

PART I MICROSCOPES FOR EDUCATION

PART 2 MICROSCOPES FOR LIFE SCIENC

PART 3 MICROSCOPES FOR INDUSTRY



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euromex **MICROSCOPE COLLECTION** 2020

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OTHER OPTICAL PRODUCTS

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euromex

INDUSTRY | STEREO MICROSCOPES NexiusZoom, -EVO and -ESD • NexiusZoom for Gemology StereoBlue • DZ series • Z series • BE-50 series • P series

INDUSTRY | MATERIALS SCIENCE MICROSCOPES iScope (materials & polarization) • bScope Delphi-X Observer • Oxion • Oxion Inverso

INDUSTRY | DIGITAL SOLUTIONS Digital microscopes • MacroZoom • WiFi camera • USB cameras HD cameras • Cooled cameras • Tablet cameras • Software • Adapters

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

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

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

The corporate office is based in Arnhem, The Netherlands. A facility with a 2,000 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 by is a subsidiary of Euromex Optics Group bv, a group holding company with active subsidiaries in the field of optical instruments and high level optical and opto-mechanical components

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

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

choose the right microscope

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

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

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SEE PAGE 406

industry

stereo microscopes





Stereo microscopes of 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

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nexiuszoom

the new standard in stereo microscopy

The NexiusZoom stereo microscopes of 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 for observing larger objects





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
- **Ergonomic stands**
- 3 W LED illuminations
- Configurations up to 220x magnification
- ESD safe models available
- 10 Years warranty



SPECIFICATIONS

EYEPIECES

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

HEAD

Binocular or trinocular heads with 45° inclined tubes. Both eyepieces with ± 5 diopter adjustments. Interpupillary distance adjustable between 54 mm and 75 mm. Trinocular head is supplied with a fixed light path beam splitter. The NexiusZoom EVO models are now equipped with click-stops

OBJECTIVES

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

For extra working distances the following auxiliary lenses are available for both the standard NexiusZoom and NexiusZoom EVO: 0.3x, 0.4x, 0.5x, 0.75x, 1.5x and 2.0x. For fields of view and working distances, see table magnifications

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



NZ.1903-S

NZ.1903-P

NZ.1903-U ESD

















POLARIZATION

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

STAND

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



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 electronic 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

PACKAGE CONTENT

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

Electrostatic discharge (ESD)

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



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

MODELS	Bino	Trino	Pillar stand	Rack & pinion stand	Universal stand	Boom stand on heavy base plate	Boom stand on table clamp	Articulated arm stand on table clamp	Articulated arm stand on heavy base plate	Gooseneck dual LED	Mirror LED	Weight (kg)
NZ.1902-P	•		•									5.0
NZ.1902-PG	•		•							•		5.1
NZ.1902-M	•		•								•	4.9
NZ.1902-S	•			•								4.9
NZ.1902-U	•				•							15.6
NZ.1902-B	•					•						22.1
NZ.1902-BC	•						•					10.5
NZ.1902-A	•							•				8.6
NZ.1902-AP	•								•			20.7
NZ.1903-P		•	•									5.2
NZ.1903-PG		•	•							•		5.3
NZ.1903-M		•	•								•	5.1
NZ.1903-S		•		•								5.1
NZ.1903-U		•			•							15.7
NZ.1903-B		•				•						22.2
NZ.1903-BC		•					•					10.6
NZ.1903-A		•						•				8.7
NZ.1903-AP									•			20.8

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

MODELS	Bino	Trino	Pillar stand	Rack & pinion stand	Universal stand	Boom stand on heavy base plate	Boom stand on table clamp	Articulated arm stand on table clamp	Articulated arm stand on heavy base plate	Gooseneck dual LED	Mirror LED	Weight (kg)
NZ.1702-P												5.0
NZ.1702-PG										•		5.1
NZ.1702-M			•								•	4.9
NZ.1702-S				•								4.9
IZ.1702-U	•				•							15.6
NZ.1702-B						•						22.1
IZ.1702-BC	•						•					10.5
NZ.1702-A	•							•				8.6
NZ.1702-AP	•								•			20.7
NZ.1703-P		•	•									5.2
NZ.1703-PG		•	•							•		5.3
NZ.1703-M		•	•								•	5.1
NZ.1703-S		•		•								5.1
NZ.1703-U		•			•							15.7
NZ.1703-B		•				•						22.2
NZ.1703-BC		•					•					10.6
NZ.1703-A		•						•				8.7
NZ.1703-AP		•							•			20.8



ESD SAFE

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

MAGNIFICATIONS

NexiusZoom and NexiusZoom ESD: working distance and field of view with standard high wide field (HWF) 10x / 22 eyepieces

Zoom indication		ry lens 287 mm		ry lens 220 mm		ary lens 183 mm		ary lens O 105 mm		auxiliary 110 mm		ary lens O 53 mm		ry lens 34 mm
	Total mag.	F.o.v. in mm	Total mag.	F.o.v. in mm	Total mag.	F.o.v. in mm	Total mag.	F.o.v. in mm	Total mag.	F.o.v. in mm	Total mag.	F.o.v. in mm	Total mag.	F.o.v. in mm
0.67	2.0	109.5	2.7	82.1	3.35	65.7	5.0	43.8	6.7	32.8	10.1	21.9	13.4	16.4
0.7	2.1	104.8	2.8	78.6	3.5	62.9	5.3	41.9	7.0	31.4	10.5	21.0	14.0	15.7
0.8	2.4	91.7	3.2	68.8	4.0	55.0	6.0	36.7	8.0	27.5	12.0	18.3	16.0	13.8
1.0	3.0	73.3	4.0	55.0	5.0	44.0	7.5	29.3	10.0	22.0	15.0	14.7	20.0	11.0
1.5	4.5	48.9	6.0	36.7	7.5	29.3	11.3	19.6	15.0	14.7	22.5	9.8	30.0	7.3
2.0	6.0	36.7	8.0	27.5	10.0	22.0	15.0	14.7	20.0	11.0	30.0	7.3	40.0	5.5
3.0	9.0	24.4	12.0	18.3	15.0	14.7	22.5	9.8	30.0	7.3	45.0	4.9	60.0	3.7
4.0	12.0	18.3	16.0	13.8	20.0	11.0	30.0	7.3	40.0	5.5	60.0	3.7	80.0	2.8
4.5	13.5	16.3	18.0	12.2	22.5	9.8	33.8	6.5	45.0	4.9	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		ary lens 287 mm		ary lens 220 mm		ary lens 183 mm		ary lens O 105 mm		auxiliary 110 mm		ary lens O 53 mm		ary lens 34 mm
	Total mag.	F.o.v. in mm	Total mag.	F.o.v. in mm	Total mag.	F.o.v. in mm	Total mag.	F.o.v. in mm						
0.65	1.95	117.9	2.6	88.5	3.25	70.8	4.9	47.2	6.5	35.4	9.8	23.6	13.0	17.7
1.0	3.0	76.7	4.0	57.5	5.0	46.0	7.5	30.7	10.0	23.0	15.0	15.3	20.0	11.5
1.5	4.5	51.1	6.0	38.3	7.5	30.7	11.3	20.4	15.0	15.3	22.5	10.2	30.0	7.7
2.0	6.0	38.3	8.0	28.8	10.0	23.0	15.0	15.3	20.0	11.5	30.0	7.7	40.0	5.8
2.5	7.5	30.7	10.0	23.0	12.5	18.4	18.8	12.3	25.0	9.2	37.5	6.1	50.0	4.6
3.0	9.0	25.6	12.0	19.2	15.0	15.3	22.5	10.2	30.0	7.7	45.0	5.1	60.0	3.8
3.5	10.5	21.9	14.0	16.4	17.5	13.1	26.3	8.8	35.0	6.6	52.5	4.4	70.0	3.3
4.0	12.0	19.2	16.0	14.4	20.0	11.5	30.0	7.7	40.0	5.8	60.0	3.8	80.0	29
4.5	13.5	17.0	18.0	12.8	22.5	10.2	33.8	6.8	45.0	5.1	67.5	3.4	90.0	2.6
5.0	15.0	15.3	20.0	11.5	25.0	9.2	37.5	6.1	50.0	4.6	75.0	3.1	100.0	2.3
5.5	16.5	13.9	22.0	10.5	27.5	8.4	41.3	5.6	55.0	4.2	82.5	2.8	110.0	2.1

WD = working distance, FoV = Field of view, Total mag. = total magnification



ACCESSORIES AND SPARE PARTS

HEADS & EYEPIECES

NZ.5302	NexiusZoom binocular head with eyepieces
NZ.5303	NexiusZoom trinocular head with eyepieces
NZ.6010	Pair of HWF 10x / 22 mm eyepieces
NZ.6010-C	HWF 10x/22 mm eyepiece only with crosshairs
NZ.6010-CM	HWF 10x/22 mm eyepiece only with 10/100
	micrometer and crosshairs
NZ.6015	Pair of HWF 15x / 16 mm eyepieces
NZ.6020	Pair of HWF 20x / 12 mm eyepieces
NZ.6110	HWF 10x / 22 mm eyepiece with micrometer
NZ.6210	Pair of HWF 10x/23 mm eyepieces for NZ EVO
NZ.6210-C	HWF 10x/22 mm eyepiece only with crosshairs
	for NZ EVO
NZ.6210-CM	HWF 10x/22 mm eyepiece only with 10/100
	micrometer and crosshairs for NZ EVO
NZ.6099	Pair of eyecups



AUXILIARY LENSES

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

NZ.8907	Additional 0.75x lens for NZ. WD 105 mm
NZ.8915	Additional 1.5x lens for NZ. WD 53 mm
NZ.8920	Additional 2.0 lens for NZ. WD 34 mm.
	Not suitable for S stands

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

LE.1973

LE.5210

LE.5211

LE.5214

LE.5215

LE.5222

Ring illuminator with 144 LEDs with adjustable

light intensity. External power supply 100-240

Brightness of 23,000 Lux at 100 mm distance

stereo head with diameter from 25 to 61 mm

Euromex cold light illuminator, 150 W halogen.

Euromex cold light illuminator EK-1, 100 W. 110 V and 230 V models available

Dual arm light conductor, gooseneck selfsustaining, 50 cm long, 4 mm diameter core

Triple arm light conductor, gooseneck selfsustaining, 50 cm long, 4 mm diameter core

Focusing head suitable for focusing lens LE.5214

110 V and 230 V models available LE.5211-LED Euromex cold light illuminator LED, 30 W high

and LE.5215. Needs LE.5224

power LED

Vac / 12 Vdc (50/60 Hz). With segment controller.

and color temperature of 6,500 K. Mounting for

HEAD HOLDERS

NZ = NexiusZoom

NZ.9090

NZ.9081	NZ head holder 76 mm for NZ and black universal					
	stand NZ.9025/NZ.9027					
NZ.9090	NZ head holder for NZ.9020/9030/9032					
	pillar stands					
NZ.9095	NZ head holder with fine and coarse adjustment					
	for NZ.9020/9030/9032 pillar stands. Only					
	available with new microscopes					
WD = Working distance						

transmitted LED illumination

(for NZ.9020, NZ. 9030 and NZ. 9032)

NexiusZoom head holder

ILLUMII	NATION					
LE.5207	Multi-functional dual 3 W LED adjustable light	LE.5224	Aspherical focusing lens for mounting in LE.5222			
	source. Equipped with two flexible gooseneck arms with LED illuminator	More illumir	nation options, see chapter 11			
LE.5212	Euromex illumination station with two	POLARIZATION ATTACHMENTS				
	independently controlled goosenecks, a ring light and a transmitted stage illuminator	NZ.9520	Polarization kit for NexiusZoom: 360° rotatable circular stage with built-in polarization filter			
LE.5260	Interchangeable high power (standard) white		(NZ.9524) + analyzer in mount to be screwed			
	6,500K light guide for NZ.9018/LE.5207/LE.5212,		under the head (NZ.9525). Not suitable with			
	1 pc		auxiliary lenses			
LE.5261	Interchangeable high power 365 nm flexible	NZ.9524	360° rotatable circular stage with built-in			
	arm for NZ.9018/LE.5207/LE.5212, 1 pc		polarization filter for NexiusZoom			
LE.5262	Interchangeable high power 395 nm flexible	NZ.9525	360° rotatable analyzer in mount to be screwed			
	arm for NZ.9018/LE.5207/LE.5212, 1 pc		under the head of NexiusZoom. Not suitable for			
LE.5263	Interchangeable high power 420 nm flexible are		use in combination with auxiliary lenses			
	for NZ.9018/LE.5207/LE.5212, 1 pc					
LE.1974	Ring illuminator with 72 LEDs with adjustable	DARKFI	ELD ATTACHMENT			
	light intensity. External power supply 110-240	NZ.9040	Darkfield attachment (for -S and -P stands)			
	Vac / 12 Vdc (50/60 Hz). With segment					
	controller. Brightness of 20,000 Lux at 100 mm	STAGES				
	distance and color temperature of 6,500 K.	NZ.9505	Mechanical 180 x 155 mm X-Y stage with 75 x			
	Mounting for stereo head with diameter from		55 mm translation and transparent glass plate			
	25 to 61 mm	AE.5168-N	Z Heating stage with PID controller up to 50°C.			

