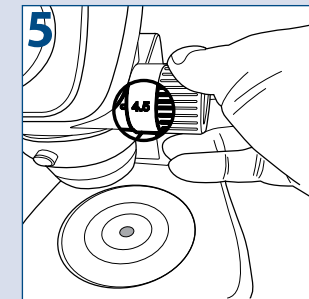
Turn the zoom adjustment knob to the highest magnification
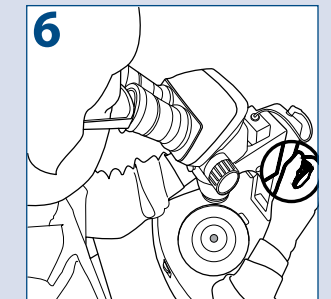
6

Rotate the focus adjustment knob to bring the specimen into focus

7

Turn the zoom adjustment knob to the lowest magnification

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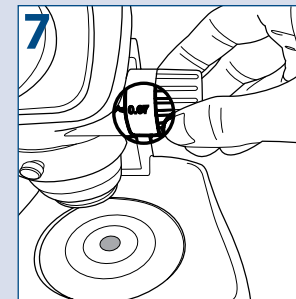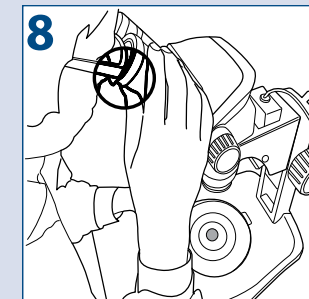
Rotate the diopter adjustment rings of the left and right eyepiece to bring the specimen into focus

PLEASE NOTE

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

If not, please repeat steps 3 to 8

NexiusZoom

FEATURED

NexiusZoom
for gemology

The specialized backwards tilting stand of the NexiusZoom and NexiusZoom EVO stereo microscopes for gemology applications offers 30W halogen transmitted illumination towards the specimen at oblique angles. This enables the examination of your gems in perfect darkfield conditions. The stand is also available with 1 W LED or a 7 W fluorescent incident illumination for brightfield contrast

● NZ.1902-GEML

NZ.1903-GEML	
Dimensions	Weight
(h) 510 x (w) 260 x (d) 310 mm	8.4 kg

NZ.1903-GEMF	
Dimensions	Weight
(h) 510 x (w) 260 x (d) 310 mm	8.4 kg

● NZ.1902 with backwards tilting stand

HIGHLIGHTS

- **Binocular and trinocular heads**
- **Standard HWF 10x eyepieces with 22 mm or 23 mm field of view**
- **Zoom objectives with 0.7 to 4.5x or 0.65 to 5.5x magnification**
- **Ergonomically designed backwards tilting stand**
- **30 Watt halogen transmitted illumination**
- **1W LED or 7W fluorescent incident illumination**
- **Configurations up to 220x magnification**

SPECIFICATIONS

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

HEAD
Binocular or trinocular heads with 45° inclined tubes. Both eyepieces with ± 5 diopter adjustments. Interpupillary distance adjustable between 54 mm and 75 mm

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

The NexiusZoom EVO is supplied with a 1:8.4 zoom objective with 0.65x to 5.5x magnifications, a field of view from 35.4 mm to 4.2 mm. WD approx. 110 mm
Auxiliary lenses 0.75x, 1.5x and 2.0x are available
All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

STAND
Ergonomically designed stand with backwards 0 to 45° tilting arm with 76 mm head holder for darkfield and brightfield. Built-in 100-240 V power supply

STAGE
Flat darkfield stage with clamp object holder, iris diaphragm and incident illumination

ILLUMINATION
30 Watt halogen transmitted illumination, 1W LED or 7W fluorescent incident illumination. With internal power supply 100-240 V operation. Both illuminators can be used simultaneously and the light intensities can be adjusted separately

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

MODELS

MODELS	Binocular	Tinocular	Objective 0.67-4.5	Objective 0.65-5.5	1 W LED incident illumination	7 W fluorescent incident illumination	30 W halogen transmitted illumination	Working distance (mm)
NZ.1902-GEML	•		•		•		•	110
NZ.1902-GEMF	•		•			•	•	110
NZ.1702-GEML	•			•	•		•	110
NZ.1702-GEMF	•			•		•	•	110
NZ.1903-GEML		•	•		•		•	110
NZ.1903-GEMF		•	•			•	•	110
NZ.1703-GEML		•		•	•		•	110
NZ.1703-GEMF		•		•		•	•	110

MAGNIFICATIONS

NexiusZoom WD and field of view with standard HWF 10x / 22 High Wide Field eyepieces

Zoom indication	Objective 1x (standard) WD 110 mm		Auxiliary lens 0.75x WD 120 mm		Auxiliary lens 1.5x WD 53 mm		Auxiliary lens 2x WD 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
0.67	6.7	32.8	5.0	43.8	10.1	21.9	13.4	16.4
0.7	7.0	31.4	5.3	41.9	10.5	21.0	14.0	15.7
0.8	8.0	27.5	6.0	36.7	12.0	18.3	16.0	13.8
1.0	10.0	22.0	7.5	29.3	15.0	14.7	20.0	11.0
1.5	15.0	14.7	11.3	19.6	22.5	9.8	30.0	7.3
2.0	20.0	11.0	15.0	14.7	30.0	7.3	40.0	5.5
3.0	30.0	7.3	22.5	9.8	45.0	4.9	60.0	3.7
4.0	40.0	5.5	30.0	7.3	60.0	3.7	80.0	2.8
4.5	45.0	4.9	33.8	6.5	67.5	3.3	90.0	2.4

NexiusZoom EVO WD and field of view with standard HWF 10x/23 High Wide Field eyepieces

Zoom indication	Objective 1x (standard) WD 110 mm		Auxiliary lens 0.75x WD 120 mm		Auxiliary lens 1.5x WD 53 mm		Auxiliary lens 2x WD 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
0.65	6.5	35.4	4.9	47.2	9.8	23.6	13.0	17.7
0.7	7.0	32.9	5.3	43.4	10.5	21.9	14.0	16.4
0.8	8.0	28.8	6.0	38.3	12.0	19.2	16.0	14.4
1.0	10.0	23.0	7.5	30.7	15.0	15.3	20.0	11.5
1.5	15.0	15.3	11.3	20.4	22.5	10.2	30.0	7.7
2.0	20.0	11.5	15.0	15.3	30.0	7.7	40.0	5.8
3.0	30.0	7.7	22.5	10.2	45.0	5.1	60.0	3.8
4.0	40.0	5.8	30.0	7.7	60.0	3.8	80.0	2..9
4.5	45.0	5.1	33.8	6.8	67.5	3.4	90.0	2.6
5.5	55.0	4.2	41.3	5.6	82.5	2.8	110	2.1

NZ.5302 NexiusZoom binocular head with eyepieces
NZ.5303 NexiusZoom trinocular head with eyepieces
NZ.5312 NexiusZoom EVO binocular head with eyepieces
NZ.5313 NexiusZoom EVO trinocular head with eyepieces

NZ.6010 Pair of HWF 10x / 22 mm eyepieces
NZ.6210 Pair of HWF 10x / 23 mm eyepieces.
Only suitable for NexiusZoom EVO
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.8907 Auxiliary lens 0.75x. WD 120 mm
NZ.8915 Auxiliary lens 1.5x. WD 53 mm
NZ.8920 Auxiliary lens 2.0x. WD 30 mm
Not suitable for NZ.1902-S and NZ.1903-S
NZ.8950 Protection glass for NexiusZoom head
Not suitable with auxiliary lenses

NZ.9525 360° rotatable analyzer in mount to be screwed under head of NexiusZoom
NZ.9572-G Adjustable GEM object clamp for NexiusZoom with tilting stand for gemology

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.5025 T2 adapter for Nikon D digital SLR cameras
AE.5040 T2 adapter for Canon EOS digital SLR cameras
Other T2 adapters on request

AE.1112 Object micrometer 50 mm (divided in 500 parts on glass slide 76 x 26 mm)

- The clamp holder allows precise positioning of objects
- The variable iris diaphragm is used for maximizing contrast
- Brightfield/darkfield switch for transmitted illumination for maximum flexibility

NZ.5302 / NZ.5303 ●

STEREO MICROSCOPES

Blue*Line*
MADE IN HOLLAND

StereoBlue

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

● SB.1903

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'

HIGHLIGHTS

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

SPECIFICATIONS

EYEPIECES
Pair of WF 10x/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 parafocal 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

Model with universal stand (SB.1902-U) ●

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

The ergonomically designed universal single arm stand is ideal for viewing large samples or working under the microscope. Standard supplied without illumination. The universal single arm stand can be equipped with the ring illuminators LE.1974 and LE.1973 with respectively 72 or 144 power LEDs controlled in segments, ideal for creating or lifting shades. More illumination options see chapter 10 (Accessories). The stands are alloy metal casted with hardened coating. More illumination options see chapter 10

ILLUMINATION

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

PACKAGE CONTENT

Models with illumination are supplied with power cord, dust cover, eyecups, a spare fuse, Ø 60 mm transparent,

black/white stage plates and user manual. All packed in a polystyrene box

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

● *SB.1302* ● *SB.1402-P* ● *SB.1902*

MODELS	Binocular	Trinocular	1x/3x objective	2x/4x objective	0.7 - 4.5x zoom	Rack & pinion stand	Pillar stand	Universal stand	30 LED right light	Weight (kg)
SB.1302	•		•			•				3.3
SB.1302-P	•		•				•			4.2
SB.1402	•			•		•				3.3
SB.1402-P	•			•			•			4.2
SB.1902	•				•	•				3.6
SB.1902-P	•				•		•			4.4
SB.1902-U	•				•			•		15.4
SB.1903		•			•	•				3.7
SB.1903-P		•			•		•			4.5
SB.1903-U		•			•			•		15.5
SB.3903		•		•	•				•	3.7
SB.3903-P		•			•		•		•	4..5

ACCESSORIES AND SPARE PARTS

SB.6010 Pair of HWF 10x/20 mm eyepieces

SB.6010-C WF 10X/20 mm eyepiece with cross-hair

SB.6010-M WF 10X/20 mm eyepiece with micrometer scale

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

SB.6015-C WF 15X/15 mm eyepiece with cross-hair

SB.6015-M WF 15X/15 mm eyepiece with micrometer scale

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

SB.6020-C WF 20/10 mm eyepiece with cross-hair

SB.6020-M WF 20/10 mm eyepiece with micrometer scale

SB.6099 Pair of eyecups

SB.8903 Auxiliary 0,3x lens. WD approx. 247 mm. Only suitable for one and two arm boom stands and articulated arm stand

SB.8905 Auxiliary 0.5x lens, WD approx. 170 mm. Advised only for zoom models with pillar or universal stands (with rack & pinion models the sample thickness is max. 2 cm)

SB.8907 Auxiliary 0.75x lens for zoom models. WD approx. 114 mm

DIMENSIONS

289
100
25
9.5
266

SB.8915 Auxiliary 1.5x lens for zoom models. WD approx. 48 mm (not suitable for models SB.3903/SB3903-P)

SB.8950 Protection glass window for StereoBlue Not suitable with auxiliary lenses

SB.9032 Universal single arm stand with table clamp without StereoBlue head holder (SB.9090)

SB.9090 NexiusZoom head holder

SB.9040 Darkfield attachment for StereoBlue

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

SB.9524 360° rotatable round stage with built-in polarization filter for StereoBlue

SB.9525 360° rotatable analyzer in mount to be screwed under head of StereoBlue

SB.9570 Pair of object clamps for stage

SB.9833 C-mount adapter with 0.33x lens for 1/3" cameras. Only for trinocular models

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

SB.9983 3W LED replacement unit for StereoBlue, incident illumination

SB.9983-R 3 W LED replacement unit for StereoBlue, transmitted illumination
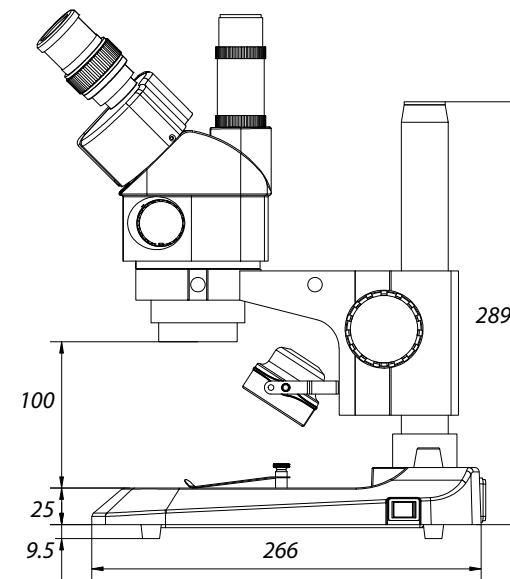
AE.5130 Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Needs T2 adapter

AE.5025 T2 adapter for Nikon D digital SLR cameras

AE.5040 T2 adapter for Canon EOS digital SLR cameras

Other T2 adapters on request

AE.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

STEREO MICROSCOPES

DZ series

DZ series

The modular stereo microscopes of the DZ series can be built around no less than three 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. Thanks to the modular design of this series, you can adapt the instrument to your individual needs. To build your own microscope just select a central zoom unit, a pair of eyepieces, one of the available objectives, stands and other accessories

● customized
configuration model
(DZ.0800, 2x DZ.3010,
DZ.2025, DZ.9005,
DZ.9010, DZ.4010
and DZ.504 0)

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

SPECIFICATIONS

EYEPIECES
Pair of EWF 10x/22 mm eyepieces

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

CENTRAL ZOOM UNIT
Three central zoom units are available:
- 1:6.3 for total magnifications from 8 to 50x
- 1:8 for total magnifications from 8 to 64x
- 1:10 for total magnifications from 8 to 80x

COMMON MAIN OBJECTIVE
Standard configurations are supplied with a plan apochromatic Common Main Objective (CMO) 1x, working distance 78 mm. Plan apochromatic Common Main Objectives 0.5x (WD 126 mm) and 2x (WD 33 mm) are also available

● Customized
fluorescence model

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

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

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

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

STANDARD CONFIGURATIONS

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

DZ SERIES STANDARD

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

All equipped with EWF 10x/22mm eyepieces

MAGNIFICATIONS AND FIELDS OF VIEW FOR STANDARD CONFIGURATIONS

MODELS	Zoom indication	0.5x Objective WD 126 mm		1.0x Objective WD 78 mm		2.0x Objective WD 33 mm	
		Total magnification	Field of view	Total magnification	Field of view	Total magnification	Field of view
	0.8x	4x	55	8x	27.5	16x	13.7
	1.0x	5x	44	10x	22	20x	11
	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

(Left side row labels: DZ1100 / DZ1105 — DZ1800 / DZ1805 — DZ1600 / DZ1605)

All equipped with EWF 10x/22mm eyepieces

● DZ.3010 / DZ.3020 / DZ.3015

DZ.9013 ●

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. A pair of eyepieces, an ergonomic 0 to 35° tilting head or fixed 20° inclined head, a 0.5x, 1x or 2x Common Main Objective (CMO), a large ergonomic LED stand, a universal or an articulated arm stand. Other accessories such as a photo/camera unit or dual iris diaphragm can complete the configuration

CENTRAL ZOOM UNITS

DZ.0630 Central Zoom Unit 1:6.3 unit with magnifications from 8 to 50 times

DZ.0800 Central Zoom Unit 1:8 unit with magnifications from 8 to 64 times

DZ.1000 Central Zoom Unit 1:10 unit with magnifications from 8 to 80 times

HEADS

DZ.2020 Ergonomic binocular 0-35° tilting head without eyepieces

DZ.2025 Binocular 20° tilted head without eyepieces Interpupillary distance from 55 to 75 mm.