CAMERA ACCESSORIES

NZ.9850	C-mount adapter with 0.5x lens for 1/2 inch			
	cameras			
AE.5130	Universal SLR adapter with built-in 2x lens for			
	standard 23.2 mm tube. Needs T2 adapter			
AE.5025	T2 adapter for Nikon D SLR digital camera			
AE.5040	T2 adapter for Canon EOS SLR digital camera			
Other T2 adapters on request				

Only with the purchase of a new microscope

MISCELLANEOUS				
NZ.8950	Protection glass for NexiusZoom head			
NZ.9570 Pair of object clamps for stage				
NZ.9572	Adjustable GEM object clamp for -P, -PL			
	and -S stands			
NZ.9950	Standard opaque stage plate			

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NZ.9958 Standard glass object plate, opaque NZ.9983-R 3 W LED replacement unit for NZ,

incident illumination

NZ.9983 3 W LED replacement unit for NZ,

transmitted illumination

AE.1112 Object micrometer 50 mm (divided in

NZ.9005

500 parts on glass slide 76 x 26 mm)

NZ.9000

DISPOSABLES

PB.5245 Lens cleaning paper, 100 sheets per pack

PB.5274 Isopropyl alcohol 99%, 200 ml

PB.5275 Cleaning kit: lens fluid, lint free lens tissue/

paper, brush, air blower, cotton swabs

PB.5276 Microscope maintenance and servicing kit,

16pcs: cleaning brush, 6 pcs screwdriver set, air blower, 3 pcs Allen key 1.5, 2, 2.5 mm, lens cleaning fluid 20 ml, cleaning cloth 140 x 140 mm, 100 pcs lens tissue sheets,

tube of maintenance grease, 10 ml bottle of oil,

packed in a toolbox

The LE.5212 in two different configurations

how to set up a

stereo microscope

will help get the best out of your microscope

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



Rotate the focus adjustment knob to bring the specimen into focus



Turn the zoom adjustment knob to the lowest magnification



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

Put a specimen on the stage plate



Turn the zoom adjustment knob to the highest magnification



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



Turn the zoom adjustment knob to the lowest magnification



Rotate the focus adjustment knob to bring the specimen into focus



PLEASE NOTE

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

If not, please repeat steps 3 to 8







The specialized backwards tilting stand of the NexiusZoom and NexiusZoom EVO stereo microscopes for gemology applications offers 30 W 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.1903-GEML

NZ.1902-GEML

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



















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





SPECIFICATIONS

EYEPIECES

NZ.1902 with backwards tilting stand

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 \pm 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. 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 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

Ergonomic 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 - which can be placed either on the right or on the left side - iris diaphragm and incident illumination

ILLUMINATION

30 Watt halogen transmitted illumination, adjustable intensity. 1 Watt LED, adjustable intensity, or 7 Watt fluorescent incident illumination, intensity not adjustable Both illuminators can be used simultaneously

PACKAGE CONTENT

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

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	Without auxiliary lens WD 110 mm		Auxiliary lens 0.75x WD 105 mm		Auxiliary WD 53		Auxiliary lens 2x WD 34 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	,		Auxiliary lens 0.75x WD 105 mm		Auxiliary lens 1.5x WD 53 mm		Auxiliary lens 2x WD 34 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	29
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

ACCESSORIES AND SPARE PARTS

HEADS & EYEPIECES

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

AUXILIARY LENSES

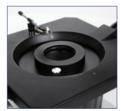
NZ.8907	Auxiliary lens 0.75x. WD 105 mm]
NZ.8915	Auxiliary lens 1.5x. WD 53 mm
NZ.8920	Auxiliary lens 2.0x. WD 34 mm
	Not suitable for NZ.1902-S and NZ.1903-S

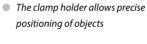
CAMERA ACCESSORIES

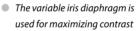
	NZ.9850	C-mount adapter with 0.5x lens for 1/2" cameras			
		Suitable for trinocular models			
5	AE.5130	Universal SLR camera adapter with 2x projection			
5		lens for 23.2 mm tubes. Needs T2 adapter			
	AE.5020	T2 adapter for Nikon D digital SLR cameras			
	AE.5040	T2 adapter for Canon EOS digital SLR cameras			
	Other T2 adapters on request				

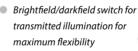
MISCELLANEOUS

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





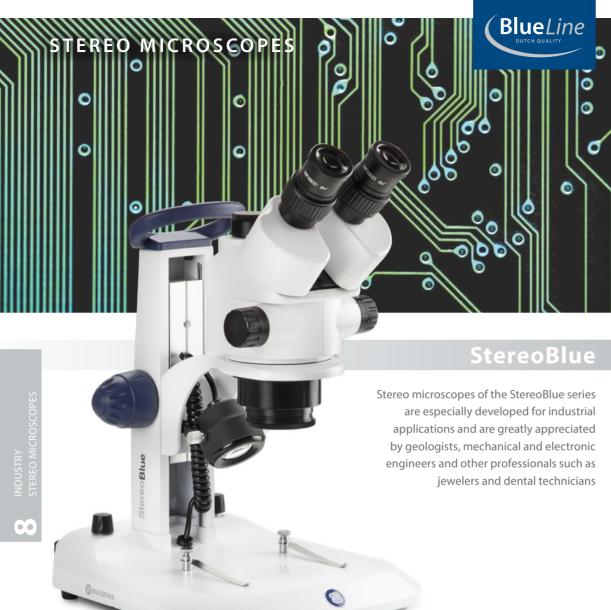












SB.1903

330 (h) x 220 (w) x 266 mm (d) | 4.4 kg SB.1903-P

SB.1302/SB.1402

SB.1302-P/SB.1402-P

299 (h) x 220 (w) x 266 mm (d) | 4.7 kg

HIGHLIGHTS

- Binocular and trinocular models
- WF 10x/21 mm eyepieces
- Dual 1x/3x or 2x/4x magnification objectives
- Zoom stereo 0.7x to 4.5x objective
- **Ergonomic stands**
- Available in ergonomic rack & pinion, pillar, universal and boom stands
- 3 W LED illuminators
- Also available with batteries
- **Built-in ring light**
- **Ergonomic carrying grip**
- 5 Years warranty



SPECIFICATIONS

EYEPIECES

Pair of WF 10x/21 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
- Trinocular head is supplied with a fixed light path beam splitter

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

DUAL MAGNIFICATION OBJECTIVES

- Nosepiece with dual 1x/3x or 2x/4x revolving objectives
- Magnifications 10x/30x or 20x/40x
- Field of view 21 mm/6.9 mm or 10.5 mm/5.25 mm
- · Working distance 100 mm

ZOOM OBJECTIVE

- Zoom stereo 0.7x to 4.5x parfocal objective
- Magnification from 7x to 45x
- · Field of view 29.9 mm to 4.6 mm
- · Working distance 100 mm

STAND

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

The ergonomic universal single arm stand is ideal for viewing large samples or working under the microscope. Comes 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. The stands are alloy metal casted with hardened coating

More illumination options see chapter 11 (Accessories)

SB.1903

ILLUMINATION

3 W transmitted and incident LED illuminators which can be used simultaneously. Model SB.3903 and SB.3903-P are equipped with 3 W transmitted and incident LED illuminators and a built-in 30 LED ring light incident illuminator. The light intensities can be adjusted separately. Also available with batteries (add "B" after article number, e.g. SB.1302-PB)

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.



MODELS	Bino	Trino	1x/3x objective	2x/4x objective	0.7 - 4.5x zoom	Rack & pinion stand 3 W LED	Pillar stand 3 W LED	Universal stand	Boom stand on heavy base plate	30 LED right light	Weight (kg)
SB.1302	•		•			•					3.3
SB.1302-P	•		•				•				4.2
SB.1402	•			•		•					3.3
SB.1402-P	•			•			•				4.2
SB.1902	•				•	•					3.6
SB.1902-P	•				•		•				4.4
SB.1902-U	•				•			•			15.4
SB.1902-B	•				•				•		21.9
SB.1903		•			•	•					3.7
SB.1903-P		•			•		•				4.5
SB.1903-U		•			•			•			15.5
SB.1903-B		•			•				•		22.0
SB.3903		•			•	•				•	3.7
SB.3903-P		•			•		•			•	4.5

ACCESSORIES AND SPARE PARTS

EYEPIECES

SB.6210	Pair of HWF 10x/21 mm eyepieces	SB.9090	Head holder for SB.9020
SB.6210-C	WF 10X/21 mm eyepiece with crosshairs	SB.9040	Darkfield attachment,
SB.6210-M	WF 10X/21 mm eyepiece with micrometer scale		only for –S and –P models
SB.6015	Pair of HWF 15x/15 mm eyepieces	SB.9570	Pair of object clamps for stage
SB.6015-C	WF 15X/15 mm eyepiece with crosshairs	SB.9952	Stage plate transparent, Ø 60 mm
SB.6015-M	WF 15X/15 mm eyepiece with micrometer scale	SB.9956	Stage plate black/white, Ø 60 mm
SB.6020	Pair of HWF 20x/10 mm eyepieces	SB.9983-R	3 W LED replacement unit, incident illumination
SB.6020-C	WF 20/10 mm eyepiece with crosshairs	SB.9983	3 W LED replacement unit, transmitted
SB.6020-M	WF 20/10 mm eyepiece with micrometer scale		illumination
SB.6099	Pair of eyecups	AE.1112	Micrometer 76 x 26 mm slide, 50 mm/50 divisions

AUXILIARY LENSES

SB.8915

SB.8903	Auxiliary 0.3x lens for zoom models, working	SB.9850	C-mount adapter with 0.5x lens for 1/2" cameras.
	distance 287 mm. Only suitable for boom and		Only for trinocular models
	articulated stands	AE.5130	Universal SLR camera adapter with 2x projection
SB.8905	Auxiliary 0.5x lens for zoom models, working		lens for 23.2 mm tubes. Needs T2 adapter
	distance 179 mm. Only suitable for SB.1902-P,	AE.5025	T2 adapter for Nikon D digital SLR cameras
	SB.1903-P, SB.1902-U, SB.1903-U, SB.1902-B and	AE.5040	T2 adapter for Canon EOS digital SLR cameras
	SB.1903-B	Other T2 ac	dapters on request
SB.8907	Auxiliary 0.75x lens for zoom models working		
	distance 105 mm	DISPOS	SABLES

PB.5245 Lens cleaning paper, 100 sheets per pack

CAMERA ACCESSORIES

1 0.32-73	Lens cicaming paper, 100 sneets 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

POLARIZATION ATTACHMENT

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

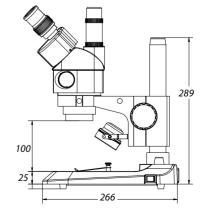
to be screwed under the head

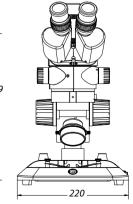
Auxiliary 1.5x lens for zoom models working

distance 53 mm. Not suitable for SB.39xx

MISCELLANEOUS

SB.8950	Protection glass window
SB.9020	Universal single-arm stand without
	head holder and without illumination
SB.9030	Universal double-arm stand without
	head holder and without illumination





DZ series STEREO MICROSCOPES

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.4010 and DZ.5040

DZ.1100 / DZ.1600 / DZ.1800

305 (h) x 330 (w) x 285 mm (d) | 6.0 kg DZ.1105 / DZ.1605 / DZ.1805















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
- Click-stops

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. Other plan apochromatic common main objectives 0.5x (working distance 126 mm) and 2x (WD 33 mm) are also available

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

STAND

Large ergonomic stand with Ø 100 mm object plate and 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



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

STANDARD CONFIGURATIONS

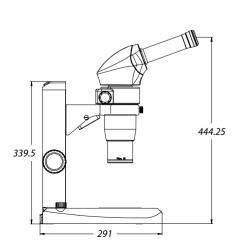
MODELS	Binocular 20° head	Binocular Ergo 0 to 35° tilting	Magnifications from 8 to 50x	Magnifications from 8 to 64x	Magnifications from 8 to 80x
DZ.1100		•			•
DZ.1105	•				•
DZ.1800		•		•	
DZ.1805	•			•	
DZ.1600		•	•		
DZ.1605	•		•		

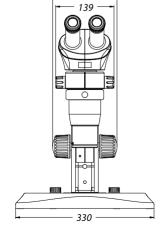
All equipped with EWF 10x/22 mm eyepieces