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

DIAPHRAGM

DZ.9010 Double iris diaphragms for increased depth of field

OBJECTIVES

DZ.4003 Plan Common Main objective 0.3x. WD 276 mm

DZ.4005 Plan apochromatic Common Main objective 0.5x. WD 126 mm

DZ.4010 Plan apochromatic Common Main objective 1.0x. WD 78 mm

DZ.4020 Plan apochromatic Common Main objectives 2.0x. WD 33 mm

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

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. Coaxial coarse and fine adjustments, 100 graduations, 0.015 mm per graduations

65.980 Articulated arm stand for mounting on table without head holder (65.981)

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

NZ.9025 Articulated arm stand with table clamp (without DZ head holder 65.981)

NZ.9027 Articulated arm stand with heavy stand (without DZ head holder 65.981)

NZ.9042 Stand with rotating mirror and transmitted LED illumination

NZ.9030 Boom (double arm) stand with heavy stand (without head holder NZ.9090)

NZ.9032 Boom (double arm) stand with table clamp (without head holder NZ.9090)

NZ.9090 Head holder (for NZ.9020, NZ. 9030 and NZ.9032)

FLUORESCENCE ATTACHMENT

DZ.9050 Attachment for fluorescence with 100 W mercury vapor illumination with GFP-B and GFP-LP filter sets and one 23.2 mm photo port. Supplied with power supply

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

ACCESSORIES AND SPARE PARTS

DZ.9020 Large 185 x 145 mm stage with mechanical X-Y
50 x 50 mm stage, to be moved by hand

DZ.9040 Darkfield attachment for DZ.5040

DZ.9045 Polarizer, 360° rotatable, to be mounted on
Common Main objectives of DZ series

DZ.9047 Polarizer, 360° rotatable, to be placed on the stage

DZ.9005 Photo port attachment with one 23.2 mm tube

DZ.9007 Photo port attachment with two 23.2 mm tubes

DZ.9013 C-mount 1x objective for insertion into
photo port attachments

AE.1900 Glass object plate, ø 100mm

AE.1903 Acrylic white/black object plate

50.875 Adjustable GEM clamp

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

AE.5025 T2 adapter for Nikon D digital SLR cameras

AE.5040 T2 adapter for Canon EOS digital SLR cameras

Other T2 adapters on request

AE.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.0800 / DZ.2020 / DZ.3010 (2x) DZ.4005 / DZ.5040

Two concepts of
Stereo Microscopes

Most modern stereo microscopes are built according to two 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 20st 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
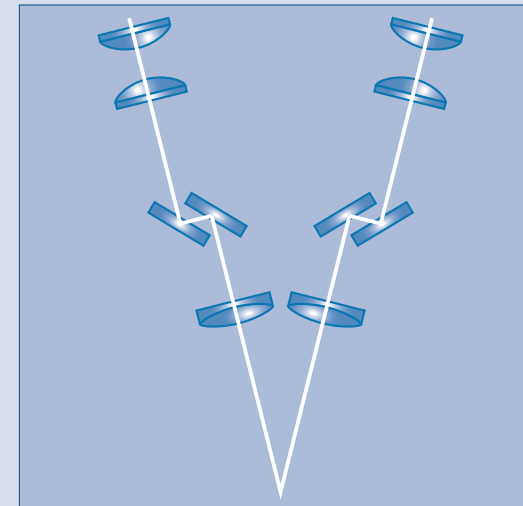
Two optical trains with their optical axis under a small angle, between 10° and 12°, generate two images of the object

- Low cost
- Compact
- Magnifications[1] up to approximately 100x
- Good quality
- Production environment

Common Main Objective (CMO)

principle

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

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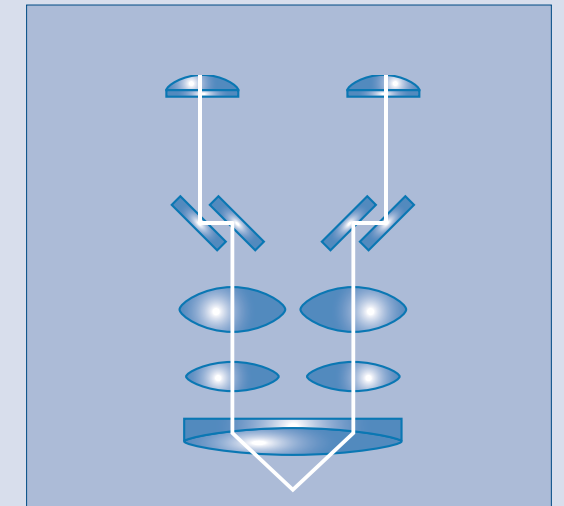- High imaging quality
- Research and development labs

[1] Objective without auxiliary lenses and with 10x eyepieces
[2] With 10x eyepieces
[3] The parallel system allows many accessories such as photo and epi-fluorescence attachments, iris diaphragms, beamsplitters to be added

Z series

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 industrial products.

Certain components are also integrated in machines.

Depending on the application, the microscopes can be configured with different zoom heads, together with other components such as eyepieces, additional lenses, stands, stages, filters, etc

ST.1720, ZE.1654 and LE.5210, LE.5239 ●

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 SWF 10x/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, AE.1950 ●
LE.5210 and LE.5218

SPECIFICATIONS

EYEPIECES
Pair of SWF 10x/23 mm eyepieces

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

ZOOM MAGNIFICATION OBJECTIVES
- Zoom objective with magnifications from 0.4x to 2.5x
- Zoom objective with magnifications from 0.7x to 4.5x
- Zoom objective with magnifications from 1x to 7x
Zoom objectives with click stops are also available on request

All optics have an anti-reflection coating for maximum light throughput and are anti-fungus treated
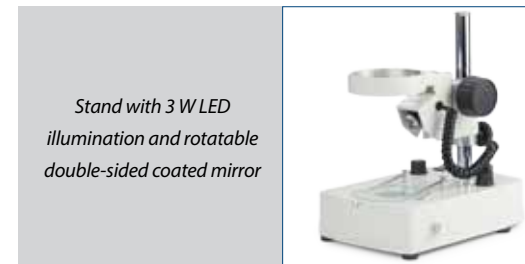
Stand with 3 W LED illumination and rotatable double-sided coated mirror

STANDS WITHOUT ILLUMINATION
ST.1710 Pillar stand with ST.1790 head holder.
Pillar height 210 mm, diameter ø 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 ø 20 mm
Dimensions(h) 290 x (w)150 x (d) 240

ST.1717 Pillar ergonomic flat stand with ST.1790 head holder. Pillar height 250 mm, diameter ø 20 mm
Dimensions(h) 290 x (w) 250 x (d) 350

ST.1770 Large pillar wooden stand with ST.1790 head holder. Pillar height 360 mm, diameter ø 29 mm
Suitable for SMD inspection.
Dimensions(h) 400 x (w) 580 x (d) 500

STANDS WITH ILLUMINATION
ST.1735 Rack & pinion stand with 3 W LED illumination and rotatable double-sided coated mirror (one frosted and one aluminum coated side). Especially developed for observation of transparent objects. Adjustable light intensity. Supplied with external power supply. Dimensions: 240 x 160 x 290 (D x W x H), min/max height 240-290

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 used simultaneously. With integrated power supply. Dimensions: 240 x 160 x 290 (D x W x H), min/max height 240-290 mm

BOOM STANDS

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

65.980 Articulated one arm stand to be mounted on table without 83 mm head holder. Depth positioning of stereo head between 33 and 100 cm. WD between 0 and maximum 295 mm

65.983 Head holder 85 mm diameter for 65.980

HEAD HOLDERS

Other optional head holders for boom stands

ST.1790 Head holder with coarse adjustment

ST.1796 Head holder with coarse and fine adjustment

ST.1792 Head holder with coarse adjustment and opening for one fiber light guide

ST.1794 Orientable head holder with coarse adjustment and opening for one fiber light guide

ST.1798 Orientable head holder with coarse and fine adjustment and opening for one fiber 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, ST1796. The head holders ST.1796 and ST.1798 are also equipped with a fine focusing adjustment

PACKAGE CONTENT

Models with illumination are supplied with power cord, dust cover, a spare fuse and user manual. All packed in a polystyrene box

ACCESSORIES AND SPARE PARTS

EYEPIECES (without eyecups)

AE.1835 Pair of SWF 5x/26 mm eyepieces

AE.1836 Pair of SWF 10x/23 mm eyepieces

AE.1834 Pair of SWF 12.5x/20 mm eyepieces

AE.1837 Pair of SWF 15x/16 mm eyepieces

AE.1838 Pair of SWF 20x/11.5 mm eyepieces

AE.1840 Pair of SWF 30x/7.5 mm eyepieces

AE.5439 Pair of eyecups

AE.5425 Pair of eyecups, suitable when wearing spectacles

MICROMETER EYEPIECES (with adjustable lens)

AE.1839 SWF 10x/21mm with 10 mm/100 micrometer reticle and cross hair

AE.1841 SWF 10x/21mm with 10 x 10 mm reticle, 400 squares

AE.1842 SWF 10x/21mm with photo corners marks

ST.1717 ●

ZOOM STEREO HEADS

MODELS	Binocular	Trinocular	Tilt tubes	Objective zoom	Magnification	WD (mm)	Field of view (mm)
ZE.1624	•		45°	0.7 - 4.5x	7 - 45x	93	32/5.1
ZE.1654		•	45°	0.7 - 4.5x	7 - 45x	93	32/5.1
ZE.1657		•[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	23/3.3
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	57/9.2

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

STANDS

MODELS	Column (mm)	Diameter (mm)	Rack & pinion	l 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.1770	360	29		500x580	400	ST.1790	
65.980/65.983			•	ø 1000 [1]	0/295	65.983	

[1] *Length with the twoarms totally extended. The stand ST.1760 is not suitable for head holder ZE.1659*

ACCESSORIES AND SPARE PARTS

MICROMETER SLIDE

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. WD 233 mm

AE.1822 Additional 0.57x lens. WD 300 mm

ADDITIONAL LENSES

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

AE.1855 Additional 0.3x lens. WD 250 mm. Suitable with ST.1720, ST.1770, ST.1780, ST.1785 and 65.980 stands

AE.1870 Additional 0.44x lens. WD 180 mm. Suitable with ST.1715, ST.1720, ST.1770, ST.1780, ST.1785 and 65.980 stands

AE.1856 Additional 0.5x lens. WD 150 mm. Suitable with ST.1740. Maximum object size is 15 mm

AE.1857 Additional 0.75x lens. WD 97 mm

AE.1858 Additional 1.5x lens. WD 50 mm

AE.1859 Additional 2.0x lens. WD 34 mm

ADDITIONAL LENSES

(for ZE.1629)

AE.1805 Additional 0.3x lens. WD 330 mm. Suitable with ST.1720, ST.1770, ST.1780, ST.1785 and 65.980 stands

AE.1806 Additional 0.5x lens. WD 198 mm. Suitable with ST.1715, ST.1720, ST.1770, ST.1780, ST.1785 and 65.980 stands

AE.1807 Additional 0.75x lens. WD 125 mm

AE.1808 Additional 1.5x lens. WD 62 mm

AE.1809 Additional 2.0x lens. WD 42 mm

ADDITIONAL LENSES

(for ZE.1657)

AE.1816 Additional 0.35x lens. WD 250 mm

AE.1817 Additional 0.5x lens. WD 174 mm

AE.1818 Additional 1.5x lens. WD 57 mm

PROTECTION WINDOWS

(to be screwed under the objectives)

AE.1845 Protection window for all heads of ZE series except ZE.1659

AE.1825 Protection window for ZE.1659. Not suitable with additional lenses

DARKFIELD

AE.1878 Darkfield attachment for ST.1740

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 Analyer, 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 darkfield ST.1760

AE.1885 Round object low-profile table with frosted glass filter. Interchangeable with darkfield ST.1740

OBJECT PLATES - Ø 94 MM

AE.1880 Acrylic translucide object plate

AE.1881 Glass transparent object plate

AE.1882 Arcylic 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 for 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.5130 Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Needs T2 adapter

AE.5025 T2 adapter for Nikon D digital SLR cameras

AE.5040 T2 adapter for Canon EOS digital SLR cameras

Other T2 adapters on request

● ZE.1629, ST.1710, LE.5210 and LE.5214

BE series

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 vary 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
- 5 years warranty

SPECIFICATIONS

BE.7405 / BE.7410 / BE.7420 ●

EYEPIECES
Pair of 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 of 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. WD 250 mm
BE.7410	1.0x objective for BE-50 LED. WD 230 mm
BE.7420	2.0x objective for BE-50 LED. WD 119 mm
AE.1112	Micrometer slide, 50 mm/50 divisions

MODELS	Binocular	0.5x objective	1.0x objective	2.0x objective	WD	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 in 10/30x or 20x/40x magnification versions. By using optional eyepieces magnifications from 5x to 80x can be achieved

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

The P series are compact and lightweight, ideal microscopes for industrial applications either in a workshop or for field work
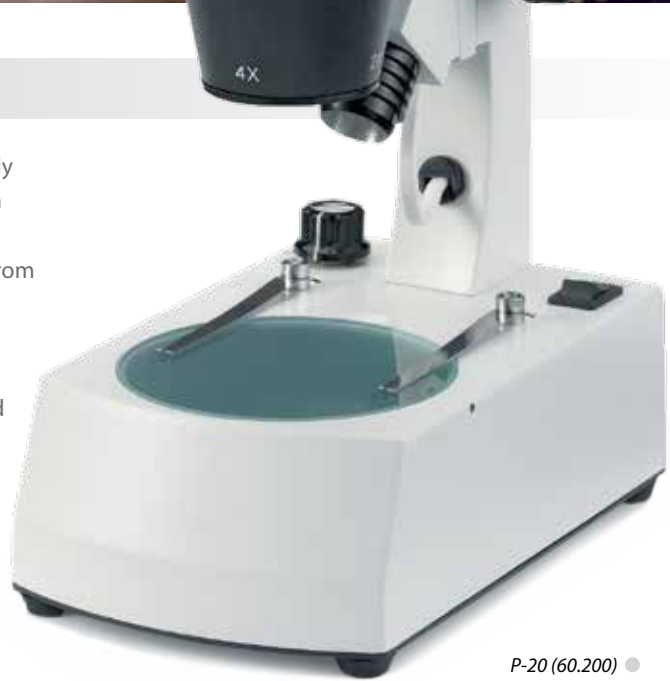
P-20 (60.200) ●