MAGNIFICATIONS AND FIELDS OF VIEW FOR STANDARD CONFIGURATIONS

			0.5x Objective WD 126 mm		1.0x Objective WD 78 mm		2.0x Objective WD 33 mm	
MODELS		Zoom indication	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
	92	1.5x	7.5x	29.3	15x	14.6	30x	7.3
	DZ1605	2.0x	10x	22	20x	11	40x	5.5
92		3.0x	15x	14.6	30x	7.3	60x	3.6
Z18	DZ1600/	4.0x	20x	11	40x	5.5	80x	2.7
0/D	DZ	5.0x	25x	8.8	50x	4.4	100x	2.2
/ DZ1105 DZ1800 / DZ1805		6.0x	30x	7.3	60x	3.6	120x	1.8
DZ1100/DZ1105		6.4x	32x	6.8	64x	3.4	128x	1.7
9		7.0x	35x	6.3	70x	3.1	140x	1.5
DZ		8.0x	40x	5.5	80x	2.75	160x	1.4

All equipped with EWF 10x/22 mm eyepieces





BUILD YOUR OWN MICROSCOPE

A customized DZ series stereo microscope can be configured to customer's specifications by choosing one of the three central zoom units DZ.0630, DZ.0800 or DZ.1000 and adding the necessary components for the application. 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	DZ.4020	Plan apochromatic common main objective
	from 8 to 50 times		2.0x. WD 33 mm
DZ.0800	Central zoom unit 1:8 unit with magnifications	All optics ar	re anti-fungus treated and anti-reflection coated fo
	from 8 to 64 times	maximum l	ight throughput
DZ.1000	Central zoom unit 1:10 unit with magnifications		

HEADS

IILAUS	
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

from 8 to 80 times

EYEPIECES

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



IRIS DIAPHRAGMS

Double iris diaphragms for increased depth of field

OBJECTIVES

DZ.4003	Plan common main objective 0.3x. WD 276 m
DZ.4005	Plan apochromatic common main objective
	0.5x. WD 126 mm
DZ.4010	Plan apochromatic common main objective

1.0x. WD 78 mm

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		

TECHNICAL FACTS

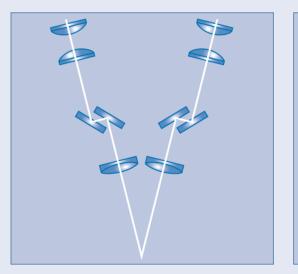
about

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; it is a system that became the workhouse for biological dissection in the 20th century. Much later, in 1957, a stereo zoom microscope with a common main objective was introduced in the United States by the American Optical Company

greenough

principle

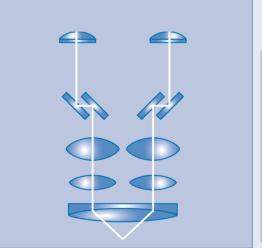


Two optical trains with their optical axes under a small angle generate two images of the object

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

common main objective (CMO)

principle



Two parallel optical trains share a common main objective and generate two images under a small angle

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

ACCESSORIES/SPARE PARTS

Polarizer, 360° rotatable, to be mounted on

common main objectives of DZ series

Polarizer, 360° rotatable, to be placed on

Photo port attachment with one 23.2 mm tube

Photo port attachment with two 23.2 mm tubes

Universal SLR camera adapter with 2x projection

C-mount 1x objective for insertion into

lens for 23.2 mm tubes. Needs T2 adapter

T2 adapter for Nikon D digital SLR cameras

T2 adapter for Canon EOS digital SLR cameras

photo port attachments

POLARIZATION ATTACHMENTS Filter cube with GFP-B band-pass filter set for DZ.9045

DZ.9047

DZ.9005

DZ.9007

DZ.9013

AE.5130

AE.5025

AE.5040

the stage

CAMERA ACCESSORIES

blue excitation, EX 460-500, DM 505, EM 510-560

DZ.9061 Filter cube with GFP-L long-pass filter set for blue

excitation, EX 460-500, DM 505, EM 510

DZ.9049 Empty filter cube

DZ.9060

Other fluorescence filters available on request

customized configuration model DZ.0800, 2x DZ.3010, DZ.2025, DZ.9005, DZ.9010, DZ.4010 and DZ.5040



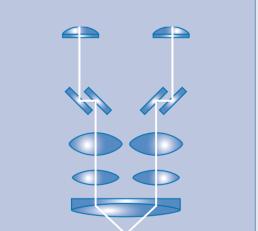
MISCELLANEOUS

Other T2 adapters on request

MISCEL	MISCELLANEOUS		
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		
AE.1112	Micrometer slide, 50 mm/50 divisions		
AE.1900	Glass object plate, Ø 100mm		
AE.1903	Acrylic white/black object plate		
50.875	Adjustable GEM clamp		
SL.5520	LED replacement for incident LED illumination		
	of DZ.5040 stand		

DISPOSABLES

AE.1385	100 W HBO mercury vapor bulb for fluorescence
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



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

(2) With 10x eyepieces

.

⁽⁹⁾ The parallel system allows many accessories such as photo and epi-fluorescence attachments, iris diaphragms, beam splitters to be added

ZE.1671, AE.1950, ST.1770



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

ZE.1654

780 (h) x 270 (w) x 740 (max) mm (d) | 19 kg







ST.1720, ZE.1654

and LE.5210, LE.5239







LE.5210 and LE.5218 **SPECIFICATIONS**

HIGHLIGHTS

EYEPIECES

Pair of SWF 10x/23 mm eyepieces

HEAD

- Binocular or trinocular heads with a 45° inclined tubes
- Diopter ± 6° adjustment on both tubes for Z series Interpupillary distance from 55 to 75 mm
- Optional click-stops

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

STANDS WITHOUT ILLUMINATION

ST.1710 Pillar stand with ST.1790 head holder. Pillar height 210 mm, diameter Ø 20 mm Dimensions 250 (h) x 150 (w) x 240 mm (d) ST.1718

Pillar ergonomically flat stand with ST.1790 head holder. Pillar height 213 mm, diameter Ø 20 mm. Dimensions 258 (h) x 330 (w) x 306 (d)

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: 290 (h) x 160 (w) x 240 mm (d) min/max height 240-290 mm

Stand with 3 W LED illumination and rotatable double-sided coated mirror





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. Working distance: 0 - 295 mm 65.983 Head holder 85 mm diameter for 65.980

HEAD HOLDERS

Other optional head holders for boom stands

F	
ST.1790	Head holder with coarse adjustment*
ST.1796	Head holder with coarse and fine adjustment*
	Head holder with coarse adjustment and
	opening for one fiber light guide*
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**

^{*} Not suitable for boom stands ST.1720 and 65.980/65.983

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

STAGE

AE.1950 Large sliding X-Y stage, 350 x 270 mm, manual operation

FOCUSING

Coarse adjustment and friction adjustment for head holders for ST.1790, 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



700M STEREO HEADS

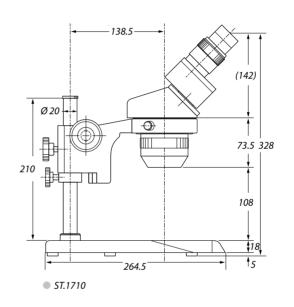
MODELS	Binocular	Trinocular	Tilt tubes	Objective zoom	Magnification	WD (mm)	Field of view (mm)
ZE.1624	•		45°	0.7 - 4.5x	7 - 45x	93	32/5.1
ZE.1654		•	45°	0.7 - 4.5x	7 - 45x	93	32/5.1
ZE.1657		• *	45°	0.7 - 4.5x	7 - 45x	104	32/5.1
ZE.1670	•		45°	1 - 7x	10 - 70x	104	23/3.3
ZE.1671		• *	45°	1 - 7x	10 - 70x	104	23/3.3

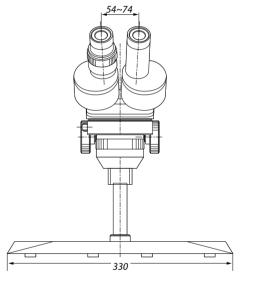
^{*} When the trinocular tube is engaged, the image is still available in both eyepieces All zoom stereo heads are supplied with SWF 10x/23 mm eyepieces without eyecups

STANDS

MODELS	Column (mm)	Diameter (mm)	Rack & pinion	Base (w x d mm)	Height (mm)	Head holder	Illumination
ST.1710	210	20		240 x 150	258	ST.1790	
ST.1718	213	20		330 x 306	285	ST.1790	
ST.1720	610	29		780 x 270	650	ST.1794	
ST.1735			•	240 x 160	290		3 W LED
ST.1740			•	240 x 160	290		10 W Hal
ST.1770	360	29		500 x 580	400	ST.1790	
65.980/65.983			•	Ø 1000 *	0/295	65.983	

^{*} Length with the two arms totally extended





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 glasses

MICROMETER EYEPIECES (with adjustable lens)

-	
AE.1839	SWF 10x/21 mm with 10 mm/100
	micrometer reticle and crosshairs
AE.1841	SWF $10x/21$ mm with 10×10 mm reticle,
	400 squares

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

^{**} Only suitable for boom stand ST.1720

MICROMETER SLIDE

Object slide 76 x 26 mm with micrometer

50mm/500, 100 um/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

Additional 0.75x lens, WD 97 mm AE.1857

Additional 1.5x lens, WD 50 mm AE.1858

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

Additional 1.5x lens, WD 62 mm AE.1808

AE.1809 Additional 2.0x lens. WD 42 mm

ADDITIONAL LENSES

(for ZE.1657)

Additional 0.35x lens, WD 250 mm AE.1816 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)

Protection window for all heads of ZE series AE.1845

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

Analyzer, in rotatable mount. AE.1890

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

Plain stage 145 x 115 mm with 75 x 50 mm AE.1876

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.1881 Glass transparent object plate

AE.1882 Acrylic black/white object plate

FILTERS - Ø 40 MM

AE.1897 Frosted glass filter

AE.1898 Blue filter

OBJECT HOLDER

AE.5446 Orientable clamp for gems.

Interchangeable with object plate clamp

SPARE BULB AND FUSES

SL.1868 30 W 230 V incandescent bulb for ST.1750 stand SL.1869 10 W 6 V halogen bulb for ST.1740 illumination

AE.5252 Fuses for ST.1740 stand. Per 10 pieces

CAMERA ACCESSORIES

AE.5059 Projection 0.45x objective with C-mount for

cameras with 1/2" sensor. To be placed over a

23.2 mm ZE series photo tube.

Optional reticle available

a 23.2 mm ZE series photo tube. Optional reticle available DC.1320 Projection 1x objective with C-mount

Projection 0.7x objective with C-mount for

cameras with 2/3" sensor. To be placed over

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

Universal SLR camera adapter with 2x projection AE.5130

lens for 23.2 mm tubes. Needs T2 adapter

T2 adapter for Canon EOS digital SLR cameras

AE.5025 T2 adapter for Nikon D digital SLR cameras

Other T2 adapters on request WD = working distance

AE.5040

AE.5063



HIGHLIGHTS

Professional stereo microscopes for extra long working distances

Interchangeable magnifications from 2.5x up to 40x

- Overhanging stand
- Large working area
- LED illumination
- 5 Years warranty



■ BE.7405 / BE.7410 /BE.7420

SPECIFICATIONS

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

- · Comes 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.7405	0.5x objective for BE-50 LED. WD 250 mm
BE.6010	Pair of HWF 10x/20 mm eyepieces	BE.7410	1.0x objective for BE-50 LED. WD 230 mm
BE.6015	Pair of HWF 15x/12 mm eyepieces	BE.7420	2.0x objective for BE-50 LED. WD 119 mm
BE.6020	Pair of HWF 20x/10 mm eyepieces	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	•

DE.0003	rail of fiver 5x/22 fillineyepieces	DE./403	
BE.6010	Pair of HWF 10x/20 mm eyepieces	BE.7410	
BE.6015	Pair of HWF 15x/12 mm eyepieces	BE.7420	
BE.6020	Pair of HWF 20x/10 mm eyepieces	AE.1112	
BE.6110	HWF 10x/20 mm eyepiece with micrometer		
BE.6099	Pair of eyecups		

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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.



soldering, quality inspection and so on

Magnifications vary from 2.5x to 40x





BE.1812



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

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



The P series are compact and lightweight, ideal microscopes for industrial applications

















P-20 (60.200)

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



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

high power LED transmitted and incident illumination.