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
- Lightweight; easy to carry to any location
- 5 years warranty

P-10 (60.100) ●

SPECIFICATIONS

EYEPIECES
Pair of secured wide field eyepieces WF 10x/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 a field of view 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 a field of view from 10 to 5 mm
- Magnifications of 5 to 80x can be achieved by using 5x, 15x or 20x eyepieces

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 two object clamps

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

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

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

PACKAGE CONTENT

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

ACCESSORIES AND SPARE PARTS

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

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

50.961 Plastic case for P series

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

50.815 ●

50.820 ●

MODELS

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

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

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

1
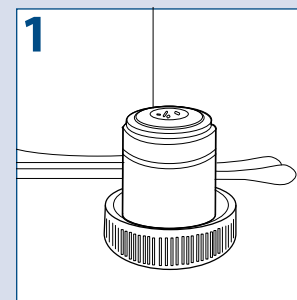
Place your objective or eyepiece on a secure location. One can use the objective's cap and eyepieces can be placed in the cut-outs within the storage box. Condensers and collector lenses can remain on the microscope

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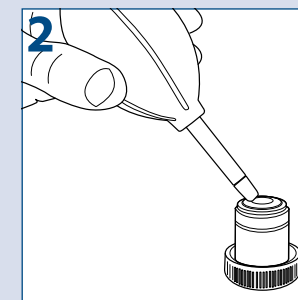
To prevent scratches on coatings and optical glass, try to remove dirt and dust that sticks to the optical surface first with an air-blower or pressurized dry air (oil-free and under moderate pressure version only)

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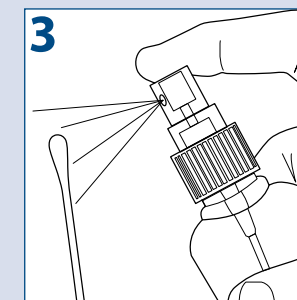
Use an absorbent lens paper or cotton swap. Damp a swap or towel with a small amount of lens cleaning fluid or cleaning mixture (Either pure iso-propanol or a mixture of 7 parts ether and 3 parts alcohol)

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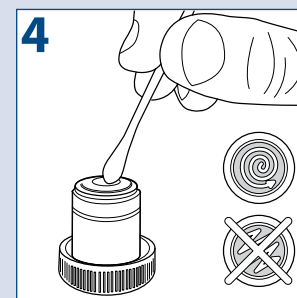
Clean the lens by using the tip of the cotton swap or the lens paper[1]. When cleaning a large lens surface, wipe with little pressure from the center towards the periphery in a circular motion, do not use zig-zag motion. Discard each lens paper or cotton swap after a single use

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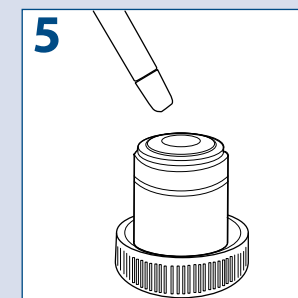
Wait until the cleaning fluid is evaporated, or speed up this process by using pressurized dry air

6

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

PB.5275

[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*

Materials**Science**

Industry

Materials Science
Industry

Microscopes for materials science applications have the specific objectives and other tools such as incident illuminations, polarization and compensation filters. This allows precise observation of materials such as 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

MATERIALS SCIENCE MICROSCOPES

iScope®

iScope®
for materials science

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

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

IS.1053-PLMi ●

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

IS.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 revolving nosepiece
- Infinity corrected IOS objectives for material observation, polarization and asbestos research
- 150 x 140 mm rackless stage equipped with metal and glass inserts
- Ø 160 mm rotatable round stage for polarization models
- Diascopic 3 W NeoLED™ Köhler illumination
- Epi-NeoLED™ illumination for metallurgical models
- 50 W Epi-illumination for polarization models
- iCare sensor for energy saving
- CSS - Cable Storage System
- 10 years warranty

IS.1053-PLPOLRi ●

SPECIFICATIONS

EYEPIECES
The metallurgical models are supplied with extended EWF 10x/20 mm (Ø 30 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 ergonomic positioning of both tubes in a high (431 mm) and in a low position (397 mm).
Optional photo C-mount adapters with built-in 0.33x or 0.5x objective fits the trinocular head with 23.2 mm tube

NOSEPIECE
Models for polarization are supplied with reversed revolving quadruple nosepiece. Other models have a reversed quintuple nosepiece on ball bearings

STAGE
- 150 x 140 mm rackless stage equipped with double slide holder and integrated 78 x 53 mm mechanical stage. Supplied with a plain metal and plain glass inserts
- 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
A ceramic stage is also available on request

STANDARD CONDENSER
Metallurgical models are equipped with height adjustable Abbe N.A. 1.25 condenser with iris diaphragm. Suitable for slider with darkfield 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 range is approximately 24 mm (20 mm for metallurgical versions) and is supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustment is equipped with friction control

DIASCOPIC 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 NeoLED™ are low energy consumption, no heating and a long operating lifetime.
The Köhler setting provides homogeneous illumination and high contrast

OBJECTIVES

Plan PLMi IOS (1)	5x/0,12	10/0.25	20x/0.40		50x/0.70	S100x/0.80 (6)
Plan PLPOLi IOS (2)	4x/0.12	10/0.25	20x/0.40	S40x/0.65	S60x/0.80 (6)	S100x/1.25 (6)
Plan PLPOLRi IOS (3)	5x/0.12	10/0.25	20x/0.40 (6)		50x/0.70	S100x/0.80 (6)
Plan PLi IOS (4)	4x/0.10	10/0.25	20x/0.40	S40x/0.65 (5)	S60x/0.85 (6)	S100x/1.25 (6)

[1] Plan PLMi Infinity corrected objectives for observation of materials. No cover glass correction
[2] Plan PLPOLi strain free Infinity corrected objectives for polarization applications. With 0.17 mm cover glass correction. For transmitted illumination
[3] Plan PLPOLRi strain free Infinity corrected objectives for polarization applications. No cover glass correction. For reflected illumination attachment

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, fixed analizer in slider, 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 whiter/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 back of the instrument, which enables easy storage. The integrated carrying grip at the back of the microscope ensures safe transportation of the microscope

PACKAGE CONTENT

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

[4] Plan PLi Infinity corrected objectives for asbestos research. No cover glass correction. With 0.17 mm cover glass correction
[5] The S40x objective for asbestos research is a plan phase PLPHi infinity corrected objective
[6] Optional objectives

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

ISCOPE® POLARIZATION MODELS

MODELS	Bino	Trino	EWF 10x/22 mm(4)	Plan PLPOLi 4x/10x/20x/S40x IOS objectives(1)	Plan PLPOLRi 5x/10x/20x/S50x IOS objectives(2)	Ø160 mm stage, 360° rotatable	Polarization condenser with gratuated 360° polarizer	iCare Sensor	Transmitted illumination Köhler LED	50W 12V halogen epi-illumination(3)
IS.1052-PLPOLi	•		•	•		•	•	•	•	
IS.1053-PLPOLi		•	•	•		•	•	•	•	
IS.1052-PLPOLRi	•		•		•	•	•	•		•
IS.1053-PLPOLRi		•	•		•	•	•	•		•

[1] Strain free objectives with 0.17 mm cover glass correction
[2] Strain free objectives without 0.17 mm cover glass correction
[3] The reflected 50 W illumination attachment of the IS.1052-PLPOLRi and IS.1053-POLRi models are equipped with a 360° rotatable polarization filter, analyzer, Bertrand lens, 1 λ first red plate, 1/4 λ retardation plate, a quartz wedge, slider with green and blue filter. External 240 or 115 Vac/ 12 Dc 4.16 A power supply
[4] The iScope® polarization models are supplied with a EWF 10x/22 mm eyepiece with a cross hair reticle and a EWF 10x/22 mm eyepiece with cross hair and 10/100 micrometer

ISCOPE® MATERIALS SCIENCE MODELS

MODELS	Binocular	Trinocular	EWF 10x/20 mm	Plan PLMi 5x/10x/20x/S50x IOS objectives (1)	Mechanical rackless stage	Abbe condenser	Köhler 3 W LED	Metallurgical attachment with NeoLED™ epi-illumination
IS.1052-PLMi	•		•	•	•	•	•	•
IS.1053-PLMi		•	•	•	•	•	•	•

[1] Objectives without cover glass correction

The reflected illumination attachment is supplied with a 0-90° polarizer mounted in a slider, a fixed analyzer in slider, a white, yellow and blue filter, all mounted in a slider. External 100-240 Vac/ 7.5 Dc power adapter

ISCOPE® ASBESTOS RESEARCH MODELS

MODELS	Binocular	Trinocular	HWF 12.5x/15 mm	HWF 12.5x/15 mm, with Walton-Bracket	Plan PLi 4/10x objectives (1)	Plan phase PLPHi S40x objectives	Phase contrast condenser	Mechanical rackless stage	iCare Sensor	Köhler LED
IS.1052-PLAi	•		•	•	•	•	•	•	•	•
IS.1053-PLAi		•	•	•	•	•	•	•	•	•

[1] Objectives with cover glass correction

Note: the iScope® asbestos research model is equipped with a 87/230 x 140 mm rackless stage 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 to work with

ACCESSORIES AND SPARE PARTS

EYEPIECES

IS.6210 EWF 10x/22 mm eyepiece (Ø 30mm tube)

IS.6210-C EWF 10x/22 mm eyepiece with cross hair (Ø30 mm tube)

IS.6210-P EWF 10x/22 mm eyepiece with pointer (Ø30 mm tube)

IS.6210-CM EWF 10x/22 mm eyepiece with 10/100 micrometer and cross hair (Ø30 mm tube)

IS.6212 WF 12.5x/17 mm eyepiece (Ø30 mm tube)

IS.6212-W WF 12.5x/17 mm eyepiece with Walton Beckett reticle (Ø30 mm tube)

IS.6215 WF 15x/16 mm eyepiece (Ø30 mm tube)

IS.6220 WF 20x/12 mm eyepiece (Ø30 mm tube)

IS.6299 Pair of eyecups for infinity corrected iScope® models

PLAN PLMI INFINITY CORRECTED IOS OBJECTIVES FOR MATERIALS SCIENCE

IS.8105 Plan PLMi 4x/0.12 IOS objective without 0.17 mm cover glass correction. WD 15.5 mm

IS.8110 Plan PLMi 10x/0.25 IOS objective without 0.17 mm cover glass correction. WD 10 mm

IS.8120 Plan PLMi 20x/0.40 IOS objective without 0.17 mm cover glass correction. WD 5.8 mm

IS.8150 Plan PLMi S50x/0.70 IOS objective without 0.17 mm cover glass correction. WD 0.32 mm

IS.8100 Plan PLMi S100x/0.80 IOS objective without 0.17 mm cover glass correction. WD 2 mm

PLAN PLI INFINITY CORRECTED IOS OBJECTIVES FOR ASBESTOS RESEARCH

IS.7202 PLan PLi 2x IOS objective with 0.17 mm cover glass correction. WD 20.2 mm

IS.7204 PLan PLi 4x/0.12 IOS objective with 0.17 mm cover glass correction. WD 15.4 mm

IS.7210 PLan PLi 10x/0.25 IOS objective with 0.17 mm cover glass correction. WD 10 mm

IS.7220 PLan PLi 20x/0.40 IOS objective with 0.17 mm cover glass correction. WD 5.1 mm

IS.7210 PLan phase PLPHi 40x/0.65 IOS objective with 0.17 mm cover glass correction. WD 0.54 mm

IS.7260 PLan PLi 60x/0.85 IOS objective with 0.17 mm cover glass correction. WD 0.14 mm

IS.7200 PLan PLi 100x/1.25 IOS objective with 0.17 mm cover glass correction. WD 0.19 mm

PLAN PLPOLI INFINITY CORRECTED IOS OBJECTIVES FOR POLARIZATION
without reflected illumination attachment

IS.7904-T Plan PLPOLi 4x/0.12 IOS objective with 0.17 mm cover glass correction. WD 15.5 mm

IS.7910-T Plan PLPOLi 10x/0.25 IOS objective with 0.17 mm cover glass correction. WD 10 mm

IS.7920-T Plan PLPOLi 20x/0.40 IOS objective with 0.17 mm cover glass correction. WD 5.8 mm

IS.7940-T Plan PLPOLi S40x/0.65 IOS objective with 0.17 mm cover glass correction. WD 2.9 mm

IS.7960-T Plan PLPOLi S60x/0.80 IOS objective with 0.17 mm cover glass correction. WD 0.14 mm

IS.7900-T Plan PLPOLi S100x/1.25 IOS objective with 0.17 mm cover glass correction. WD 1 mm

PLAN PLPOLRI INFINITY CORRECTED IOS OBJECTIVES FOR POLARIZATION
with reflected illumination attachment

IS.7905-R Plan PLPOLi 4x/0.12 IOS objective without 0.17 mm cover glass correction. WD 15.5 mm

IS.7910-R Plan PLPOLi 10x/0.25 IOS objective without 0.17 mm cover glass correction. WD 10 mm

IS.7920-R Plan PLPOLi 20x/0.40 IOS objective without 0.17 mm cover glass correction. WD 5.8 mm

IS.7950-R Plan PLPOLi S50x/0.65 IOS objective without 0.17 mm cover glass correction. WD 0.92 mm

IS.7900-R Plan PLPOLi S100x/0.80 IOS objective without 0.17 mm cover glass correction. WD 2 mm

TRANSMITTED KÖHLER ILLUMINATION SYSTEM

IS.9700 Blue filter 45 mm for lamphouse

IS.9702 Green filter 45 mm for lamphouse

IS.9704 Yellow filter 45 mm for lamphouse

IS.9706 White opaque filter 45 mm for lamphouse

SL.5503 3 W NeoLED™ replacement unit

POLARIZATION ATTACHMENT
without reflected illumination

IS.9602 Polarizer

IS.9604 Quartz wedge in slider

IS.9608 Analyzer 0-360° rotatable

IS.9610 Lamda plate first red 530 nm in slider

IS.9612 Lamda/4 retardation plate in slider

POLARIZATION ATTACHMENT
with reflected 50W/12V halogen illumination

IS.9602-R Polarizer

IS.9604-R Quartz wedge in slider

IS.9608-R 360° rotatable analyzer in slider

IS.9610-R Lamda plate first red 530 nm

IS.9612-R Lamda/4 retardation plate in slider

MATERIALS SCIENCE ATTACHMENT
with reflected NeoLED™ epi-illumination

IS.9230 Reflected NeoLED™ epi-illumination attachment with for materials science with 5x, 10x, 20x and S50x objectives. Supplied with a 0-90° polarizer mounted in a slider, a fixed analyzer in slider, a white, yellow and blue filter, all mounted in a slider. With external 100-240 Vac/ 7.5 Vdc power adapter