CAMERAS

Euromex offers a wide range of industrial and laboratory grade cameras, see chapter 10 (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

EYEPIECES

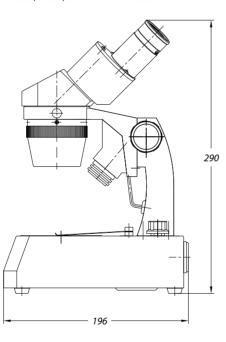
/100

MISCELLANEOUS

50.871	Black/white stage plate Ø 94 mm
50.873	Glass stage plate Ø 94 mm
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

DISPOSABLES

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



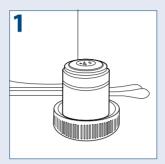


MODELS	45° head	1x/3x objective	2x/4x objective	Transmitted halogen illumination	Incident halogen illumination	Transmitted LED illumination	Incident LED illumination
P-10 60.100	•	•		•	•		
P-10 LED 60.110	•	•				•	•
P-20 60.200	•		•	•	•		
P-20 LED 60.210	•		•			•	•

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



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



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



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



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

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



TECHNICAL

FACTS

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)



PLEASE NOTE

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



industry

materials science





Microscopes for materials science applications have 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

ISCOPE (MATERIALS & POLARIZATION) • PAGE 302

BSCOPE (MATERIALS) • PAGE 308

DELPHI-X OBSERVER (MATERIALS) • PAGE 312

OXION (MATERIALS) • PAGE 320

OXION INVERSO (MATERIALS) • PAGE 324



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 microscopes, polarization microscopes and microscopes specifically designed for asbestos identification



















IS.1053-PLMi IS.1053-PLPOLRi 590 (h) x 210 (w) x 475 mm (d) | 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 circular 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



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 or EWF 10x/20 mm (Ø 30 mm tube) eyepieces, one eyepiece with crosshairs and one eyepiece with crosshairs 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 \pm 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 circular 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 life span.

The Köhler setting provides homogeneous illumination and high contrast

OBJECTIVES

Plan PLPOLi IOS (2) 5x/0.12 10/0.25 20x/0.40 S40x	
)x/0
Plan PLPOLRi IOS (3) 5x/0.12 10/0.25 20x/0.40 (6)	
Plan PLi IOS (4) 4x/0.10 10/0.25 20x/0.40 S40x/0	/0.6

- (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 analyzer 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

	30x/0.70		3100x/0.80 (0)	
S40x/0.65		S60x/0.80 (6)	S100x/1.25 (6)	
	50x/0.70		S100x/0.80 (6)	
S40x/0.65 (5)		S60x/0.85 (6)	S100x/1.25 (6)	

- (4) Plan PLi infinity corrected objectives for asbestos research. With 0.17 mm cover glass correction
- (5) The S40x objective for asbestos research is a plan phase PLPHi infinity corrected objective. With 0.17 mm cover glass correction
- (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/20 mm ⁽⁴⁾	EWF 10x/22 mm ⁽⁴⁾	Plan PLPOLi 5x/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	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

ISCOPE® METALLURGICAL MODELS

I	MODELS	Bino	Trino	EWF 10x/20 mm	Plan PLMi 5x/10x/20x/ S50x IOS objectives *	Mechanical rackless stage	Abbe condenser	Köhler 3 W LED	Metallurgical attachment with NeoLED™ epi-illumination
I	S.1052-PLMi	•		•	•	•	•	•	•
1	S.1053-PLMi		•	•	•	•	•	•	•

^{*}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 *	Plan phase PLPHi S40x objectives	Phase contrast condenser	Mechanical rackless stage	iCare Sensor	Köhler LED
IS.1052-PLAi	•		•	•	•	•	•	•	•	•
IS.1053-PLAi			•	•	•		•	•		

^{*} 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 (see photo on the right)





⁽²⁾ Strain free objectives without 0.17 mm cover alass 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 leph polarization models are supplied with one eyepiece with crosshairs and one eyepiece with crosshairs and 10/100 micrometer

ACCESSORIES AND SPARE PARTS

EYEPIECES

IS.6212

IS.6210	EWF 10x/22 mm eyepiece*
IS.6210-C	EWF 10x/22 mm eyepiece with crosshairs*
IS.6210-P	EWF 10x/22 mm eyepiece with pointer*
IS.6210-CM	EWF 10x/22 mm eyepiece with 10/100

micrometer and crosshairs* WF 12.5x/17 mm eyepiece*

IS.6212-W WF 12.5x/17 mm eyepiece with Walton Beckett

reticle*

IS.6215 WF 15x/16 mm eyepiece*

IS.6215-CM EWF 15x/16 mm eyepiece with 10/100

micrometer and crosshairs*

IS.6220 WF 20x/12 mm evepiece*

Pair of eyecups for infinity corrected IS.6299

iScope® models

IS.6310 EWF 10x/20 mm eyepiece*

IS.6310-C EWF 10x/20 mm eyepiece with crosshairs*

IS.6310-CM EWF 10x/20 mm eyepiece with 10/100

micrometer and crosshairs*

IS.8105

PLAN PLMI INFINITY CORRECTED IOS **OBJECTIVES FOR MATERIALS SCIENCE**

Plan PLMi 5x/0.12 IOS objective. * WD 15.5 mm

IS.8110 Plan PLMi 10x/0.25 IOS objective. * WD 10 mm IS.8120 Plan PLMi 20x/0.40 IOS objective. * WD 4.3 mm

IS.8150 Plan PLMi S50x/0.70 IOS objective. * WD 0.32 mm IS.8100 Plan PLMi S100x/0.80 IOS objective. * WD 2 mm

PLAN PLI INFINITY CORRECTED IOS **OBJECTIVES FOR ASBESTOS RESEARCH**

IS.7202	PLan PLi 2x/0.05 IOS objective. ** WD 20.2 mm
IS.7204	PLan PLi 4x/0.12 IOS objective. ** WD 15.4 mm
IS.7210	PLan PLi 10x/0.25 IOS objective. ** WD 10 mm
IS.7220	PLan PLi 20x/0.40 IOS objective. ** WD 5.1 mm
IS.7210	PLan phase PLPHi 40x/0.65 IOS objective. **
	WD 0.54 mm
IS.7260	PLan PLi 60x/0.85 IOS objective. ** WD 0.14 mm
IS.7200	PLan PLi 100x/1.25 IOS objective. ** WD 0.19 mm

^{**} With 0.17 mm cover glass correction

PLAN PLPOLI INFINITY CORRECTED IOS **OBJECTIVES FOR POLARIZATION**

without reflected illumination attachment

IS.7905-T Plan PLPOLi 5x/0.12 IOS objective. * WD 15.5 mm IS.7910-T Plan PLPOLi 10x/0.25 IOS objective. * WD 10 mm

IS.7920-T Plan PLPOLi 20x/0.40 IOS objective. **

WD 5.1 mm

IS.7940-T Plan PLPOLi S40x/0.65 IOS objective. **

WD 0.54 mm

IS.7960-T Plan PLPOLi S60x/0.80 IOS objective. **

WD 0.14 mm

IS.7900-T Plan PLPOLi S100x/1.25 IOS oil immersion

objective. ** WD 0.13 mm

* No cover glass correction

PLAN PLPOLRI INFINITY CORRECTED IOS **OBJECTIVES FOR POLARIZATION**

with reflected illumination attachment

IS.7905-R Plan PLPOLi 5x/0.12 IOS objective. * WD 15.5 mm IS.7910-R Plan PLPOLi 10x/0.25 IOS objective. * WD 10 mm IS.7920-R Plan PLPOLi 20x/0.40 IOS objective * WD 5.8 mm IS.7950-R Plan PLPOLi S50x/0.75 IOS objective. * WD 0.92 mm IS.7900-R Plan PLPOLi S100x/0.80 IOS objective. * WD 2 mm

TRANSMITTED KÖHLER ILLUMINATION SYSTEM

15.9700	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.9604	Quartz wedge in slider
IS.9608	Analyzer 0-360° rotatable
IS.9610	Lambda plate first red 530 nm in slider
IS.9612	Lambda/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 Lambda plate first red 530 nm

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

AE.3679 Halogen spare bulb 12 V 50 W

MATERIALS SCIENCE ATTACHMENT

with reflected NeoLED™ epi-illumination

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)

572

232

IS.9731 Slider with green and blue filters

IS.9515 Metal plain insert for mechanical

IS.9518 Glass plain insert for mechanical stage

SL.5500 3 W NeoLED™ replacement unit

CAMERA ACCESSORIES

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

AE.5040 T2 adapter for Canon EOS SLR digital camera

AE.5025 T2 adapter for Nikon D SLR

digital camera

MISCELLANEOUS

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

DISPOSABLES

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

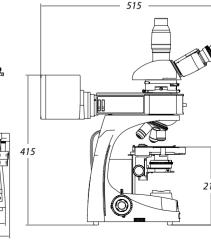
PB.5255 Immersion oil, n = 1.482 (25 ml)

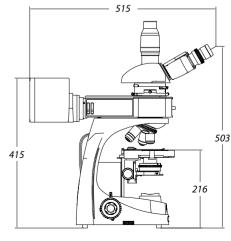
Cleaning liquid, isopropanol alcohol 99% PB.5274

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

WD = working distance







6

^{*}Ø30 mm tube

^{*} No cover glass correction

^{*} No cover glass correction

^{**} With 0.17 mm cover glass correction



for materials science

The well-equipped microscopes of the bScope® 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 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



















- 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

SPECIFICATIONS

EYEPIECES

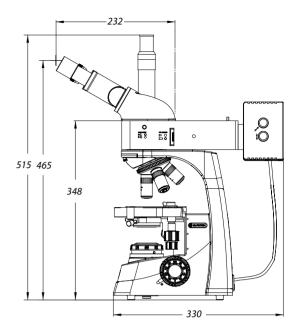
Wide field WF 10x/22 mm eyepieces with 22 mm field of view (Ø 30 mm tube)

HEAD

The bScope® is equipped with a Siedentopf type head, 360° rotatable and equipped with 30° inclined tubes, sporting 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. Models with an integrated USB-2.0 camera are supplied with a 5.0 MP 1/2.5" CMOS sensor with a resolution of 2592 x 1944 pixels (see chapter 10)







NOSEPIECE

Revolving and reversed ball-bearing quadruple nosepiece

OBJECTIVES

The state-of-the-art production techniques and multi layer coatings used for the manufacturing of the bScope® objectives enable the bScope® to be used for the most demanding applications. World class spherical aberration correction and modern CNC and assembly technology ensure 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 objectives are spring loaded All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

TRINOCULAR MODEL BS.1053-PLMi

515 (h) x 195 (w) x 431 mm (d) | 8.5 kg

BS.1053-PLMi

scope

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 life span

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

Pair of eyecups, Ø 30 mm tube

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

MODEL	Trinocular	WF 10x/22 mm eyepieces	PLMi 5x/10x/20x/50x IOS objectives	Transmitted NeoLED™ Köhler illumination	Relfected NeoLED™ Köhler illumination
BS.1053-PLMi	•	ě	•	•	•

Optional: PLMi 100x IOS objective

ACCESSORIES AND SPARE PARTS

EYEPIEC	ES	MISCELLANEOUS			
BS.6310	WF 10x/22 mm eyepiece, Ø 30 mm tube	AE.1370	Set of rechargeable batteries, three piece		
BS.6310-M	WF 10x/22 mm eyepiece, Ø 30 mm tube with				
	10/100 micrometer	BS.9515	Metal plain insert for mechanical stage		
BS.6315	WF 15x/12 mm eyepiece, Ø 30 mm tube	BS.9518	Glass plain insert for mechanical stage		

ORIECTIVES

OBJECT	IVES	AE.5130	Universal Ø 23.2 mm tube adapter with built-in
BS.8105	Plan M-IOS DIN 5x/0.12 infinity corrected		2x lens for SLR photo camera with APS-C senso
	objective. WD 26.1 mm		Needs T2 adapter
BS.8110	Plan M-IOS DIN 10x/0.25 infinity corrected	AE.5025	T2 adapter for Nikon D SLR digital camera
	objective. WD 20.20 mm	AE.5040	T2 adapter for Canon EOS SLR digital camera
BS.8120	Plan M-IOS DIN 20x/0.40 infinity corrected		
	objective. WD 8.80 mm	DISPOS	ABLES
BS.8150	Plan M-IOS DIN 50x/0.70 infinity corrected	PB.5155	Microscope slides 76 x 26 mm, ground edges,
	objective. WD 3.68 mm		50 pieces
BS.8180	Plan M-IOS DIN 80x/0.80 infinity corrected	PB.5165	Cover glasses 18 x 18 mm,
	objective. WD 1.25 mm		thickness 0.13-0.17 mm, 100 pieces
BS.8100	Plan M-IOS DIN 100x/0.85 infinity corrected	PB.5168	Cover glasses 22 x 22 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

objective. WD 0.40 mm

CAMILIA	A ACCESSORIES
AE.5130	Universal Ø 23.2 mm tube adapter with built-in
	2x lens for SLR photo camera with APS-C sensor
	Needs T2 adapter
AE.5025	T2 adapter for Nikon D SLR digital camera

CAMERA ACCESSORIES

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

WD = working distance





DX.2053-PLMRi



















BS.1053-PLMi 454 (h) x 261 (w) x 470 mm (d) | 21.6 kg

HIGHLIGHTS

- Brightfield and darkfield EPi illumination
- Polarization
- Nomarski DIC (optional)
- **Enhanced infinity corrected EIS optical system**
- High contrast objectives with minimal aberrations
- Full apo, semi-apo and plan EIS objectives
- Super wide field SWF 10x/25mm eyepieces
- 100 W halogen illumination
- Sextuple reversed nosepiece with slot for DIC
- Quintuple nosepiece for polarization models

SPECIFICATIONS

EYEPIECES

- · Super wide field SWF 10x/25 mm, Ø 30 mm tubes
- Extended wide field EWF 10x/22 mm, Ø 30 mm tubes (optional)

STANDARD HEAD

Siedentopf trinocular with 30° inclined tubes. Interpupillary distance adjustable between 47 and 78 mm. The trinocular standard head has an optical path selector (100:0 / 80:20 / 0:100). Diopter adjustment on both eyepieces

ERGONOMIC TILTING HEAD

Optional ergonomic 0 to 35° tilting trinocular head supplied with SWF 10x/25 mm eyepieces, interpupillary distance between 47-78 mm and photo tube with a standard Ø 23.2 mm tube. The trinocular tilting head has an optical path selector (100:0 / 80:20 / 0:100). Diopter ± 5 adjustments on both eyepieces

NOSEPIECE

Revolving sextuple reversed nosepiece on ball-bearings with 25 mm objectives mounting threads except the models for polarization applications which are equipped with a quintuple nosepiece

ENHANCED INFINITY SYSTEM (EIS)

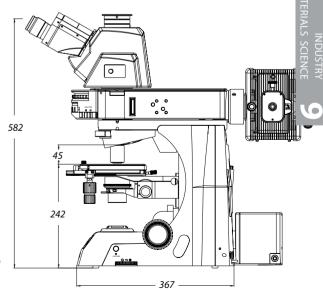
The enhanced infinity system (EIS) of the Delphi-X Observer™ consists of super wide field SFWF 10x25 mm eyepieces, high



Revolver with slot for Nomarski DIC slider

numerical aperture 45 mm parfocal objectives and a 200 mm focal length tube lens. This tube lens reduces the angle of the light rays passing through the optics and as a direct result significantly improves the chromatic aberration corrections and contrast. The objectives with larger diameter enable much higher numerical apertures improving the overall resolving power of the optical system

For all these reasons the Delphi-X Observer™ offers superior optical performance for the most demanding applications





euromex 313

OBJECTIVES

The following infinity corrected EIS objectives are supplied with or available for the Delphi-X Observer™:

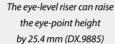
Plan semi-apo PLMi (BF/DF)		5x/0.15, WD 20 mm	10x/0.30, WD 11 mm	20x/0.45, WD 3.1 mm		
Plan apo PLMi (BF/DF)					50x/0.80, WD 1 mm	100x/0.90, WD 1 mm ⁽¹⁾
Plan semi-apo PLPOLRi (2) strain-free		5x/0.15, WD 20 mm	10x/0.30, WD 11 mm	20x/0.45, WD 3.0 mm	50x/0.80, WD 1 mm	
Plan PLPOLi (BF/POL) (3)	2x/0.06, WD 7.5 mm	4x/0.10, WD 20 mm	10x/0.25, WD 10.2 mm	20x/0.45, WD 12 mm	40x/0.65, WD 0.7 mm	60x/0.80, WD 0.3 mm ⁽¹⁾

¹⁾ Optional

All objectives are 45 mm parfocal and have a M25 x 0.7 mounting thread. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

The nosepiece lowering attachment lowers the revolver with 40 mm allowing the stage to be used in a 40 mm lower position as well (DX.9887)







STAGE

- Large 215 x 170 mm stage with 105 x 105 mm integrated right-handed mechanical stage, with glass and metal insert Stage height can be lowered for large samples (1 to 28 mm standard sample size, lowered to 55 mm sample size)
- Diameter 190 mm circular stage for models for polarization applications. 360° Rotatable with Vernier and two object clamps and an optional 30 x 30 mm X-Y mechanical stage

CONDENSER FOR POLARIZATION

Height adjustable Abbe N.A. 1.25 condenser with iris diaphragm and 306° rotatable polarizer

FOCUSING

Coaxial coarse and fine adjustment, 100 graduations, 1 μm precision, 100 μm per rotation, total travel range is approximately 35 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse

adjustments are equipped with friction control. The focusing knobs can be switched from left to right according to the user's preference

LONG WORKING DISTANCE CONDENSER

In height adjustable long working distance N.A. 0.65 condenser (10.2 mm) with numerical aperture identification marks allows easy setting

ILLUMINATION

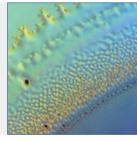
The Delphi-X Observer materials science microscope is equipped with epi and diascopic intensity adjustable 100 W halogen illumination with internal 100-240 Vac power supply. The diascopic halogen illumination comes with two push-in/ push-out neutral density filters for smooth attenuation of the light intensity for all kinds of samples

The microscope comes with an analyzer and a polarizer which can easily be inserted into the free slots of the Epi-Illuminator for high quality polarized images. Furthermore a rotating cassette is implemented for quick changing between darkfield, brightfield and dimmed brightfield

NOMARSKI DIC (OPTIONAL)

With the redesign of the DIC-module visualization of height differences which normally cannot be displayed using

A 3-dimensional or relief-like image produced with the DIC-module



brightfield techniques has greatly improved. These relief-like images are ideal for surface inspections of wafers, LCD screens, etc

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

CARRYING GRIP

The carrying grip at the back of the microscope ensures safe transportation of the microscope and the integrated tool and holder makes sure the right tool is always available

PACKAGE CONTENT

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

Fixed 30 degree Siedentopf head	Ergonomic tilting head	Plan EIS 2x/0.06 objective*	Plan EIS 4x/0.10, 10x/0.25 and 40x/0.65 objectives*	Plan semi-apo EIS 5x/0.15, 10x/0.30 and 20x/0.45 objectives*	Plan apo EIS 50x/0.80 objective*	Plan apo EIS 100x/0.90 objective*	100 W 12 V transmitted halogen Köhler illumination	100 W 12 V reflected halogen Köhler illumination	(DIC)
•		0		•	•	0	•	•	0
	•	0		•	•	0	•	•	0
•		o		•	•	0		•	o
	•	0			•	0		•	0
		0	•		0	0	•	•	0
	•	0	•		0	0	•	•	0
•		0	•		0	О	•		0
	•	0	•		0	0	•		0
	30 degree Siedentopf head	30 degree tilting Siedentopf head	30 degree Siedentopf head shead shea	30 degree Siedentopf head Siedentopf head	30 degree Side Side Side Side Side Side Side Si	30 degree Siedentopf head bead objective* 10x/0.25 and 40x/0.65 objective* 20x/0.45 objective* 0x/0.25 and 40x/0.65 objectives* objectives*	30 degree Siedentopf head Discrive* Discrive	30 degree Siedentopf head objective* 10x/0.25 and 40x/0.65 objectives* objectives*	30 degree Sidedntopf head tilting lead head 2x/0.06 objective* and 40x/0.65 objectives* 4x/0.10, 10x/0.30 and 20x/0.45 objectives* 50x/0.80 objectives* objectives* 100x/0.90 objectives* objectives* transmitted halogen Köhler illumination reflected halogen Köhler illumination .

^{*} Infinity corrected o = optional





²⁾ For models for polarization applications with incident illumination. No cover glass correction

³⁾ For models for polarization applications without incident illumination. With 0.17 mm cover glass correction



ACCESSORIES AND SPARE PARTS

EYEPIECES

DX.6010	Super wide field SWF 10x/25 mm eyepiece	DX.7920-R	Infinity EIS 45 mm plan Semi-apochromatic
	for Ø 30 mm tube		PLPOLi 20x/0.45 strain-free objective.
DX.6010-C	I Super wide field SWF 10x/25 mm eyepiece		WD 3.0 mm. No cover glass correction
	with 10/100 micrometer and crosshairs	DX.7950-R	Infinity EIS 45 mm plan apochromatic PLPOLi
	for Ø 30 mm tube		50x/0.80 strain-free objective. WD 1 mm.
DX.6210	Super wide field SWF 10x/22 mm eyepiece		No cover glass correction
	for Ø 30 mm tube		
DX.6210-C	I Super wide field SWF 10x/22 mm eyepiece	DX.7904-T	Infinity EIS 45 mm plan PLPOLi 4x/0.10 strain-
	with micrometer and crosshairs		free objective. WD 20 mm. With 0.17 mm cover
	for Ø 30 mm tube		glass correction
DX.6012	Wide field WF 12.5x/17.5 mm eyepiece	DX.7910-T	Infinity EIS 45 mm plan PLPOLi 10x/0.25 strain-
	for Ø 30 mm tube		free objective. WD 10.2 mm. With 0.17 mm cover
DX.6015	Wide field WF 15x/16 mm eyepiece		glass correction
	for Ø 30 mm tube	DX.7920-T	Infinity EIS 45 mm plan PLMi 20x/0.40 strain-free
DX.6020	Wide field WF 20x/12 mm eyepiece		objective. WD 12 mm. With 0.17 mm cover glass
	for Ø 30 mm tube		correction
DX.6099-L	Eyecup for eyepiece	DX.7940-T	Infinity EIS 45 mm plan PLPOLi 40x/0.65 strain-
			free objective. WD 0.7 mm. With 0.17 mm cover
INFINIT	Y CORRECTED OBJECTIVES		glass correction

(all objectives below have a M26x0.7 thread)

DX.8102	Infinity EIS 45 mm plan PLMi 2x/0.06 objective.		objective. WD 0.3 mm. With 0.17 mm cover glass
	WD 7.5 mm *		correction
DX.8105	Infinity EIS 45 mm plan semi-apochromatic	DX.7900-T	Infinity EIS 45 mm plan PLPOLi S100x/1.25 strain-
	SAMi 5x/0.15 objective. WD 20 mm *		free oil-immersion objective. WD 0.2 mm. With
DX.8110	Infinity EIS 45 mm plan semi-apochromatic		0.17 mm cover glass correction
	SAMi 10x/0.30 objective. WD 11 mm *	WD = workii	ng distance
DX.8120	Infinity EIS 45 mm plan semi-apochromatic SAMi		
	20x/0.45 objective. WD 3.0 mm *	POLARI	ZATION ATTACHMENT
DX.8150	Infinity EIS 45 mm plan apochromatic PLAMi	without inci	dent illumination
	50x/0.80 objective. WD 1 mm *	DX.9604	Slider with quartz wedge plate

^{*} No cover glass correction

DX.8100

DX.7905-R Infinity EIS 45 mm plan Semi-apochromatic PLPOLi 5x/0.15 strain-free objective. WD 20 mm. No cover glass correction **DX.7910-R** Infinity EIS 45 mm plan Semi-apochromatic PLPOLi 10x/0.30 strain-free objective. WD 11 mm. No cover glass correction

100x/0.90 objective. WD 1 mm

Infinity EIS 45 mm plan apochromatic PLAMi

ATTACHMENT

th quartz wedge plate DX.9608 Slider with 0-360° rotatable analyzer,

DX.7960-T Infinity EIS 45 mm plan PLMi 60x/0.80 strain-free

0.1° divisions

DX.9610 Slider with Lambda plate first red

Slider with Lambda/4 plate DX.9612



POLARIZATION ATTACHMENT

with incident illumination

DX.9602-R Slider with rotatable polarizer

DX.9608-R Slider with 0-360° rotatable analyzer. 0.1° divisions

AE.5216

DX.9522

PB.5245

PB.5255

PB.5274

PB.5275

PB.5276

DISPOSABLES

halogen

polarization microscopes

Isopropyl alcohol 99%, 200 ml

brush, air blower, cotton swabs

Fuses 5A 250 V, per 10 pcs. models with 100 W

Optional 30 x 40 mm X-Y mechanical stage for

Lens cleaning paper, 100 sheets per pack

Immersion oil, 25 ml. Refraction index n = 1.482

Cleaning kit: lens fluid, lint free lens tissue paper,

Microscope maintenance and servicing kit, 16pcs:

cleaning brush, 6 pcs screwdriver set, air blower,

3 pcs Allen key, 1.5, 2, 2.5 mm, lens cleaning fluid

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

tissue sheets, tube of maintenance grease, 10 ml

bottle of oil, packed in a nice toolbox

MATERIALS SCIENCE STAGES

DX.9502-R Plain mechanical stage right handed

DX.9502-L Plain mechanical stage left handed

DX.9501-R Stage with Gorilla glass, hole and specimen

holder. Right handed DX.9501-L Stage with Gorilla glass, hole and specimen

holder. Left handed

DX.9504-R Stage with Sapphire glass, hole and specimen

holder. Right handed

DX.9504-L Stage with Sapphire glass, hole and specimen

holder. Left handed

CAMERA ACCESSORIES

DX.9810 C-mount with 1 magnification for C-mount camera

C-mount with high resolution relay 0.35x DX.9835

objective for 1/3 inch C-mount camera

C-mount with high resolution relay 0.50x DX.9850

objective for 1/2 inch C-mount camera

DX.9863 C-mount with high resolution relay 0,63x

objective for 2/3 inch C-mount camera

AE.5130 Universal SLR-adapter with built-in 2x lens for

standard 23.2 mm tube. Needs T2 adapter

AE.5025 T2 adapter for Nikon D SLR-digital camera

AE.5040 T2 adapter for Canon EOS SLR-digital camera

MISCELLANEOUS

DIC attachment for materials sciences Delphi-X DX.9696

Observer models

DX.9704 Yellow filter for lamphouse, diameter 45 mm

DX.9885 25.4 mm eye-level riser (1 inch)