IS.9720 Blue filter in slider

IS.9722 Green filter in slider

IS.9724 Yellow filter in slider

IS.9726 White filter in slider

IS.9727 Polarizer 0-90° in slider for materials science attachment (IS.9230)

IS.9728 Analyzer 0-360° rotatable in slider for materials science attachment (IS.9230)

IS.9731 Slider with green and blue filters

IS.9515 Metal plain insert for mechanical stage

IS.9518 Glass plain insert for mechanical stage

MISCELLANEOUS

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

IS.9522 Optional 30 x 40 mm X-Y mechanical stage for round polarization stage

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

Ceramic stage ●

MATERIALS SCIENCE MICROSCOPES

bscope®

FEATURED

bScope®

for materials science

The well-equipped microscopes of the bScope® microscopes 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 materials research and quality assurance laboratories

The design of he bScope® is both ergonomic and evolutive. Wide field WF 10x/22 mm eyepieces and low focusing controls to minimize fatigue during long working sessions and therefore provide more comfort for microscopists. The robust and compact size of the bScope® together with the Cable Storage System allow more working space, safer operation and easy storage

● *BS.1053-PLMi*

**TRINOCULAR MODEL
BS.1053-PLMi**

Dimensions	Weight
(h) 505 x (w) 195 x (d) 470 mm	8.5 kg

HIGHLIGHTS

- Materials science microscopes
- Trinocular models
- WF 10x/22 mm eyepieces
- Reversed ball-bearing quintuple nosepiece with slot for polarization filter
- Plan M-IOS objectives
- Polarizer and analyzer filters
- Rackless integrated X-Y mechanical stage
- 3 W NeoLED™ adjustable transmitted and reflected NeoLED™ illumination
- Integrated carrying grip
- Cable Storage System and anti-theft system
- 10 years warranty

BS.1053-PLMi ●

SPECIFICATIONS

EYEPIECES
Wide field WF 10x/22 mm eyepieces with 22 mm field of view (Ø 30 mm tube)

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

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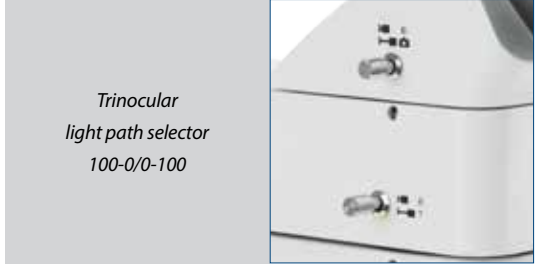
*Trinocular
light path selector
100-0/0-100*

NOSEPIECE
Revolving and reversed ball-bearing quintuple nosepiece

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

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 S80x/0.80 and S100x/0.85 DIN IOS objective are also available

The S80x and S100x oil immersion objectives are spring loaded.

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

FOCUSING

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

STAGE

The bScope® is equipped with a scratch resistant 185 x 140 mm stage with integrated 74 x 48 mm X-Y rackless mechanical stage, Vernier scale, soft-close removable specimen holder

The rackless stage has no protruding parts, enables more smooth movements and is safer in use. Low-positioned X-Y control knobs prevent fatigue during long working sessions

CONDENSER FOR BRIGHTFIELD

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

POLARIZATION

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

NEOLED™ REFLECTED ILLUMINATION

Reflected intensity adjustable 3 W 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

NEOLED™ TRANSMITTED ILLUMINATION

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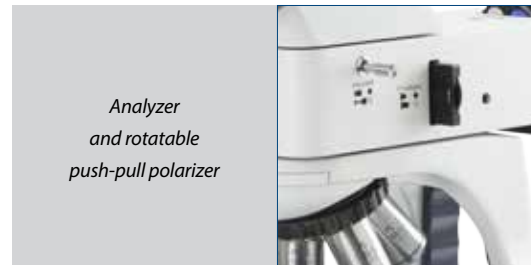
KÖHLER ILLUMINATION

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

CORDLESS USE

The optional rechargeable batteries turn the bScope® into a cordless system (only available for the transmitted illumination)

CSS – CABLE STORAGE SYSTEM

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

Analyzer and rotatable push-pull polarizer

Reflected illumination with rotating color filter disc

Ergonomic carrying grip for easy transportation

CARRYING GRIP

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

ANTI-THEFT SLOT

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

PACKAGE CONTENT

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

MODELS	Binocular	Trinocular	WF 10x/22 mm eyepieces	PLMi 5x/10x/20x/50x IOS objectives	PLMi 100x IOS objective	Transmitted NeoLED™ Köhler illumination	Relfected NeoLED™ Köhler illumination
BS.1052-PLMi	•		•	•		•	•
BS.1053-PLMi		•	•	•		•	•
BS.1152-PLMi	•		•	•	•	•	•
BS.1153-PLMi		•	•	•	•	•	•

ACCESSORIES AND SPARE PARTS

EYEPIECES

BS.6310 WF 10x/22 mm eyepiece, Ø 30 mm tube

BS.6310-M WF 10x/22 mm eyepiece, Ø 30 mm tube with 10/100 micrometer

BS.6315 WF 15x/12 mm eyepiece, Ø 30 mm tube

BS.6399 Pair of eyecups, Ø 30 mm tube

OBJECTIVES

BS.8105 Plan M-IOS DIN 5x/0.12 infinity corrected objective. WD 26.1 mm

BS.8110 Plan M-IOS DIN 10x/0.25 infinity corrected objective. WD 20.20 mm

BS.8120 Plan M-IOS DIN 20x/0.40 infinity corrected objective. WD 8.80 mm

BS.8150 Plan M-IOS DIN 50x/0.70 infinity corrected objective. WD 3.68 mm

BS.8180 Plan M-IOS DIN 80x/0.80 infinity corrected objective. WD 1.25 mm

BS.8100 Plan M-IOS DIN 100x/0.85 infinity corrected objective. WD 0.40 mm

POLARIZATION

BS.9602 Analyzer in mount for under nosepiece

BS.9645 Polarizer, for lamphouse

BS.9601-R Polarizer in slider for reflected illumination attachment

MISCELLANEOUS

BS.9105 Swing-out Abbe condenser 0.9/1.25 NA

BS.9170 Darkfield stop for standard Abbe condenser with slot

AE.1370 Set of rechargeable batteries, three pieces

BS.9515 Metal plain insert for mechanical stage

BS.9518 Glass plain insert for mechanical stage

AE.5130 Universal ø 23.2 mm tube adapter with built-in 2x lens for SLR photo camera with APS-C sensor. Needs T2 adapter

AE.5025 T2 ring for Nikon D SLR digital camera

AE.5040 T2 ring for Canon EOS SLR digital camera

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

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

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

PB.5245 Lens cleaning paper, 100 sheets per pack

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

PB.5274 Isopropyl alcohol 99% (200 ml)

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

MATERIALS SCIENCE MICROSCOPES

Oxion

Oxion
for materials science

Oxion microscopes for materials science are specifically designed for the observation of many types of materials in research laboratories of universities, professionals and 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
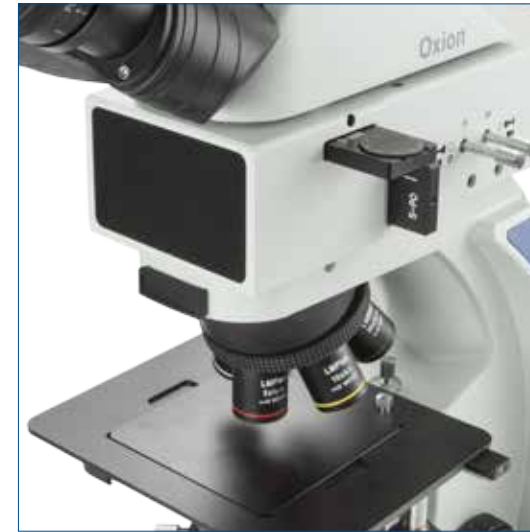
● *OX.3245*

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**

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 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, 20x/0.40 and plan semi apochromatic LWD 50x/0.55 and 100x/0.80 objectives
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 range is approximately 28 mm.
Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control

Reflected illumination unit with oblique lighting feature

STAGE

180 x 145 mm stage with integrated mechanical 78 x 45 mm X-Y stage. Is supplied with plain metal and plain glass inserts
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

TRANSMITTED ILLUMINATION

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

REFLECTED EPI-ILLUMINATION

Intensity adjustable 3 W NeoLED™ Köhler illumination with external 110-240 Vac / 5 Vdc power supply. Push-pull type 90° rotatable polarizer and fixed analyzer. Built-in condenser with field and aperture iris diaphragm. Oblique lighting feature. Supplied with blue and green filter

PACKAGE CONTENT

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

Detail of reflected illumination

OX.3240 ●

ACCESSORIES AND SPARE PARTS

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

AE.3172 Plan achromatic M-IOS DIN PL 5x/0.14 objective. WD 10.8 mm
AE.3173 Plan achromatic M-IOS DIN PL 10x/0.25 objective. WD 10 mm
AE.3175 Plan achromatic M-IOS DIN PL 20x/0.40 objective. WD 4 mm
AE.3177 Plan semi apochromatic M-IOS DIN 50x/0.55 objective. WD 7.9 mm
AE.3179 Plan semi apochromatic M-IOS DIN 100x/0.80 objective. WD 2.1 mm

AE.3185 Slider with darkfield 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 lamphouse

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

AE.3196 Frosted filter 45 mm, for lamphouse
AE.3198 Blue filter 45 mm, for lamphouse
AE.3200 Yellow filter 45 mm, for lamphouse
AE.3202 Green filter 45 mm, for lamphouse
AE.3205 Blue interference 480 nm filter (for reflected illumination unit)
AE.3206 Green interference 520-570 nm filter (for reflected illumination unit))
AE.3208 White color balance interference filter (for reflected illumination unit)
OX.9515 Metal plain insert for mechanical stage
OX.9518 Glass plain insert for mechanical stage
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	•	•	•	•	•

MATERIALS SCIENCE MICROSCOPES

Oxion

FEATURED

Oxion Inverso
for materials science

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

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 ●

SPECIFICATIONS

EYEPIECES
Pair of DIN HWF plan 10x/22 mm eyepieces

NOSEPIECE
Revolving quintuple nosepiece on ball-bearings

HEAD
Trinocular 45° inclined tubes with extended low and high positions. One diopter adjustment on left eyepiece. Interpupillary distance of 54 to 75 mm.
Trinocular head with light path selector 100-0/80-20

OBJECTIVES
Infinity color corrected long WD 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 a plan semi apochromatic S100x/0.80 IOS objective. No cover glass correction
All optics are anti-fungus treated and anti-reflection coated for maximum light throughout

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
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
Blue and green filter mounted in slider, that can be inserted at the back of the illumination attachment. Polarization filter in slider, to be inserted under nosepiece

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

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

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

OBJECTIVES

OX.8205 Plan achromatic PLM 5x/0.14 IOS objective. WD 10.8 mm

OX.8210 Plan achromatic PLM 10x/0.25 IOS objective. WD 10 mm

OX.8220 Plan achromatic PLM 20x/0.40 IOS objective. WD 4 mm

OX.8250 Plan semi apochromatic PLM S50x/0.55 IOS objective. WD 7.9 mm

OX.8200 Plan semi apochromatic PLM S100x/0.80 IOS objective. WD 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

FILTERS

OX.9700 Blue filter in slider, for illumination attachment

OX.9702 Green filter in slider, for illumination attachment

OX.9710 Polarization filter in slider, fits under nosepiece

C-MOUNT ADAPTERS

OX.9810 CS/C mount with 1.0x objective

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

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

*Large stage with X-Y mechanical stage*

MISCELLANEOUS

AE.3199 Glass fuses 3.15 A 250 V, 10 pcs

SL.3679 Halogen spare bulb 12 V 50 W

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 tube. 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

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
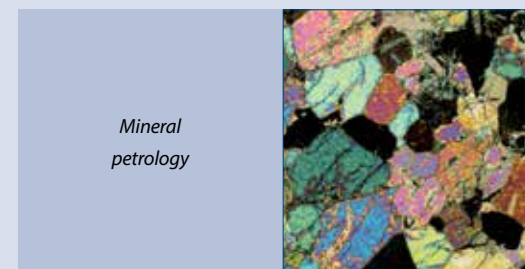
Mineral petrology
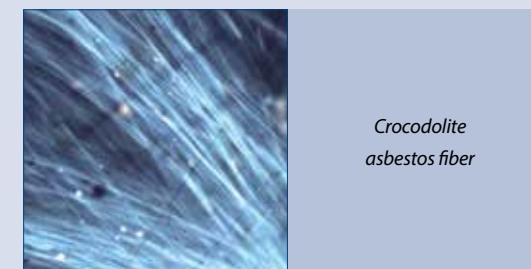
Crocodolite asbestos fiber

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 such as DSO (Dispersion Staining Objectives) and phase contrast equipment can be added for specifc indentification of asbestos fibers
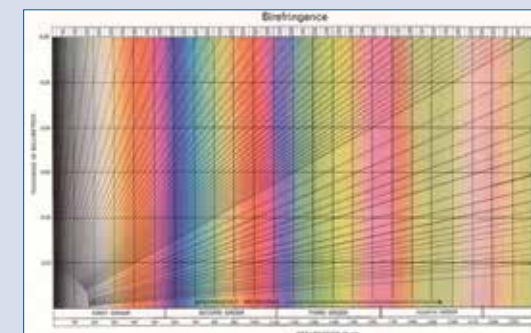
Michel-Levy chart ●

*   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

Digital**Solutions**

Industry

Digital**Solutions**
Industry

The Euromex digital industrial solution product range allows you to create your personal digital workstation. If your objective is 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 the latest available technology in this field such as WiFi, HDMI and sCMOS sensors. Our digital solutions packages include the powerful ImageFocus software for image analysis

● CMEX-1

● CMEX-18 Pro

CMEX USB-2 cameras
with CMOS sensor

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

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

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

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

Advanced CMEX USB-3 cameras
with CMOS sensor

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

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

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

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

● sCMEX

● DC.5000i

sCMEX USB-3 cameras
with Scientific grade sCMOS sensor
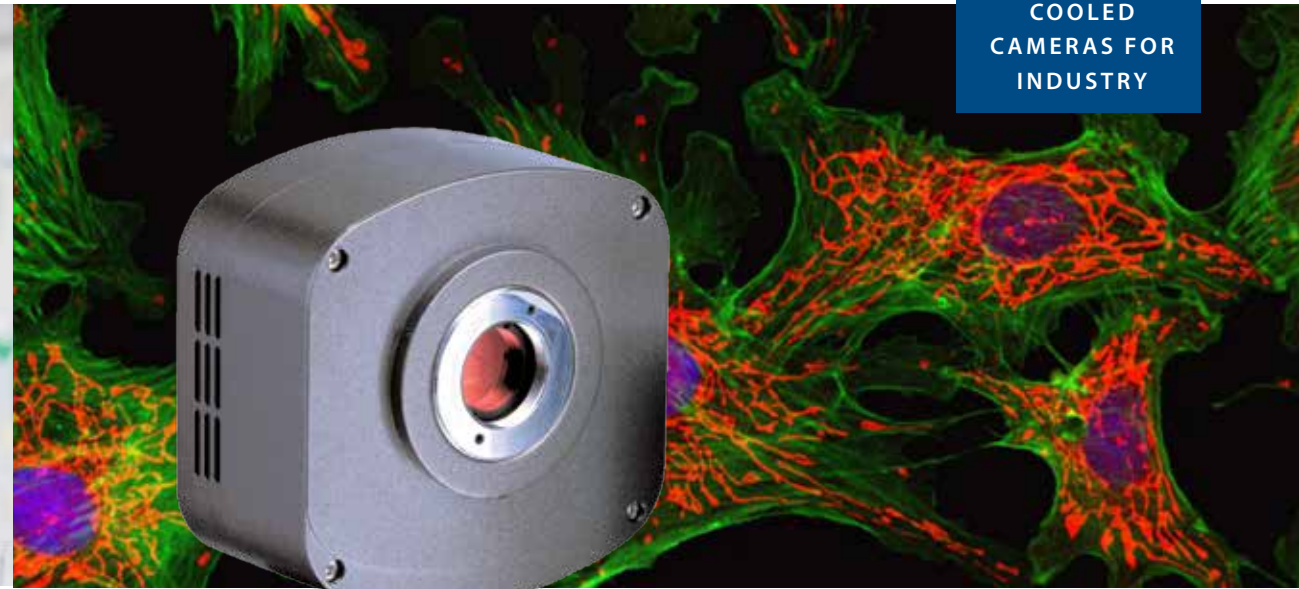
Euromex 5.0 MP camera
CCD cooled color

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

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

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

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

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

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

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	3	16 bits	36 bits	55	74	0.5	DC.5000i
					1280 x 932	12						

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

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

HD AND HD-AUTOFOCUS CAMERAS

FEATURED

● VC.3036

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

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

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

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

definition HD screen, TV-HD or HD-beamer with a HDMI input and the system is ready to go. The mouse-driven built-in software of the camera enables captured images and recorded videos (1) to be saved on the integrated SD memory card

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

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

HIGHLIGHTS

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

● *Back panel of VC.3036*

Euromex supplies free software updates on www.euromex.com. Besides extended camera settings, the software can save images in JPG, TIFF or BMP formats and record videos in .avi format on the hard disk of the computer. The software offers different measurement functions on live and captured images and also full control over the camera parameters. Specific functions for fluorescence, such as histogram adjustments and combining captured fluorescence images, are also available with the ImageFocus 4 software

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

PACKAGE CONTENT

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

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

BUILT-IN SOFTWARE FEATURES

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

WIFI CAMERA

FEATURED

● CMEX-WiFi 5

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

The CMEX-WiFi 5 camera is equipped with a 5.0 MP CMOS sensor with 12 bits grayscale conversion and a 24 bits color rendering.
The CMEX camera streams H.264 encoded high resolution images simultaneously to several WiFi enabled smartphones, tablets or computers with iOS, Android or Windows operating systems

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

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

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

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

MODEL	Sensor	Sensor size (inches)	Pixels size (μm)	Resolutions	Grayscale conversion	Color rendering	Signal/ Noise(db)	Dynamic (db)	Sensibility V/lux-sec	Product number
CMEX-WiFi 5	CMOS	1/2.5"	2.2 x 2.2	1280 x 720	12 bits	24 bits	43	61	1.0	DC. 5000-WiFi

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

TABLET CAMERAS

ProPad

ProPad tablet

with microscope camera and keyboard-docking station

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

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

SOFTWARE

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

HIGHLIGHTS

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

SPECIFICATIONS

ProPad and keyboard-docking station

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

Specifications can be changed by Euromex microscopen bv without prior notice

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

CAMERA
FOR SCIENCE
AND INDUSTRY

FREE UPDATES
AVAILABLE ON
EUROMEX.COM

CCD CAMERA

SOFTWARE

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

● *VC.3032*

The Euromex analog camera VC.3032 offers the perfect solution to modern microscopy for industry and laboratories where real-time images are needed. These high resolution cameras can be used for either biological or stereo microscopes. The cameras are equipped with very sensitive sensors with brightfield and darkfield applications and suitable for phase contrast and coaxial illumination
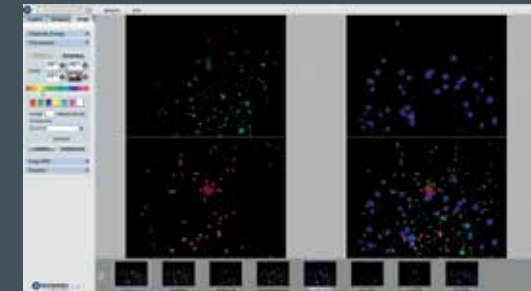
REALTIME
The real-time images generated with this camera provide extremely well true-to-live colors without any delay. Most camera settings are done automatically, a feature that makes the cameras ideal for real-time inspection, education and demonstrations. Connection is done using BNC (composite), SCART or S-video for connection to TV, monitors or beamers

ImageFocus 4
software

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

ImageFocus4 has a wide range of functions:
- Measurements can be done on still and live image
- The brightness, contrast and saturation of captured images can be adjusted
- Camera parameters for exposure time, white balance and color control are easily accessible
- The software also has specific functions for fluorescence such as combining captured fluorescence images
- Compatible with Windows 7, 8 and 10, both 32 and 64 bits configuration. A Mac OS Light version is also available for capturing images*
- PC requirements: Intel Core2 2.8 GHz or higher or equivalent, 2GB memory or more, 17" screen

* Mac version not available for VC Series

ImageFocus Alpha
software

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

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

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

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

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

INDUSTRY DIGITAL SOLUTIONS

INDUSTRY DIGITAL SOLUTIONS

9

9

ADAPTERS

OX.9850 ●

Adapter Guide
Microscope and camera

Most Euromex cameras are supplied with (a) standard plug & play adapter(s), which means that it can be connected to any Euromex microscope, except for the Oxion and Oxion Inverso series.
These microscopes need an additional adapter, see next page.
Do you want to connect one of our cameras to an other microscope brand, please find adapter references below:

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

[1] Leica DM, 35 mm to 25.4 mm C-mount, stainless steel
[2] Olympus CX , CX2, BX, BX2, IX, MX, GX, SZX, STM, 35 mm to 25.4 mm C-mount, anodized aluminum
[3] Zeiss PrimoStar, PrimoStar Vert, 30 mm to 25.4 mm C-mount, anodized aluminum
[4] Nikon E100, E200, 50i, 55i, 80i, 90i, Ni series, Ti Series, SMZ800,SMZ1000, SMZ15000, 38 mm to 25.4 mm C-mount, stainless steel

AE.9835-O ●

STANDARD PLUG & PLAY

C-mount adapters for standard ø 23.2 mm tube

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

[1] for increased light efficiency

DIGITAL SLR ADAPTERS

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

AE.5130 Universal SLR camera adapter for 23.2 mm tubus with built-in 2x magnification lens. Needs T2 adapter
AE.5120 Standard 23.2 mm diameter tube for Oxion photo port (revision 2)
AE.5025 T2 adapter for Nikon D digital SLR cameras
AE.5040 T2 adapter for Canon EOS digital SLR cameras

Other T2 adapters on request

● *DC.1555*   ● *DC.1330 / DC.1335*   ● *DC.1324*   ● *AE.5130*   ● *AE.5120*

PHOTO PORT ADAPTERS

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

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

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

Accessories

for microscopy

# Accessories
for microscopy

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

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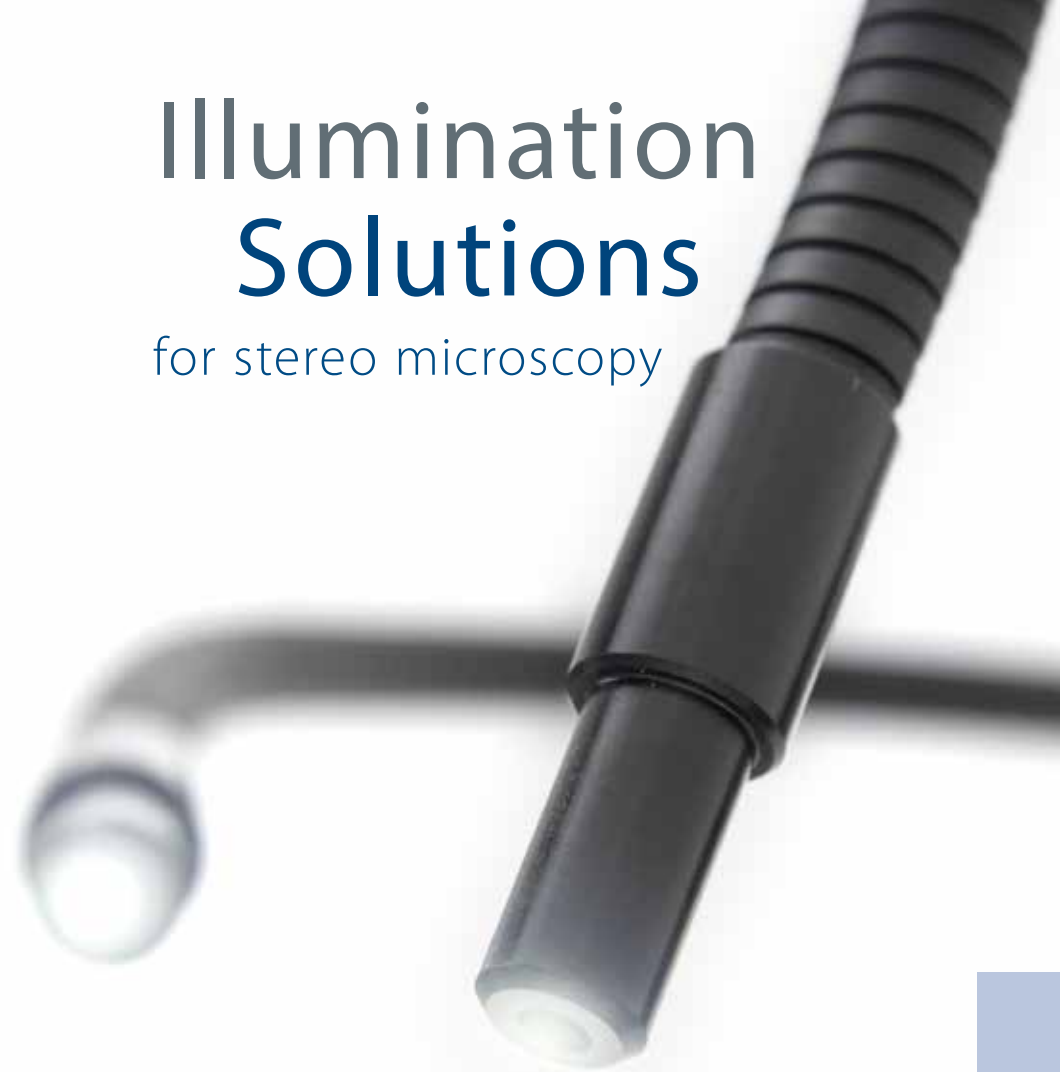
Illumination
Solutions
for stereo microscopy

For stereo microscopes choosing the right illumination is essential to obtain a perfect image with maximum resolution. LED light sources have a much longer lifetime, less energy consumption and less heating than halogen light sources

The major advantage of LED illumination is
the constant light spectrum at all light intensity levels.
These light sources are suitable for all kind of
applications in industry, Life Sciences and Materials Sciences

The right light source solution

can enhance and reveal the

details you want to examine

Multifunctional 150 W halogen or 30 W PowerLED

cold light source

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

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

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

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

[1] with LE.5214 dual arm light conductor

Multifunctional 100 W halogen

cold light source

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

Power	100 W halogen
Luminous flux	20,000 lux max. [1]
Color temperature	3,000 K
Operating voltage	100 and 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**

[1] with LE.5214 dual arm light conductor

Compact single 20 W

light source

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

Power	20 W halogen
Color temperature	3,000 K
Operating voltage	110 V AC and 230 V AC versions (50/60 Hz)
Dimensions	(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	2x 1 W LED = 2x 20 W halogen equivalent
Luminous flux	18, 000 lux max. (2 LED's)
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**

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	23,000 lux at 100 mm distance
working distance:	from 55 to 200 mm
Mounting	for stereo head with diameter from 25 to 61 mm
Power supply	100-240 V AC / 12 V DC (50/60 Hz) / 4.5 Watt
External diameter	100 mm
Model	**LE.1973**

Compact 72 LEDs
ring light source

Compact 20,000 lux LED ring light source

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

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

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

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

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

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

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

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

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

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

ACCESSORIES AND SPARE PARTS

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

FIBER LIGHT CONDUCTORS

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

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

LE.5215 Triple arm fiber light conductor,
Gooseneck self-sustaining,
50 cm long, 4 mm diameter

LE.5219 Dual arm fiber light conductor,
Gooseneck self-sustaining,
70 cm long, 4 mm diameter

LE.5239 Slit ring-shaped fiber light conductor
60 cm long, 8 mm diameter

LE.5240 Slit ring shaped fiber light conductor
100 cm long, 8 mm diameter

LE.5241 Flexible fiber light conductor,
curved 90°, 60 cm long, 4 mm diameter

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

LE.5235 Dual arm flexible fiber light conductor,
100 cm long, 4 mm diameter

LE.5235-3 Dual arm flexible fiber light conductor,
300 cm long, 4 mm diameter

LE.5217 Triple arm flexible fiber light conductor,
100 cm long, 4 mm diameter

LE.5218 Single arm flexible fiber light conductor,
100 cm long, 8 mm diameter

LE.5220 Single arm flexible fiber light conductor,
200 cm long, 8 mm diameter

LE.5222 Focusing head for focusing lens LE.5224, LE.5228
or filters LE.5223, LE.5229 and LE.5231
(for fiber light conductors)

LE.5224 Focusing lens. Requires LE.5222 or LE.5228 for
mounting on LE.5213, LE.5214 and LE.5215

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

LE.5223 Set of 3 color filters (red, blue, green),
suitable for LE.5222 and LE.5228