DX.9887 40 mm nosepiece and stage lowering attachment

DX.9961 100 Watt 12 V halogen bulb for Delphi-X

Observer (revision-2 models)

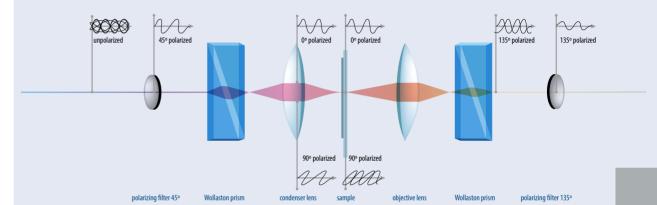
about

differential interference contrast

Differential interference contrast (DIC) technique helps in microscopy to enhance the contrast of samples

The technique is based on interferometry to obtain information about the small difference in optical path length between two orthogonally polarized light rays coming from the sample

This results in an image of the sample appearing as a three-dimensional physical relief. Polarized light is split into two orthogonally polarized coherent light rays by means of a Nomarski-modified Wollaston prism. Subsequently the sample spatially shifts the light rays slightly

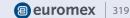


By passing a second Nomarski-modified Wollaston prism, the spatially shifted polarized light is recombined. These recombined light rays pass through a second polarization filter that blocks useless direct transmitted light. The interference of the two rays is sensitive to the optical path difference and by introducing an adjustable offset, the contrast is proportional to the path length so that the heights and depths of the sample appear as three-dimensional objects. Discontinuities on the surface, edges, lines and height differences on the sample create optical path differences that are turned into amplitude / intensity differences in the image, enhancing details in a topographically incorrect way but enables imaging of otherwise invisible details





The Nomarski prism consists of two birefringent crystal wedges cemented together at the hypotenus. One wedge is a Wollaston wedge, the second wedge of the prism is modified by cutting the crystal so that the optical axis is oriented obliquely with respect to the flat surface of the prism



TECHNICAL

FACTS

0



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

Oxion

for materials science

Oxion microscopes for materials science are specifically designed for the observation of many types of materials in university and in industrial research laboratories and by professionals

Thanks to the high resolution optics and state-of-the-art components, these microscopes can be widely used for routine and fundamental applications

EYEPIECES

SPECIFICATIONS

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)

Reflected illumination unit with oblique lighting feature



NOSEPIECE

Reversed nosepiece for a maximum of five 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





















OX.3245

STAGE

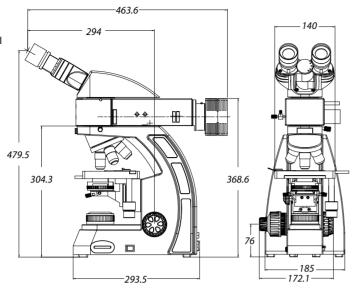
180 x 145 mm stage with integrated mechanical 78 x 45 mm X-Y stage. Is supplied with plain metal and plain glass inserts A ceramic stage is also available on request

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





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	•	•	•	•	•

ACCESSORIES AND SPARE PARTS

Plan achromatic M-IOS DIN PL 5x/0.15 objective.*

EYEPIECES

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

OBJECTIVES

AE.3172

	WD 10.8 mm
AE.3173	Plan achromatic M-IOS DIN PL 10x/0.30
	objective.* WD 12.2 mm
AE.3175	Plan achromatic M-IOS DIN PL 20x/0.45
	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

^{*} No cover glass correction

POLARIZATION ATTACHMENTS

objective.* WD 2.1 mm

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)

FILTERS

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)

CAMERA ACCESSORIES

	AE.5120-2	Standard 23.2 mm diameter tube
		for Oxion photo port revision-2
	AE.5130	Universal SLR camera adapter with
		2x projection lens for 23.2 mm tubes.
		Needs T2 adapter and AE.5120 or AE.5120-2
	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

MISCELLANEOUS

OX.9515	Metal plain insert for mechanical stage
OX.9518	Glass plain insert for mechanical stage
AE.3185	Slider with darkfield stop for transmitted
	illumination (only for objectives 10x, 20x
	and S40x)
AE.3199	Glass fuses 3.15 A 250 V, 10 pieces

DISPOSABLES

PB.5274	Cleaning liquid, isopropanol alcohol
	99% (200ml)
PB.5275	Cleaning kit: lens cleaning fluid, lint free len
	tissue, brush, air blower and cotton swabs

PB.5245 Lens cleaning paper, 100 sheets

WD = working distance

Plain stage





OX.2153-PLM / OX.2653-PLM

suitable for a wide variety of applications





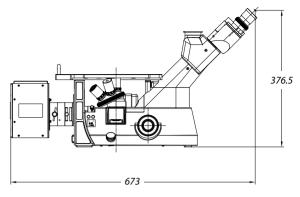


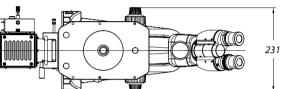






- Materials science applications
- Observation of all types of materials
- **Brightfield with polarization options**
- Long working IOS plan achromatic objectives
- Long working IOS plan semi apochromatic objectives
- Revolving quintuple nosepiece
- 50 W halogen Köhler illumination
- 10 Years warranty





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 100-0/0-100

OBJECTIVES

Infinity color corrected long working distance 5x/0.15, 10x/0.14, 20x/0.45 plan achromatic IOS objectives and a plan semi apochromatic S50x/0.55 IOS objective. Model OX.2153-PLM also has a plan semi apochromatic \$100x/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 with Ø 12 mm hole and Ø 25 mm hole
- · metallic insert with hole for mechanical stage

FOCUSING

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

ILLUMINATION

Reflected 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 is supplied in an aluminum transport case

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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

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 evecups

OBJECTIVES

OX.8205	Plan achromatic PLM 5x/0.15 IOS objective*.
	WD 10.8 mm
OX.8210	Plan achromatic PLM 10x/0.30 IOS objective*.

OX.8210	Plan achromatic PLM 10x/0.30 IOS objective*.
	WD 12.2 mm

OX.8220	Plan achromatic PLM 20x/0.45 IOS objective*.
	WD 4 mm

OX.8250	Plan semi apochromatic PLM \$50x/0.55 l		
	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 Ø 35 mm
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

MISCELLANEOUS

AE.3199	Glass fuses 3.15 A 250 V, 10 pcs
SL.3679	Halogen spare bulb 12 V 50 W
AE.5120-2	Standard 23.2 mm diameter tube
	for Oxion Inverso photo port revision-2
AE.5130	Universal SLR camera adapter with 2x projection
	lens for 23.2 mm tube. Needs T2 adapter and
	AE.5120 or AE.5120-2
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

Lens cleaning paper, 100 sheets per pack PB.5245

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

rocks, minerals in thin sections and asbestos fibers

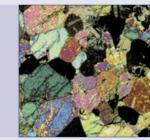
Euromex microscopes for polarization are intensively used in petrology and optical mineralogy to identify

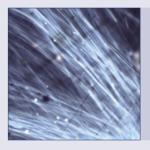
Conventional brightfield microscopes are turned into a petrological microscope by:

- 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





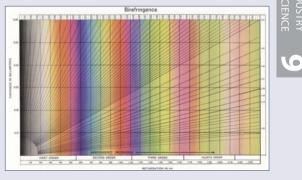
Crocodolite asbestos fiber

TECHNICAL FACTS

The most common compensators are:

- 1 λ Wave plate is often referred to as 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 specific identification of asbestos fibers



Michel-Levy chart

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

Large stage with

X-Y mechanical stage

^{*} No cover glass correction

industry

digital solutions



digital solutions

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

Euromex digital products incorporate all the latest available technology in this field such as WiFi, HDMI and sCMOS sensors. Our digital solutions package includes the powerful ImageFocus software for image analysis



DIGITAL MICROSCOPES • PAGE 330

MACROZOOMS • PAGE 332

WIFI CAMERA • PAGE 336

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HD CAMERAS • PAGE 340 COOLED COLOR CAMERAS • PAGE 344

TABLET CAMERA • PAGE 346

SOFTWARE • PAGE 348

ADAPTERS • PAGE 350

The versatile and evolutive bScope® microscopes are well-equipped and intensively used in universities, small to mid-sized industrial laboratories and for all kinds of quality inspections

The bScope® comes with WF 10x/20 mm eyepieces and is available in a binocular configuration with quadruple nosepiece. Complete with plan M-IOS 5x/0.12, 10x/0.25, 20x/0.40, 50x/0.70 IOS objectives. Optionally plan M-IOS S80x/0.80 and S100x/0.85 DIN IOS objectives are also available







BS.1057-PLMi

(bscope)



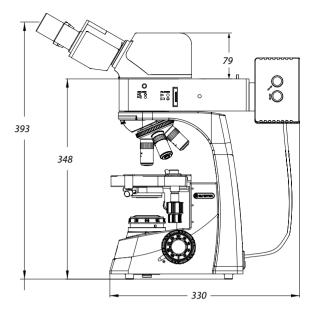








- Binocular model
- 2-position swiveling ergo head
- Integrated 5.0 MP CMOS color USB.2 camera
- 2592 x 1944 pixels
- 7 frames per second (2592 x 1944 pixels)
- 27 frames per second (1280 x 960 pixels)
- 10 Years warranty (2 years on camera)



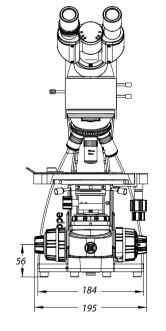
SPECIFICATIONS

CAMERA

The digital bScope microscopes are equipped with a 5.0 MP 1/2.5 inch CMOS USB-2.0 camera, 24 bits color depth, 7 frames per second (2592 x 1944 pixels) or 27 frames per second (1280 x 960 pixels). Dynamic range is 76 db and signal/noise ratio 41 db. Supplied with ImageFocus Alpha software, USB-2.0 cable and a micrometer 1mm/100 calibration slide

SOFTWARE

The capture and analysis ImageFocus Alpha software allows to save images in .jpg, .tif, .bmp or .dicom formats as well as .avi format videos. Measurements and annotations can be done on live or captured images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations. A Mac OS version is also available. Free updates can be downloaded from our website. For full microscope specifications and accessories see chapter 9: Materials science microscopes



MODEL	Binoculair	WF 10x/18 mm eyepieces	PLMi 5x/10x/20x/50x IOS objectives	Transmitted NeoLED™ Köhler illumination	Relfected NeoLED™ Köhler illumination	
BS.1057-PI Mi		•	•	•	•	

All models can optionally be supplied with three AA rechargeable batteries

BS.1057-PLMi

515 (h) x 195 (w) x 431 mm (d) | 9.1 kg





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











MZ.5000





HIGHLIGHTS

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

SPECIFICATIONS

CENTRAL ZOOM OBJECTIVE

The Digital MacroZoom MZ.5000 features a single zoom objective with a 0.7 to 5x zoom magnification. Zoom adjustment engravings on 1, 1.5, 2, 3, 4 and 5x. The working distance is 105 mm. Supplied with a 0.5x additional lens with a working distance of 170 mm

STAND

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

ILLUMINATION

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

BUILT-IN CAMERA

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



Adjustable screen

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

BUILT-IN SOFTWARE

The built-in on-screen software is mouse driven and features functions such as Capture image, Freeze image, Automatic white balance, Automatic exposition, File manager, Grids and camera settings such as exposure time, gain, saturation, contrast, sharpness, HDR. Measurement functions are also available from the software such as line, area, angle. Images are saved in .jpg format and videos are saved in .avi format. With the digital zoom function, objects can be observed with a magnification up to 70 times

PACKAGE CONTENT

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

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



The high-end MacroZoom is built around one 0.7 to 5 times optical zoom objective and must be used in combination with C-mount types of cameras with a HD screens or computer screens. With a working distance of 105 mm it is highly suitable for repairs, tooling engineers and visual inspections

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

> > MZ.4500



SPECIFICATIONS

CENTRAL ZOOM OBJECTIVE

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

STAND

The MacroZoom is mounted on a 230 mm height pillar (Ø 32 mm) and holder (Ø 39/50 mm) that sits on a metal 320 x 260 x 16/25 mm metal stand

CAMERA SYSTEMS

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

PACKAGING

Supplied with dust cover and packed in styrofoam

HIGHLIGHTS

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



MZ.4500



The CMEX-5 WiFi-2 camera is equipped with a 5.0 MP CMOS sensor with 12 bits grayscale conversion and a 24 bits color rendering

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

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

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

Android app for this camera is supplied on cd-rom and www.euromex.com. IOS app can be downloaded from the App store (free of charge). ImageFocus Alpha software can be used by means of WiFi on PC's and Macs

The camera is powered by the included USB charger or a computers USB port. Standard 0.37x C-mount objective is included

MODEL	Sensor	Sensor size (inches)	Pixels size (μm)	Resolutions	Grayscale conversion	Color rendering			Sensitivity V/lux-sec	Product number
CMEX-5 WiFi-2	CMOS	1/2.5"	2.2 x 2.2	1280 x 720	12 bits	24 bits	60	66.5	0.53	DC.5000-WiFi-2

The CMEX-5 WiFi-2 camera is supplied in a box with USB-2.0 cable, 30.0 and 30.5 mm adapters to use with stereo microscopes, and a 0.37x C-mount objective



CMEX USB-2.0 cameras

with fast CMOS sensor

The CMEX-2f, CMEX-5f and CMEX-12f are equipped with a fast CMOS sensor. The CMEX cameras are equipped with USB-2.0 data interface and supplied with ImageFocus Plus 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 version is also available. Free updates can be downloaded from our website

MODELS	Number of pixels (MP)	Sony Sensor	Pixels size (μm)	Resolutions	Max. frames (p/sec)	Grayscale conversion	Color rendering	Dynamic (db)	Sensitivity V/lux- sec (at 550 nm)	Product number
CMEX-2f	2.0	1/2.9" CMOS	2.8 x 2.8	1920 x 1080	30	8 bits	24 bits	72	0.51	DC.2000f
CMEX-5f	5.0	1/2.8" CMOS	2.0 x 2.0	2560 x 1920 1600 x 1200	30 50	8 bits	24 bits	72	2.0	DC.5000f
CMEX-12f	12.0	1/2.3" CMOS	1.33 x 1.33	4000 x 3000 2592 x 1944	15 30	8 bits	24 bits	60	1.5	DC.12000f

The CMEX cameras are supplied with USB-2.0 cable, 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscopes, 1 mm/100 (10 µm/division) calibration slide. The cameras are supplied with a 0.45x C-mount objective



with CMOS sensor

The CMEX-3 Pro. -5 Pro. -10 Pro and -18 Pro cameras are equipped with a 3.1, 5.1, 10 or 18 MP CMOS sensor with 12 bits grayscale conversion and a 24 bits color rendering. These cameras are equipped with a USB-3.0 data interface enabling fast frame rate 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 version is available. Free updates can be downloaded from our website

MODELS	Sensor	Sensor size (inch)	Pixels size (μm)	Exposure time	Resolutions	Max. frames (p/sec)	Signal/ Noise (db)	Dynamic (db)	Sensitivity V/lux-sec	Product number
CMEX-3 Pro	CMOS	1/3"	2.2 x 2.2	1 ms ~ 2000 ms	2048 x 1534 1024 x 770	28 53	39	100	1.9	DC.3000-PRO
CMEX-5 Pro	CMOS	1/2.5″	2.2 x 2.2	1 ms ~ 2000 ms	2560 x 1922 1270 x 960 640 x 480	14 39 100	39	68.	1.76	DC.5000-PRO
CMEX-10 Pro	CMOS	1/2.3″	1.67 x 1.67	1 ms ~ 2000 ms	3584 x 2746 1792 x 1372	8 25	35.5	63.5	0.31	DC. 10000-PRO
CMEX-18 Pro	CMOS	1/2.3″	1.25 x 1.25	1 ms ~ 2000 ms	4912 x 3684 2456 x 1842 1228 x 922	6 18 32	42	65	1.3	DC. 18000-PRO

The CMEX-3 Pro, -5 Pro, -10 Pro and -18 Pro cameras are supplied with USB-3.0 cable, 30.0 and 30.5 mm adapters to use with stereo microscopes, 1 mm/100 (10 µm/division) calibration slide. The CMEX-5 Pro, -10 Pro and -18 Pro are supplied with a 0.5x C-mount objective. The CMEX-3 Pro is supplied with a 0.37x C-mount objective

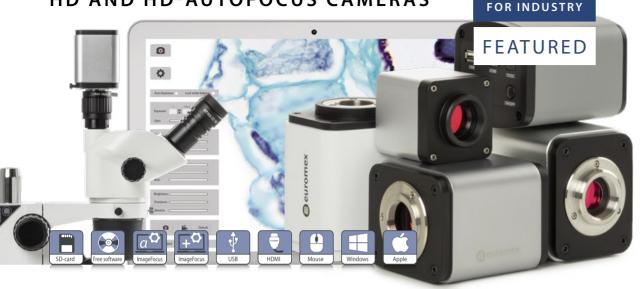
The sCMEX-3, sCMEX-6, sCMEX-20 and sCMEX-32 cameras are equipped with a scientific grade back illuminated Sony sCMOS sensor with 16 bits grayscale conversion and an outstanding 36 bits color rendering. Suitable for brightfield, darkfield and fluorescence. The sCMEX cameras are equipped with a USB-3.0 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. Also compatible with Mac OS. PC requirements: Intel Core2 2.8 GHz or higher or equivalent, 2 GB memory, USB-3.0 port, 17 inch display. Free updates can be downloaded from our website

MODELS	Number of pixels (MP)	Sensor and size (inches	Pixels size (μm)	Exposure time	Resolutions	Max. frames (p/sec)	Color rendering	Dynamic range (db)		Sensitivity V/lux-sec	Product number
sCMEX- 3	3.1	1/2.8" sCMOS	2.5 x 2.5	0.244 ~ 15000 ms	2048 x 1536 1920 x 1080	50 58	36 bits			0.15	DC.3000s
sCMEX- 6	6.3	1/1.8" sCMOS	2.5 x 2.5	0.244 ~ 15000 ms	3072 x 2048 1536 x 1024	30 38	36 bits	66.8	44.51	0.15	DC.6000s
sCMEX-20	20	1" sCMOS	2.4 x 2.4	0.264 ~ 15000 ms	5440 x 3648 2736 x 1824 1824 x 1246	15 50 60	36 bits	66.3	44.74	0.21	DC.20000s
sCMEX-32	32	1.15" sCMOS	2.3 x 2.3	0.1 ~ 15000 ms	5600 x 5600 2800 x 2800 1400 x 1400		36 bits	88	50	0.43	DC.32000s

The sCMEX cameras are supplied in a carton box with USB-2.0 cable, 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscopes, 1 mm/100 (10 µm/division) calibration slide. The DC.3000s and DC.6000s are supplied with a 0.5x objective, the DC.20000s and DC.32000s are supplied with a 1.0x adapter

HD AND HD-AUTOFOCUS CAMERAS



High definition HD1080p

and 720p CMOS color cameras with HDMI and USB-2.0/3.0 interfaces

The Euromex UHD-4K, HD-Ultra, HD-Lite, HD-Mini and HD-Autofocus cameras offer the perfect solution to modern microscopy where real-time images are needed. These HD image quality cameras can be used with biological, metallurgical or stereo microscopes

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 dedicated 11.6" HD screen, TV-HD or HD-beamer with a HDMI

input and the system is ready to go. The UHD-4K camera can also be connected to a GbE ethernet and DHCP enabled network router and has also a WiFi interface. The mouse driven built-in software of the camera enables captured images and recorded videos* to be saved on the integrated SD memory card

HIGH DEFINITION

CAMERAS

With the UHD-4K, HD-Ultra, HD-Lite and HD-Autofocus cameras, the captured images or recorded video's* can be very easily reviewed or replayed on the HD screen. The UHD-4K and HD-Ultra even offer a full range of measuring functions on live and captured images. The HD-Autofocus offers measuring functions on live image only * video function only available with UHD-4K (.mp4), HD-Ultra (.avi) and HD-Lite (.avi)cameras

COMPUTER CONTROLLED MODE

Users who want more camera controls and more functions can also connect the camera to a computer and benefit from the extensive functions of the Euromex ImageFocus software. It runs

HIGHLIGHTS

- UHD 2160p, HD 1080p or 720p high definition color cameras
- Real-time images directly on TV, monitor or beamer
- Stand-alone or computer controlled mode
- Built-in mouse-driven software and SD memory card
- C-mount interface
- HDMI, USB-2.0/3.0, GbE and WiFi interface(s)
- Autofocus model available
- Compatible with ImageFocus software

on Windows 7, 8 and 10, both 32 and 64 bits. 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



VC.3036-HDS on stereo microscope

as histogram adjustments and combining captured fluorescence images - are also available with the ImageFocus software

PACKAGE CONTENT

MODELS	UHD-4K	HD-Ultra	HD-Lite	HD-Mini	HD-Mini +HDS	HD-Autofocus	HD-Pro
Software	ImageFocus Alpha	ImageFocus Plus	ImageFocus Plus				ImageFocus Alpha
Software languages	15 (2)	13(1)	13 (1)			15 ⁽²⁾	15 ⁽²⁾
Compatible	Win 7, 8 and 10 Mac OS	Win 7, 8 and 10 Mac OS	Win 7, 8 and 10 Mac OS				Win 7, 8 and 10
C-mount with objective	0.5x	0.37x	0.45x	0.5x	0.5x	0.5x	0.37x
Interface(s)	•	•	•	Only HDMI	Only HDMI	•	•
30 and 30.5 mm adapters	•	•	•	•	•	•	•
SD card	16 GB	16 GB	8 GB	4 GB	4 GB	16 GB	16 GB
Cailbration slide 10mm/100	•	•	•	•	•	•	•
External power supply	12V 1A	12V 2A	12V 2A	12V 1A	12V 1A	12V 1A	12V 1A
Dimensions (w x d x h)	78 x 65 x 98	80 x 70 x 90	80 x 70 x 90	51ø x 60	50 x 50 x 60	81 x 65 x 78	81 x 65 x 78
Weight (grams)	555	440	280	50	130	500	500
Product number	VC.3040	VC.3036	VC.3031	VC.3023		VC.3034	VC.3038
With 11.6" HD screen	VC.3040-HDS	VC.3036-HDS	VC.3031-HDS		VC.3024-HDS	VC.3034-HDS	VC.3038-HDS

⁽¹⁾ English, Chinese Simplified, Traditional Chinese, Thai, German, Italian, French, Korean, Japanese, Russian, Polish and Portugese

⁽²⁾ English, Catalan, Indonesian, Polish, Chinese Simplified, Traditional Chinese, Thai, German, Italian, French, Korean, Japanese, Russian, Turkish, Spanish

ALL HD-CAMERAS

MODELS	UHD-4K	HD-Ultra	HD-Lite	HD-Mini	HD-Mini + HDS	HD-Autofocus	HD-Pro HDMI
Sensor	Sony 4K	Sony	Aptina	Sony	Sony	Sony	Sony
Format	1/1.8", HDTV 2160p	1/2.8", HDTV 1080p	1/2.5", HDTV 1080p	1/2.8", HDTV 1080p	1/2.8", HDTV 1080p	1/1.9", HDTV 1080p	1/2.8", HDTV 1080p
Pixels	3840 x 2160 ⁽¹⁾ HDMI 60 fps USB 30 fps	3264 x 1836 ⁽¹⁾ 1920 x 1080 ⁽²⁾ HDMI 60 fps USB 30 fps	2592 x 1944 ⁽¹⁾ 1920 x 1080 ⁽²⁾ HDMI 15 fps, USB 15fps	1920 x 1080 ⁽¹⁾ 1920 x 1080 ⁽²⁾ HDMI 60 fps	1920 x 1080 ⁽¹⁾ 1920 x 1080 ⁽²⁾ HDMI 60 fps	1920 x 1080 ⁽¹⁾ HDMI 60 fps	1920 x 1080 ⁽¹⁾ 1920 x 1080 ⁽²⁾ HDMI 60 fps, USB 26 fps
Pixel size	2.0 x 2.0 (μm)	2.8 x 2.8 (μm)	2.2 x 2.2 (μm)	2.9 x 2.9 (μm)	2.9 x 2.9 (μm)	3.75 x 3.75 (μm)	2.9 x 2.9 (μm)
Video recording	2160p	1080p	1080p	1080p	1080p	1080p	1080p
Video output	HDMI, USB-3.0 ⁽⁵⁾ , GbE ethernet, WiFi ⁽⁵⁾	HDMI, USB-2.0	HDMI, USB-2.0	HDMI	HDMI	HDMI, USB-C ⁽³⁾	HDMI, USB-2.0
Scan mode	Progressive	Progressive	Progressive	Progressive	Progressive	Progressive	Progressive
Exposure	Automatic/ manual	Automatic/ manual	Automatic/ manual	Automatic/ manual	Automatic/ manual	Automatic/ manual	Automatic/ manual
White balance	Automatic/ manual/ROI	Automatic/ manual	Automatic/ manual	Automatic/ manual	Automatic/ manual	Automatic/ manual	Automatic/ manual/ROI
Sensitivity lux-sec	505 mV	510 mV	1 V	1300 mV	1300 mV	1.12 V (1/30s)	1.3 V (1/30s)
Color rendering (bits)	36	36	24	12	12	24	24
Signal/Noise (db)	44	55	40.5	42	42	50	38
Dynamic (db)		69	60	69	69	65	66
Storage	16 GB SD card (max. 32 GB)	16 GB SD card (max. 32 GB)	8 GB SD card (max. 32 GB)	4 GB SD card (max.8 GB)	4 GB SD card (max.8 GB)	16 GB SD card (max. 32 GB)	16 GB SD card (max. 32 GB)
Camera buttons	on/off	on/off	on/off			on/off	on/off
Mounting	C-mount	C-mount	C-mount	C-mount	C-mount	C-mount	C-mount
External power supply	100-240 Vac to 12Vdc/1A	100-240 Vac to 12Vdc/2A	100-240 Vac to 12Vdc/2A	100-240 Vac to 12Vdc/1A	100-240 Vac to 12Vdc/1A	100-240 Vac to 12Vdc/2A	100-240 Vac to 12Vdc/2A
Relative humidity	10-60 %	45-85 %	45-85 %	30-80 %	30-80 %	45-85%	30~80%
Temperature Operation Storage	-10 – 50° C -20 to 60° C	0 – 60° C -20 to 70° C	0 – 60° C -20 to 70° C	-10 – 50° C -20 to 60° C	-10 – 50° C -20 to 60° C	–10-40° C -20°C to 60° C	-10~ 50° C -20°C to 60° C
Product number	VC.3040 VC.3040-HDS (4)	VC.3036 VC.3036-HDS (4)	VC.3031 VC.3031-HDS (4)	VC.3023	 VC.3024-HDS ⁽⁴⁾	VC.3034 VC.3034-HDS (4)	VC.3038 VC.3038-HDS (4)