LE.5229 Polarization filter

LE.5231 Conversion KB12/80B filter

HALOGEN BULBS AND FUSES

SL.5208 Halogen 20 W 12 V bulb with reflector
(3,000 hrs nominal), GU4 fits LE.5209

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

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

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

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

AE.5227 Spare fuses 1A/250 V, 10 pieces

FOR LE.1863

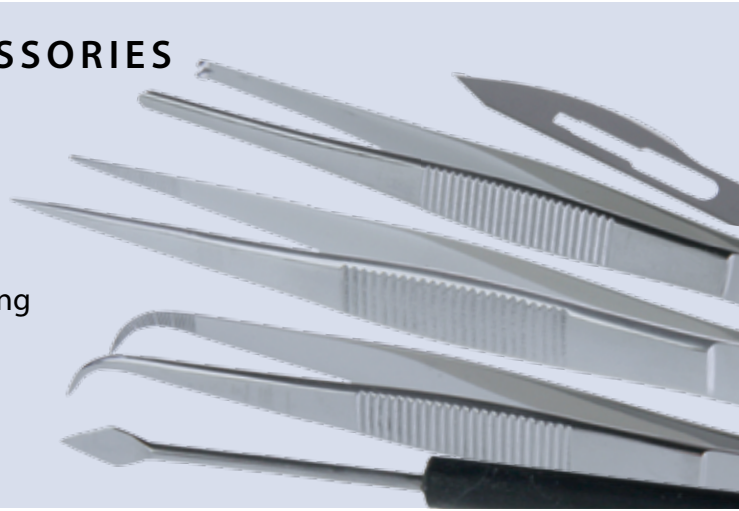**SL.1864** Spare fluorescence lamp

FOR LE.1980 AND LE.1981

LE.1984-050 Fresnel lens, WD from 40 to 80 mm

LE.1984-100 Fresnel lens, WD from 80 to 150 mm

LE.1984-200 Fresnel lens, WD from 150 to 240 mm

LE.1984 Diffusing filter, for WD from 40 to 300 mm

LE.1985 Glass protection window

LE.1987 Polarizing filter

LE.1888 Rotatable polarizing filter

LE.1992 100-230 V power supply analog controller.
Intensity adjustable from 0-100%

LE.1993 100-230 V power supply digital segment
controller. Intensity adjustable from 0-100%

FOR LE.1990 AND LE.1991

LE.1994-050 Fresnel lens, WD from 40 to 80mm

LE.1994-100 Fresnel lens, WD from 80 to 150 mm

LE.1994-200 Fresnel lens, WD from 150 to 240 mm

LE.1994 Diffusing filter, for WD
from 40 to 300 mm

LE.1995 Glass protection window

LE.1997 Polarizing filter

LE.1998 Rotatable polarizing filter

LE.1992 100-230 V power supply analog controller.
Intensity adjustable from 0-100%

LE.1993 100-230 V power supply digital segment
controller. Intensity adjustable from 0-100%

PREPARATION ACCESSORIES

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

Dissection instruments

PB.5050 Dissecting needle, straight tip with plastic handle

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

PB.5056 Blunt-pointed probe, Ø2 mm, length 140 mm

PB.5058 Section lifter with wooden handle

PB.5060 Serrated thumb dressing forceps, length 13 mm

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

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

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

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

PB.5077 Cover glass forceps, length 11 cm

PB.5050
PB.5054
PB.5056
PB.5058
PB.5060
PB.5062
PB.5064
PB.5067
PB.5077
PB.5069

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 knifes. Includes stropping paste

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

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

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

PB.5092
PB.5094
PB.5095
PB.5096
PB.5105
PB.5106
PB.5103
PB.5084
PB.5080
MT.5503
MT.5501
MT.5500

DISSECTION KITS

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

Kit with straight dissecting needle (PB.5050), dissecting forceps (PB.5067), dissecting scissors (PB.5084) and scalpel (PB.5092). Supplied with imitation leather case

PB.5110

6-PC Dissection kit
PB.5111 in plastic case

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

PB.5111

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

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

PB.5112

9-PC Dissection kit
PB.5114 in wooden cabinet

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

PB.5114

6-PC Dissection kit for Koi fish
PB.5115 in plastic case

Dissecting set for Koi fish. Consisting of plastic box with forceps with 1 x 2 points (PB.5060), forceps blunt points, 13 cm (PB.5062), scissors, blunt/ sharp points, 14 cm (PB.5080), microscope scissors, sharp points, 11 cm (PB.5084), blunt-pointed probe (PB.5056), scalpel handle no. 4 (PB.5094), five scalpel blades with straight tip and five blades with blunt tip (PB.5095/PB.5096)

PB.5115

Professional slide preparation kit
PB.5125 in plastic deluxe case

Kit with three prepared slides, 50 microscope slides (PB.5150) and 100 cover glasses (PB.5165). Two microscope slides with cavity. Canada balsam, dissecting needle (PB.5050 and PB.5054). Dissecting forceps (PB.5067), dissecting scissors (PB.5084) and scalpel (PB.5092). Supplied with plastic deluxe case

PB.5125

MICROSCOPE PREPARED SLIDES

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

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

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

HISTOLOGY

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

ZOOLOGY

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

BOTANY

SB.2006	Allium cepa, onion, scale epidermis, w.m.
SB.2009	Allium cepa, onion, mitosis root tip, l.s.
SB.2055	Zea mays, corn, stem, cs.
SB.2060	Triticum aestivum, wheat, stem, c.s.
SB.2070	Helianthus, sunflower, young stem, c.s.
SB.2130	Helianthus, sunflower, leaf, c.s.
SB.2205	Monocot/dicot flower, zea mays/ranunculus, c.s.
SB.2212	Lilium, lily, ovary, c.s.
SB.2335	Mnium, w.m.
SB.2355	Rhizopus nigricans,bread mold, developed sporangia
SB.2377	Diatoms, w.m.
SB.2381	Spirogyra sp., vegetative mass, w.m.
SB.2405	Dental plaque, smear

25 Slides set of histology, zoology and botany
PB. 5212 for education

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

HISTOLOGY

SH.1001	Loose connective tissue, rabbit
SH.1005	Hyaline cartilage rabbit, section
SH.1160	Lymph node, rabbit, section
SH.1230	Small intestine, dog, c.s.
SH.1250	Liver, pig, section
SH.1430	Cerebrum section, dog

ZOOLOGY

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

BOTANY

SB.2095	Monocot/dicot stem, zea mays/pumpkin, c.s.
SB.2105	Hibiscus, young stem, c.s.
SB.2110	Cucurbita, pumpkin, stem, l.s.
SB.2115	Sambucus, elderberry or Morus Alba, mulberry, stem with cork cambium + lenticels, c.s.
SB.2160	Lilium, lily leaf, c.s.
SB.2225	Zea mays, corn, corn seed with embryo, l.s.
SB.2235	Pirus, pear, stone cells, section
SB.2240	Triticum aestivum, wheat, kernel, l.s.
SB.2305	Cyrtomium, holly fern, c.s. of rhizom
SB.2310	Cyrtomium, holly fern, section
SB.2386	Oscillatoria, blue-green algae

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

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

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

HISTOLOGY

SH.1006	Elastic cartilage, rabbit	SH.1130	Artery and vein, rabbit, c.s.
SH.1040	Smooth muscle, teased preparation, rabbit, l.s.+c.s.	SH.1410	Nerve, rabbit, c.s. and l.s
SH.1110	Lung with injected blood vessels, rabbit, c.s.		

ZOOLOGY

SZ.1535	Euglena virides, a flagellate with eyespot
SZ.1586	Hydra, w.m. of tentacles
SZ.1620	Schistosoma Japonicum, female, w.m.
SZ.1705	Apis mellifica, honey bee, posterior leg, w.m.
SZ.1733	Pieres brassicae, cabbage-white butterfly, part of wing
SZ.1738	Locusta, grasshopper, mouth parts, w.m.
SZ.1780	Insects - four types of legs, honey bee, house fly, house mosquito, spider
SZ.1877	Rana sp, frog, blood smea

BOTANY

SB.2011	Zea mays, corn root tip with hairs, l.s.
SB.2020	Helianthus, sunflower, old root, c.s.
SB.2025	Monocot/dicot plant roots, zea mays/helantius, c.s.
SB.2040	Solanum tuberosum, potato, starch grains
SB.2075	Tilia, lime tree, one year stem, c.s.
SB.2091	Ceratophyllum Demersum, hornwort, leave with air stomas, c.s.
SB.2100	Pelargonium hortorum, geranium, stem c.s.
SB.2337	Mnium, antheridial branch, l.s.
SB.2339	Mnium, archegonial branch, l.s.
SB.2373	Coprinus, ink caps mushroom, section of pleus
SB.2380	Spirogyra sp. in conjugation
SB.2420	3 types of bacteria, cocci, bacilli, spirelli

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

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

HISTOLOGY OF MAMMALS

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

ZOOLOGY

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

BOTANY

SB.2015	Ranunculus, buttercup, root c.s.
SB.2076	Tilia, lime tree, 1, 2 & 3 year stem, c.s. on one slide
SB.2080	Pinus - pine tree, stem l.s.
SB.2140	Triticum, wheat, leaf, c.s.
SB.2150	Monocot/dicot leaves,zea mays/ ligustrum lucidum, c.s.
SB.2230	Pinus, pine tree, male (cone) globose fruit l.s.
SB.2232	Pinus, pine tree, female (cone) globose fruit l.s.
SB.2315	Sporophyt w.m.
SB.2320	Cyrtomium, fern, leaf with sporangia
SB.2384	Volvox sp. w.m.

25 Slides set of histology, zoology and botany
PB. 5215 for education

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

HISTOLOGY

SH.1043	Cardiac muscle, dog, l.s.
SH.1070	Squamous epithelium, human, isolated cells from mouth, smear
SH.1315	Kidney rat, sec. cortex & medulla
SH.1420	Cerebellum section, dog
SH.1450	Spinal cord, rabbit, c.s.
SH.1470	Taste buds, rabbit, l.s.

ZOOLOGY

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

BOTANY

SB.2090	Hydrilla verticillata, hydrilla stem tip, l.s.
SB.2112	Cucurbita, pumpkin, stem, c.s.
SB.2135	Nerium oleander, leaf with sunken stomata, c.s.
SB.2210	Lilium, lily, anther with mature pollen, c.s.
SB.2214	Lilium, lily, pollen, different stages of meiosis
SB.2220	Capsella, shepherds' purse, ovary w. embryo in pre-cotyledon stadium, l.s.
SB.2222	Capsella, shepherds' purse, ovary w. embryo in cotyledon stadium, l.s.
SB.2234	Pinus, pine tree, pollen, w.m.
SB.2330	Marchantia, liverworts, thallus with gemma cup, c.s.
SB.2360	Saccaromyces sp., yeast, budding, w.m.
SB.2365	Penicillium sp., w.m.
SB.2410	Streptococus lactis, milk bacteria, smear
SB.2415	Bacillus subtilis, hay bacteria, smear

USED ABBREVIATIONS	
c.s.	cross section
l.s.	longitudinal section
w.m.	whole mount
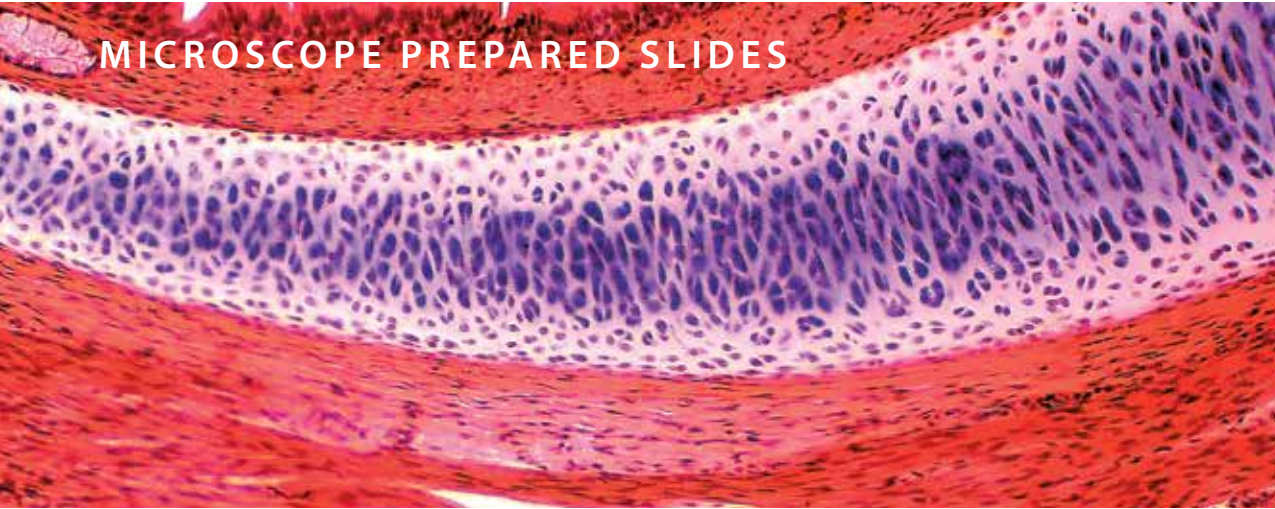
23 Slides of mammal histology
PB.5221 set for education

Set with 23 microscopy slides for education: histological samples of mammals.
All microscope slides are supplied in a plastic box for 25 slides. The set contains:

EPHITELIUM AND CONNECTIVE TISSUES

SH.1001 Loose connective tissue, rabbit

SH.1005 Hyaline cartilage, rabbit, section

SH.1011 Hard bone grinding, human, section

SH.1049 Muscle types, striated, smooth, heart muscle, dog, l.s.

SH.1060 Tendon, dog, l.s.

SH.1070 Squamous epithelium, human, isolated cells from mouth, smear

SH.1072 Skin section through hair follicle, human

SH.1078 Stratified flat epithelium, dog, section

RESPIRATORY, BLOOD CIRCULATION AND ENDOCRINE SYSTEM

SH.1120 Trachea rabbit, c.s.

SH.1130 Artery and vein, rabbit, c.s.

SH.1150 Blood smear, human, Giemsa stained

DIGESTIVE SYSTEM

SH.1210 Stomach wall, dog, section

SH.1230 Small intestine, dog, c.s.

SH.1250 Liver, pig, section

URINARY AND GENITAL SYSTEM

SH.1310 Injected kidney, rabbit, sec.

SH.1330 Testis, rabbit, c.s.

SH.1340 Ovary with developed eggs, rabbit

SH.1376 Human chromosomes in blood, female

NERVOUS SYSTEM AND SENSORY ORGANS

SH.1410 Nerve, rabbit, c.s. and l.s.

SH.1430 Cerebrum section, dog

SH.1450 Spinal cord, rabbit, c.s.

SH.1470 Taste buds, rabbit, l.s.

SH.1490 Retina, rabbit, sec.

23 Slides of mammal histology
PB.5222 set for education

Set with 23 microscopy slides for education: histological samples of mammals.
All microscope slides are supplied in a plastic box for 25 slides. The set contains:

EPHITELIUM AND CONNECTIVE TISSUES

SH.1006 Elastic cartilage, rabbit

SH.1012 Hard bone grinding of rabbit, tooth, de-calcium

SH.1040 Smooth muscle, teased preparation, rabbit, l.s.+c.s.

SH.1043 Cardiac muscle, dog, l.s.

SH.1045 Skeletal muscle, dog, l.s and c.s.

SH.1075 Skin section with sweat gland, human

SH.1080 Ciliated epithelium, trachea, rabbit

RESPIRATORY, BLOOD CIRCULATION AND ENDOCRINE SYSTEM

SH.1110 Lung with injected blood vessels, rabbit, c.s.

SH.1140 Pancreas, rabbit, section

SH.1160 Lymph node, rabbit, section

SH.1170 Thyroid gland, rabbit, section

SH.1180 Adrenal gland, rabbit, section

DIGESTIVE SYSTEM

SH.1220 Oesophagus dog, c.s.

SH.1235 Large intestine, dog, c.s.

SH.1260 Gall bladder, dog, section

**SH.1280** Golgi apparatus in 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
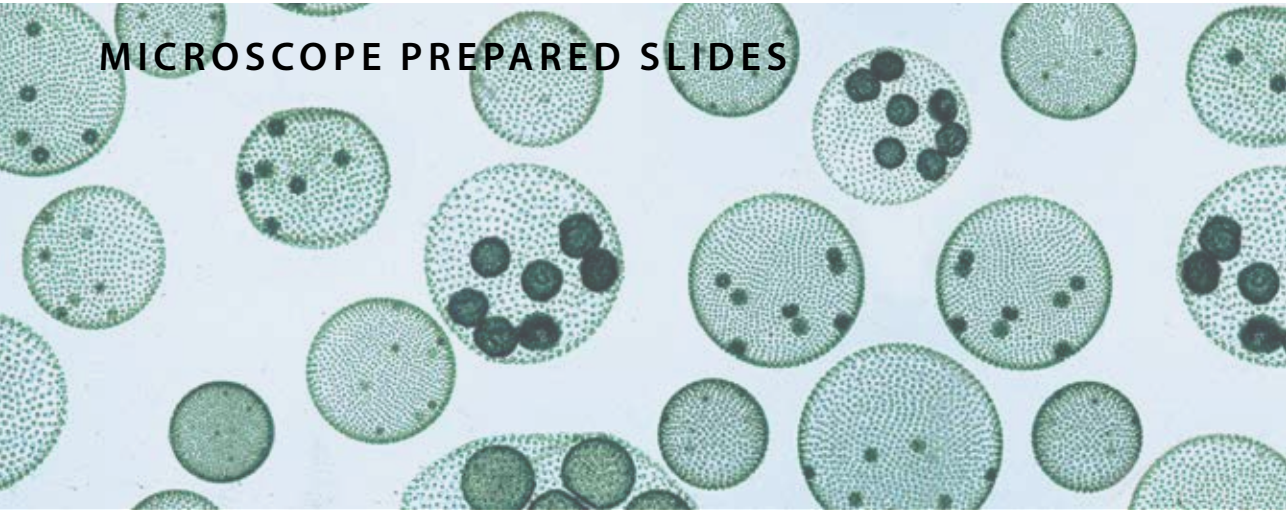
10 Slides of zoology and botany
PB.5204 set for hobby

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

All microscope slides are supplied in a plastic box with transparent cover for 25 slides. The set contains:
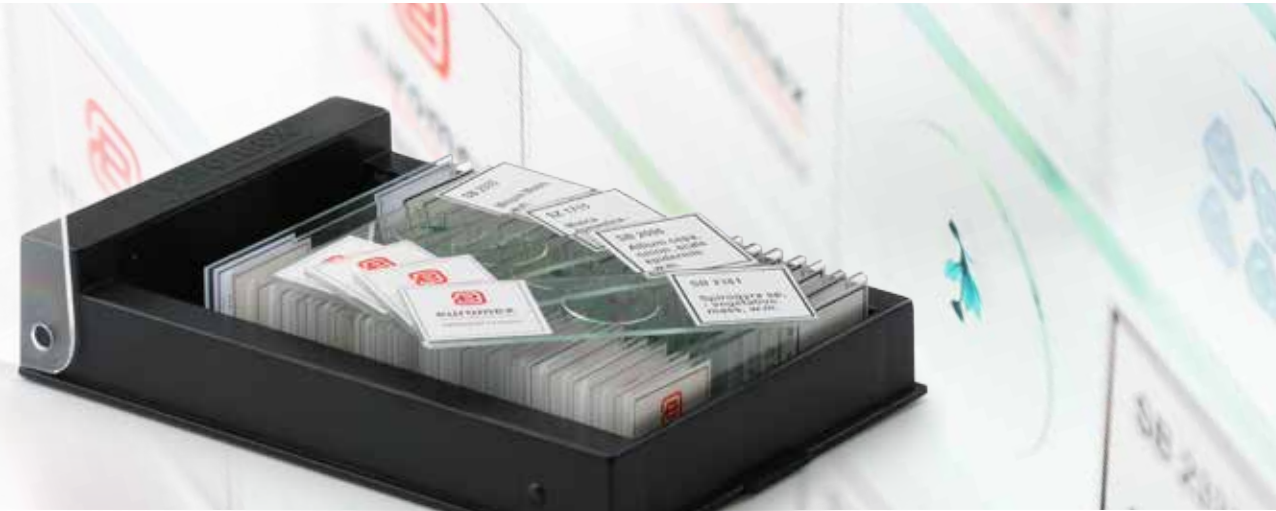
ZOOLOGY

SH.1040	Smooth muscle, teased preparation, rabbit, l.s.and c.s.
SH.1110	Lung with injected blood vessels, rabbit, c.s.
SZ.1708	Apis mellifica, honey bee, mouth parts
SZ.1733	Pieres brassicae, cabbage-white butterfly, part of wing
SZ.1877	Rana sp, frog, blood smear
SB.2015	Ranunculus, buttercup, root, c.s.

BOTANY

SB.2160	Lilium, lily leaf, c.s.
SB.2222	Capsella, shepherds' purse, ovary w. embryo in cotyledon stadium, l.s.
SB.2374	Aspergillus, brown mold, w.m.
SB.2384	Volvox sp., w.m.

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

25 Slides of histology, zoology and botany
PB.5218 set for hobby

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

All microscope slides are supplied in a plastic box with transparent cover for 25 slides. The set contains:

HISTOLOGY OF HUMAN AND MAMMALS

SH.1072	Skin section through hair follicle, human
SH.1150	Blood smear human, Giemsa stained
SH.1415	Motor nerve cells with end plates, rabbit w.m.
SH.1470	Taste buds, rabbit, l.s.

BOTANY

SB.2009	Allium cepa, onion, mitosis root tip, l.s.
SB.2055	Zea mays, corn, stem, cs.
SB.2075	Tilia, lime tree, one year stem, c.s.
SB.2100	Pelargonium hortorum, geranium, stem c.s.
SB.2112	Cucurbita, pumpkin, stem, c.s.
SB.2130	Helianthus, sunflower, leaf, c.s.
SB.2135	Nerium oleander, leaf with sunken stomata, c.s.
SB.2210	Lilium, lily, anther with mature pollen, c.s.
SB.2225	Zea mays, corn, corn seed with embryo, l.s

ZOOLOGY

SZ.1520	Paramecium, w.m.
SZ.1535	Euglena virides, a flagellate with eyespot
SZ.1580	Hydra with bud, w.m.
SZ.1630	Taenia, tapeworm pig, mature proglottid, w.m.
SZ.1635	Ascaris megalocephala, horse roundworm, female and male, c.s.
SZ.1640	Lumbricus, earthworm, c.s.
SZ.1655	Daphnia sp., water flea, w.m.
SZ.1705	Apis mellifica, honey bee, posterior leg, w.m.
SZ.1710	Apis mellifica, honey bee compound eye, c.s.
SZ.1719	Musca domestica, house fly, wing w.m.
SZ.1722	Culex pipiens, house mosquito, female, mouth parts
SZ.1724	Fruitfly, drosophila, giant chromosomes of salivary gland, w.m.

MICROSCOPE PREPARED SLIDES

Individual EuroSlides
Prepared slides

Euromex supplies complete sets and individual prepared microscope slides for educational use as well as for the hobby market

These high quality microscope slides are usually supplied directly from stock, at the very best prices. The slides on the next page are separately available

Individual EuroSlides
for Histology

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

EPHITELIUM AND CONNECTIVE TISSUES

SH.1001 Loose connective tissue, rabbit
SH.1005 Hyaline cartilage rabbit, section
SH.1006 Elastic cartilage, rabbit
SH.1011 Hard bone grinding, human, section
SH.1012 Hard bone grinding of rabbit, tooth, decalcium
SH.1040 Smooth muscle, teased preparation, rabbit, l.s. and c.s.
SH.1045 Skeletal muscle, dog, l.s. and c.s.
SH.1049 Muscle types, striated, smooth, heart muscle, dog, l.s.
SH.1060 Tendon, dog, l.s.
SH.1072 Skin section through hair follicle, human
SH.1078 Stratified flat epithelium, dog, section
SH.1080 Ciliated epithelium, trachea, rabbit

RESPIRATORY, BLOOD CIRCULATION AND ENDOCRINE SYSTEM

SH.1110 Lung with injected blood vessels, rabbit, c.s.
SH.1120 Trachea, rabbit, c.s.
SH.1130 Artery and vein, rabbit, c.s.
SH.1140 Pancreas, rabbit, section
SH.1150 Blood smear, human, Giemsa stained
SH.1160 Lymph node, rabbit, section

DIGESTIVE SYSTEM

SH.1220 Oesophagus, dog, c.s.
SH.1230 Small intestine, dog, c.s.
SH.1250 Liver, pig, section

URINARY AND GENITAL SYSTEM

SH.1310 Injected kidney, rabbit, section
SH.1330 Testis, rabbit, c.s.
SH.1340 Ovary with developed eggs, rabbit
SH.1360 Sperm, human, smear

NERVOUS SYSTEM AND SENSORY ORGANS

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

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)

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

Individual EuroSlides
for Zoology

This series of zoology microscopy slides consists of samples with single-cell organisms (protozoa), coelenterate, worms (helminthes), Crustaceans (crustaceae), insects and amphibians

PROTOZOA

SZ.1510   Amoeba proteus, w.m.
SZ.1520   Paramecium, w.m.
SZ.1522   Paramecium in conjugation w.m.

SZ.1535   Euglena virides, a flagellate with eyespot
SZ.1540   Trachelomonas, a free swimming type euglena

COELENTERATA

SZ.1580   Hydra with bud, w.m.

HELMINTHES

SZ.1630   Taenia, tapeworm pig, mature proglottid, w.m.
SZ.1635   Ascaris megalocephala, horse roundworm, female + male c.s.
SZ.1636   Ascaris megalocephala, horse roundworm, mitosis eggs
SZ.1640   Lumbricus, earthworm, c.s.

CRUSTACEANS

SZ.1655   Daphnia sp., water flea, w.m.

INSECTS

SZ.1705   Apis mellifica, honey bee, posterior leg, w.m.
SZ.1708   Apis mellifica, honey bee, mouth parts
SZ.1710   Apis mellifica, honey bee compound eye, c.s.
SZ.1719   Musca domestica, house fly, wing, w.m.
SZ.1720   Culex pipiens, house mosquito, larva, w.m.
SZ.1722   Culex pipiens, house modquito, female, mouth parts
SZ.1724   Drosophila, fruit fly, giant chromosomes of salivary gland, w.m.
SZ.1730   Pieres brassicae, cabbage-white butterfly, mouth, w.m.
SZ.1733   Pieres brassicae, cabbage-white butterfly, part of wing
SZ.1738   Locusta, grasshopper, mouth parts, w.m.
SZ.1760   Ctenocephalus canis, dog flea, w.m.
SZ.1780   Insects- four types of legs, honey bee, house fly, house modquito, spider

AMPHIBIANS

SZ.1877   Rana sp, frog, blood smear
SZ.1880   Frog uncleaved egg, c.s.
SZ.1881   Frog egg, two cells stadium, c.s.
SZ.1883   Frog egg, advanced cleavage c.s.
SZ.1885   Frog egg, blastula phase, c.s.
SZ.1887   Frog egg, early gastrula phase, c.s.
SZ.1889   Frog egg, advanced gastrula phase, c.s.

HOW TO ORDER INDIVIDUAL EUROSLIDES
- Minimum purchase quantity is 10 pieces of the same slide
- The individual slides always have to be ordered together with a box.
  Available is: plastic box PB.5181 (for 25 slides)

Individual EuroSlides
for Botany

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

ROOTS

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

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

STEMS

SB.2055   Zea mays, corn, stem, c.s.
SB.2060   Triticum aestivum, wheat, stem, c.s.
SB.2070   Helianthus, sunflower, young stem, c.s.
SB.2076   Tilia, lime tree, 1, 2 and 3 year stems on one slide, c.s.
SB.2095   Monocot/dicot stem, corn/pumpkin, c.s.
SB.2100   Pelargonium hortorum, geranium, stem, c.s.
SB.2105   Hibiscus, young stem, c.s.
SB.2115   Sambucus, elderberry or Morus Alba, mulberry, stem with 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
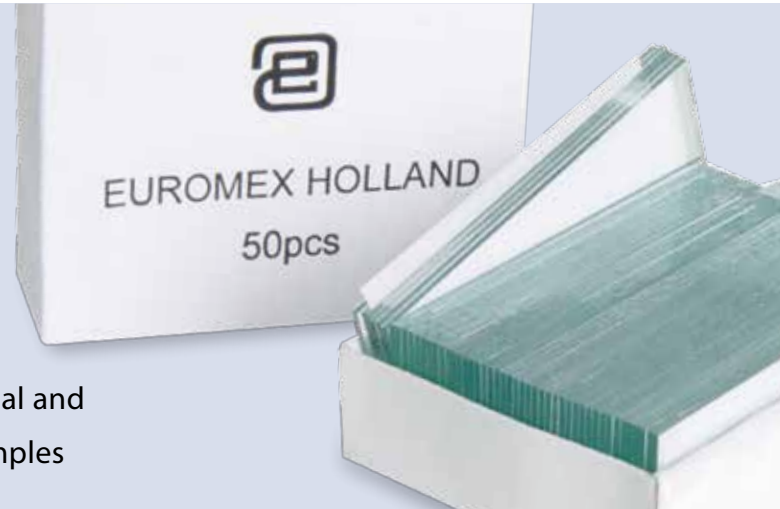SB.2374   Aspergillus, brown mold, w.m.

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

STAINS

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

Disposables

MICROSCOPE SLIDES AND COVER GLASSES

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

PB.5155 Microscope slides 76 x 26 mm white glass,
grinded edges. 50 pieces

PB.5157-W Microscope slides 76 x 26 mm, grounded,
White frosted side, 50 pieces

PB.5157-B Microscope slides 76 x 26 mm, grounded,
Blue frosted side, 50 pieces

PB.5160 Microscope slides 76 x 26 mm with concavity,
grinded edges. 10 pieces

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

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

PB.5170 Cover glasses Ø18 mm, thickness 0.13-0.17 mm.
100 pieces

MICROSCOPE SLIDE BOXES

PB.5181 Black plastic slide box for 25

PB.5180 Wooden slide box for 25 slides.
White interior with index

PB.5185 Black plastic slide box for 100 slides

MISCELLANEOUS ACCESSORIES

PB.5200 Staining trough for 10 slides

PB.5210 Fine pointed brush

PB.5245 Lens paper. 100 sheets

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

PB.5255 Immersion oil,
refractive index nD = 1.482. In bottle (25 ml)

PB.5265 Entellan, quick drying Canada balsam. In bottle (25 ml)

PB.5270 Xylol (bottle), lens cleaner, intermediate agent
for section slide preparation. In bottle (100 ml)

PB.5274 Isopropyl alcohol 99%. In bottle (200 ml)

PB.5277 Formalin 40%, fixing agent. In bottle (200 ml)

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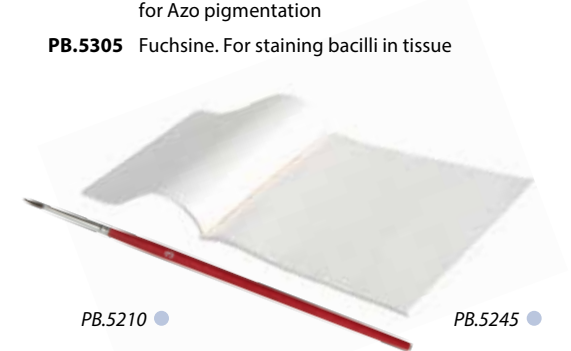
(DISSOLVED) STAINS

Supplied in 25 ml bottles

PB.5280 Azo carmine-G. Biological stains for animal tissues.
Also suitable for bacteria pigmentation

PB.5283 Eosin yellow. Stain for general overall-view coloring

PB.5286 Haematoxylin according to Ehrlich.
General purpose nuclear stain

PB.5289 Astra Blue. Stain for vegetal cells.
To be used in combination with safranin

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

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

PB.5297 Methylene Blue. Biological and bacteriological stain

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

PB.5305 Fuchsine. For staining bacilli in tissue

PB.5150

PB.5180

PB.5168 / PB.5170

PB.5275

PB.5280 / PB.5274

PB.5210

PB.5245

Other**Products**

Magnifiers
Optical instruments
USB microscopes

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

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

ACHROMAT
20X–20mm

MAGNIFIERS & MEASURING MICROSCOPES

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

Handheld magnifiers
and magnifiers with handles

PB.5020 Magnifier with handle 4x, lens Ø 50 mm and handle Ø 8 mm. Fits on PB.5022

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

PB.5022 Heavy stand with adjustable cross clamp, base Ø 70 mm. Weight 450 grams. For PB.5022 and PB.5021

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

● *PB.5026*

● *PB.5020*

● *PB.5021*

PB.5022 ●

FOLDING MAGNIFIERS

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

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

PB.5032 Achromatic magnifier 10x, triplet. Lens Ø 21 mm. Field of view 15 mm

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

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

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

● *PB.5032*

● *PB.5016*

FOLDING MAGNIFIERS
WHITE LED ILLUMINATION

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

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

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

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

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-LED*

● *PB.5034-LUV*

MAGNIFIERS & MEASURING MICROSCOPES

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

Magnifiers & measuring microscopes

TABLE MAGNIFIERS

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

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

PB.5043 Table magnifier, 4x magnification.
Plastic lens Ø 57 mm, field of view 55 mm

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

MISCELLANEOUS MAGNIFIERS

PB.5030 Dual sliding magnifier with 3x and 6x magnification.
Lens aperture 23 x 23 mm. Fields of view
50 x 50 mm and 25 x 25 mm. Plastic housing

PB.5049 Linen tester folding magnifier with 6x lens.
A 25 x 25 mm base with millimeter scale. Metal
casing lacquered in black. Supplied with plastic case

MEASURING MAGNIFIERS WITH RETICLE

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

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 3.6 mm

PB.5012 Measuring microscope 60x
with LED illumination. Field of view 1.75 mm

PB.5014 Measuring microscope 100x
with LED illumination. Field of view 1.1 mm

● PB.5039 /
PB.xxxx

● PB.5043 /
PB.5040

● PB.5030

● PB.5049

● PB.5044 /
PB.5048

● PB.5045 ●

● PB.5046 /
PB.5047

● PB.5008

Refracto**Meters**

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

HIGHLIGHTS

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

RD.6535

Handheld refractometers
Sugar concentration

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

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

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

Digital handheld refractometers
Sugar concentration in juices

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

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

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

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

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

Concentrations of grapes and fruit

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

Concentrations of sugar, nD indices (only for sugar)

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

REFRACTOMETERS

● 98.490

HIGHLIGHTS

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

● RF.5381

Abbe laboratory
refractometer
Substance indentification

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

Abbe refractometers are more accurate with an extended scale to measure concentrations of sugar and refractive indices. Capable of measuring all kinds of concentrations and identifying several types of substances

The Abbe refractometer can be connected to a water bath for measuring at a controlled temperature. During the use of this type of refractometer the use of a cold light source such as the LE.5209 is recommended
This Abbe table refractometer has scales for measurement of sugar concentrations and refractive indices. Delivered with carrying case, thermometer 0-50º Celsius, calibration plate and adjusting tool

Substance indentification of sugar concentration

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

Gemological
refractometer
Gemstones

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

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

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

Identification of precious stones

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

REFRACTOMETERS

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

Handheld Refractometers

Alcohol and alcohol-sugar solutions

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

Sugar concentration, % alcohol and alcohol/sugar solutions

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

Sugar and salt

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

Substance identification of sugar concentration

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

Substance identification of sugar concentration

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

Battery acid and Coolant

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

For testing water-soluble coolants and battery acid solutions.

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

Clinical applications

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

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

MODEL	Scales	Accuracy	Remarks	ATC	Analog
RF.5612	0-12 g/dl	0.2 g/dl	Proteins in Serum	•	•
	1-1.05 sg	0.002 sg	Urine specific gravity	•	•
	1.333-1.360 RI	0.0005 RI		•	•

MODEL	Scales	Accuracy	Remarks	ATC	Digital
RD.5712[1]	0-12 g/dl	0.2 g/dl	Proteins in Serum	•	•
	1-1.05 sg	0.001 sg	Urine specific gravity	•	•
	1.33-1.39 RL	0.0001 RL		•	•

[1] With this model the value can be read from a digital display

ACCESSORIES AND SPARE PARTS

RF.5295 Test slide 78.8 Brix for calibration of RF.5190

RF.5384 5 ml immersion nD 1.79 liquid for RF.5381

LE.5209 20 W 12 V cold light source with single fiber light conductor (for Abbe refractometer 98.490)

SL.5208 Spare 20 W 12 V halogen bulb

98.492 Thermometer 0-50° C (for Abbe refractometer 98.490)

98.496 Calibration slide nD 1.5163 (for Abbe refractometer 98.490)

Polarimeters & Spectroscopes

Polarimeter

● 99.400

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

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

Spectroscopes are used to visualize the light spectrum of light sources

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

Polar scale, range ± 180° with 0.1° readings. Supplied with observation tubes of 100 mm and 200 mm. Bright light measuring field permits reading with accuracy of 0.1° with aid of Vernier

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

HIGHLIGHTS

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

ACCESSORIES FOR 99.400

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

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

SPECTROSCOPES

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

Euromex handheld spectroscope
SP.5200

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

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

● SP.5200

MODEL	Dimensions	Weight (grams)	Adjustable slit	Comparison prism	Angle dispersion	Linear dispersion	Wavelength scale	589 nm indication	With 5 glass cuvettes
SP.5200	h50xl115xp23	250	0-1 mm	•	C-F 7°	60 mm	•	•	•

Euromex handheld spectroscope
SP.5155

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

- Comparison prism
- Mirror
- Five glass cuvettes

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

SP.5155 ●

MODEL	Dimensions	Weight (grams)	Adjustable slit	Comparison prism	Angle dispersion	Linear dispersion	Wavelength scale	589 nm indication	With 5 glass cuvettes
SP.5155	h45x l105xd23	125	0-1 mm	•	C-F 7°	60 mm			•

Handheld spectroscope
SP.5150

Handheld spectroscope with adjustable slit from 0 tot 1 mm

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

SP.5150 ●

MODEL	Dimensions	Weight (grams)	Adjustable slit	Comparison prism	Angle dispersion	Linear dispersion	Wavelength scale	589 nm indication	With 5 glass cuvettes
SP.5150	90 x18 mm Ø	92	0-1 mm		C-F 7°	60 mm			

Handheld spectroscope
SP.5100

Handheld spectroscope with fixed slit

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

SP.5100 ●

MODEL	Dimensions	Weight (grams)	Adjustable slit	Comparison prism	Angle dispersion	Linear dispersion	Wavelength scale	589 nm indication	With 5 glass cuvettes
SP.5100	90 x18 mm Ø	72			C-F 6°	40 mm			

PATHOLOGY SCANNER

PS.1001

PathoScan
10,000 DPI slide scanner

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

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

The users now have the ability to upload the scanned images onto a network for sharing and collaboration among colleagues, resolving in better and faster diagnostics. The scanned slides can also be used for education purposes. Digitized slides also can be analyzed using the specialists own dedicated software. The software can be used to automate the manual counting of structures, or for classifying the condition of tissue such as is used for grading tumors

PATHOVIEW SCANNING SOFTWARE

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

PS.1001	
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 two slides included
- Polarization attachment available

PS.1001 / PS.3001

SPECIFICATIONS

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

MODELS

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

USB MICROSCOPES

Q-scope®

Discover the new world of handheld digital microscopy

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

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

QS.MS10
with QS.20200-P

GENERAL APPLICATIONS

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

SPECIAL APPLICATIONS

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

Q-SCOPE® STANDS

DESIGNED FOR MANY APPLICATIONS

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

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

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

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

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

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

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

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

Q-SCOPE® BASIC STANDS

MODELS	QS.MS10	QS.MS20	QS.CS10
Stand	Metal Positioning Stand with easy 3D positioner	Metal Gooseneck stand with fixed positioner	Cradle Stand
	Stable height adjustable stand with 3D positioner for accurate microscope control, ergonomic stable design	Ergonomic hands-free operation. Large WD and positioning options. Designed for maximum flexibility, ergonomic stable design	Transparent cradle for easy movement across flat surfaces and fast inspection at a fixed working distance
Applications	All	All	Surface inspection such as printing and fabrics
Dimensions	(w) 146 x (l) 176 x(h) 160 mm	(w) 329 x (l) 138 x(h) 265 mm	(d) 98 x(h) 50 mm
Working distance	0 - 105 mm	0 - 120 mm	15 mm
Weight	620 grams	580 grams	35 grams
Compatible with	All Q-scope models	All Q-scope models	All Q-scope models
Package content	Stand, 3D positioner holder, wrench, cable guiding clamp, user manual	Stand, fixed positioner holder, wrench, cable guiding clamp, user manual	Stand, holder, user manual

Q-SCOPE® PROFESSIONAL STANDS

MODELS	QS.MS40-B	QS.MS40-D	QS.MS45-B
stand	Metal Boom-arm stand with 3D positioner	Metal Boom-arm Stand with fine focus adjustment 3D positioner	Metal Articulated-arm Stand with 3D positioner
	Extra stable and height adjustable stand with 3D positioner for accurate control, suitable for large objects	Extra stable and height adjustable stand with fine focus adjustment, and fixed positioner for precise control in height, for large objects	Extra stable and height adjustable articulated stand with 3D positioner for accurate control, for large objects
Applications	all	all	all
Dimensions	(w) 220 x (l) 250 x(h) 287 mm	(w) 220 x (l) 250 x(h) 287 mm	(w) 220 x (l) 250 x(h) 287 mm
WD	0 - 230 mm	0 - 235 mm	0 - 230 mm
Working range (X/Y)	190/190 mm	45/137 mm	335/335 mm
Focusing range	-	44 mm	-
Weight	1600 grams	1700 grams	1800 grams
Compatible with	all Q-scope models	all Q-scope models	all Q-scope models
Package content	Stand, fixed position holder, wrench, cable guiding clamp, user manual	Stand, fine focus unit, fixed position holder, wrench, cable guiding clamp, user manual	Stand, fixed positioner holder, wrench, cable guiding clamp, user manual

Choose the right
Euromex**Microscope**

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, bScope®, 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	bScope® (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 such as water, atmosphere, ecosystems, soil and pollution control	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• Food and beverages	Quality and safety controls, before, during and after the production of food and beverages	BioBlue.Lab, bScope®, iScope®, Oxion
• Forensics	Analysis of scientific evidence. Toxicology, fingerprints, Forensic anthropology and archeology, forensic botany and entomology	BioBlue.Lab, bScope®, bScope® (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

INDUSTRY	FIELD OF APPLICATION	RECOMMENDED MODELS
• 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), bScope® (material), StereoBlue, NexiusZoom, DZ series
• Horticulture	Selective breeding of plants and fruit for production of food	BioBlue.Lab, bScope®, 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), bScope® (material), StereoBlue, NexiusZoom, DZ series
• Metallurgy	Manufacturing and quality inspection of metallic elements, intermetallic compounds and alloys	iScope® (material), Oxion (material), Oxion Inverso (material), bScope® (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), bScope® (material), StereoBlue, NexiusZoom, DZ series
• Paper industry	Production of paper related products. Quality inspection	iScope® (material), Oxion (material), bScope® (material), StereoBlue, NexiusZoom, DZ series
• Petrochemical	Research and transformation of crude oil and natural gas	iScope® (material), Oxion (material), bScope® (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
• Pharmaceutics	Development and production of drugs for medication. Quality assurance and inspection of produced products	iScope® (polarization), StereoBlue, NexiusZoom, DZ series
• Plastics	Development and production of plastics and plastic based compounds. Quality assurance and inspection	iScope® (material), Oxion (material), Oxion Inverso (material), bScope® (material), StereoBlue, NexiusZoom, DZ series
• Printing industry	Production of relief printing, lithography	iScope® (material), Oxion (material), bScope® (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, bScope®, 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

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Euromex

Since 1966!

**MICROSCOPE
COLLECTION**
2018

Designed in Holland

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