(1) capture mode (2) live view (3) USB-2.0 compatible (4) model with attached high definition screen (5) available from November 2019

BUILT-IN SOFTWARE FEATURES (HDMI MODE)

MODELS	UHD-4K	HD-Ultra	HD-Lite	HD-Mini	HD-Mini + HDS	HD-Autofocus	HD-Pro HDMI
Image capturing (JPEG)	3840 x 2160	3261 x 1840	2592 x 1944	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Video recording	3840 x 2160 MP4	1920 x 1080 AVI	1920 x 1080 AVI	1920 x 1080 MP4	1920 x 1080 MP4	1920 x 1080 ASF	1920 x 1080 ASF
Browse saved images	•	•	•	•	•	•	•
Browse saved video's	•	•	•	•	•	no	•
SD card storage	16 GB	16 GB	8 GB	4 GB	4 GB	16 GB	16 GB
Mouse driven	•	•	•	•	•	•	•
Auto exposure	•	•	•	•	•	•	•
Exposure time	0.04 ~ 1000 ms	0.001s ~ 10 s	0.001s ~ 10 s	0.01 ~ 1000 ms	0.01 ~ 1000 ms	0.06 ~ 918 ms	0.036 ~ 8000 ms
Gain	•	•	•	•	•	•	•
RGB & white balance	•	•	•	•	•	•	•
Gamma	•	•	•	•	•	•	•
Sharpness	•	•	•	•	•	•	•
Noise reduction	3D algorithm	3D algorithm	3D algorithm	3D algorithm	3D algorithm	Standard	Standard
Saturation & contrast	•	•	•	•	•	•	•
Horiz. & vert. flip	•	•	•	•	•	•	•
Grids	cross/multi	cross/multi	multi	multi	multi	multi	User defined
Autofocus						•	
Compare function	•	•	•			•	•
Measurement functions	captured & live images	captured & live images		captured & live images	captured & live images	live image only	captured & live images
Calibration table	•	•				•	•
Line & free curve	•	•				•	•
Polygon & rectangle	•	•				•	•
Angle	•	•				•	•
Circle 3 points	•	•				•	•
Circle radius	•	•				•	•
Export function	CSV	CSV, Txt				CSV	CSV
Languages	10 (4)	9 ⁽³⁾	9 (3)	10 (4)	10 (4)	10 (4)	10 (4)
Product number	VC.3040 VC.3040-HDS	VC.3036 VC.3036-HDS	VC.3031 VC.3031-HDS	VC.3023	 VC.3024-HDS	VC.3034 VC.3034-HDS	VC.3038 VC.3038-HDS

HDMI mode



⁽³⁾ English, Chinese Simplified, Traditional Chinese, German, Italian, French, Korean, Japanese, Spanish

⁽⁴⁾ English, Chinese Simplified, Traditional Chinese, Thai, German, Italian, French, Korean, Japanese, Russian



Cooled color camera

with CCD or CMOS sensor

The Euromex 6 and 20 Megapixel Peltier cooled cameras are equipped with Peltier cooling elements that allow the camera to be used for fluorescence and other low light applications. These advanced and premium models are supplied with a USB-3.0 interface

All cameras are supplied with ImageFocus Alpha software. The software has specific functions for fluorescence like combining capture fluorescence images. Furthermore it allows capturing of images and videos, doing measurements and annotations, generating reports, live image stitching etc. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations. A Mac OS version is also supplied (with a few differences in features)

MODELS	Number of pixels (MP)	Sensor	Pixel size (μm)	Resolutions	Max. frames (p/sec)	USB-3	Dynamic range (db)	S/N Ratio	Sensitivity @ 1/30 sec	Peltier cooling
DC.6000i	6	1" CCD	4.54 x 4.54	2748 x 2200 2748 x 1092	7.5 14	•	62.34	41.6	880 mV	•
DC.20000i	20	1" CMOS	2.4 x 2.4	5440 x 3648 4096 x 2160 2736 x 1824 1824 x 1216	5 10 15 30	•	66.3	41.74	462 mV	٠

about

field of view

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

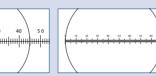
CALCULATING FOV OF AN EYEPIECE

The FOV through an eyepiece is equal to:

Field Number **Object Magnification**

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

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



Micrometer stage 1 mm/100

Micrometer stage 1 mm/100

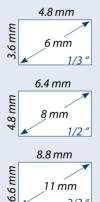
900 nm FOV with 10x/18

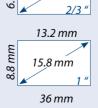
eyepiece and S20x objective

FIELD OF VIEW WITH CAMERA

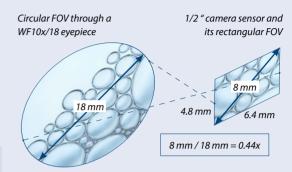
Most commercially available microscope digital cameras use 1/3, 1/2- or 2/3-inch rectangular sensors. A few will use a 1 inch camera sensor

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





EYEPIECE VERSUS CAMERA FOV



TECHNICAL

FACTS

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

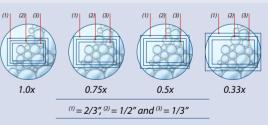
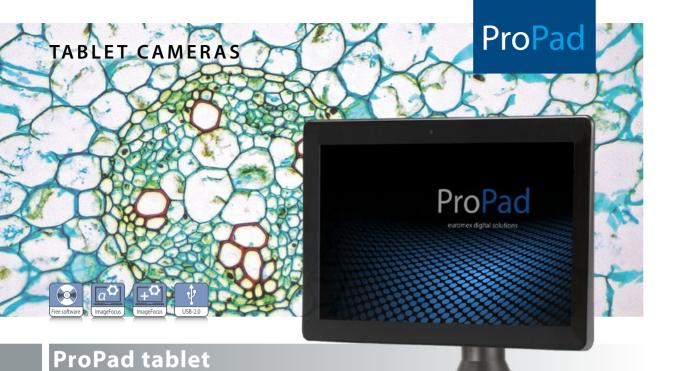


Figure: different camera sensor sizes (2/3, 1/2, 1/3 inch) with different "demagnifying" lenses (C-mount photo-adapters) 0.33x, 0.50x, 0,75x and 1.0x

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

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



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

with microscope camera and

keyboard-docking station

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

HIGHLIGHTS

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



SPECIFICATIONS

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

Specifications can be changed by Euromex microscopen by without prior notice

MODELS	Camera (MP)	Sensor size	Resolution	Pixels size (µm)	ADC	Color rendering	Dynamic (db)	Sensitivity V/lux-sec	Interface	Product number
ProPad-2	2.1	1/2.9"	1920 x 1080	2.8 x 2.8	12 bits	24 bits		0.51	1 2.0	PP.2000f
ProPad-5	5.1	1/2.8"	2592 x 1920	2.0 x 2.0	12 bits	24 bits	72 db	2.0	2.0	PP.5000f
ProPad-12	12.0	1/2.3"	4072 x 3176	1.33 x 1.33	8 bits	24 bits	60 db		2.0	PP.12000f
ProPad-WiFi	5.0	1/2.5"	1280 x 720	2.2 x 2.2	12 bits	24 bits	61 db	1.0	#	PP.5000-WiFi

All ProPad models are supplied with a C-mount objective that fits the standard 23.2 mm trinocular tubes. The PP.2000f, PP.5000f and PP.12000f are supplied with ImageFocus Plus software. The PP.5000-WiFi is supplied with ImageFocus Alpha. Only suitable for straight photo tubes

IMAGE FOCUS PLUS			
DC.2000f	VC.3036		
DC.5000f	VC.3031		
DC.12000f			

IMAGE FOCUS ALPHA			
DC.3000-Pro	DC.5000-WiFi		
DC.5000-Pro	DC.3000s		
DC.10000-Pro	DC.6000s		
DC.18000-Pro	DC.20000s		
VC.3038			

IMAGE STITCHING

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

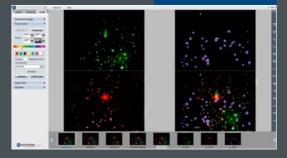
EXTENDED DEPTH OF FOCUS

"The extended depth of focus" function in the ImageFocus Alpha software or "stacking software, allows to combine a number of digital images of a object, focused at different focus planes, into one final image with much greater depth of field (see illustration below)





FREE UPDATES **AVAILABLE ON EUROMEX.COM**





ImageFocus 4

software

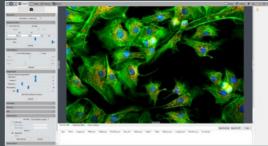
ImageFocus 4 has a wide range of functions:

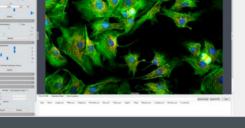
- Measurements can be done on still and live image
- Images can be saved in .jpg, .tif, .or .bmp formats as well as .avi format videos
- The brightness, contrast and saturation of captured images can be adjusted
- Camera parameters for exposure time, white balance and color control are easily accessible
- The software also has specific functions for fluorescence such as combining captured fluorescence images
- Compatible with Windows 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

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













ImageFocus Plus

software

ImageFocus Plus has a wide range of functions:

- Measurements on still and live image
- Extended depth of focus and stitching on still and live image (only with VC.3036 and VC.3031 cameras)
- Images can be saved in .jpg, .tif, .bmp or .dicom formats as well as .avi and mpeg-4 format videos • The brightness, contrast and saturation of captured
- 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 version is also available
- PC requirements: Intel Core2 2.8 GHz or higher or equivalent, 2 GB memory or more, 17" screen

ImageFocus Plus software features English, German, French, Dutch, Spanish and Russian



ImageFocus Alpha

software

ImageFocus Alpha has a wide range of functions:

- Measuring, segmentation & counting, stichting of images, extended depth of focus, etc
- Images can be saved in .jpg, .tif, .bmp or .dicom formats as well as .avi format videos
- 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 version is also supplied (with a few differences in features)
- PC requirements: Intel Core2 2.8 GHz or higher or equivalent, 2GB memory or more, 17" screen

One language can be selected during initial installation of the ImageFocus Alpha software English, Catalan, French, German, Indonesian, Italian, Japanese, Korean, Polish, Russian, Simplified Chinese, Spanish, Thai, Traditional Chinese, Turkish









microscope and camera

Most Euromex cameras are supplied with a photo port c-mount adapter to connected it to any Euromex trinocular microscope*. Monocular microscopes require the removal of the eyepiece so that the camera can be fitted into the 23.2 mm tube. Binocular microscopes require the removal of an eyepiece plus an additional mechanical adapter * Except for the Oxion, Oxion Inverso and Delphi-X Inverso series. These microscopes need an additional adapter. See next page

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

MODELS	1/3 inch camera	1/2 inch camera	2/3 inch camera	1 inch camera
Leica (1)	AE.9835-L (0.35x)	AE.9855-L (0.55x)	AE.9870-L (0.70x)	AE.9810-L (1x) AE.9812-L (1.2x)
Olympus (2)	AE.9835-O (0.35x)	AE.9850-O (0.50x)	AE.9863-O (0.63x) AE.9880-O (0.80x)	AE.9810-O (1x) AE.9812-O (1.2x)
Zeiss (3)	AE.9835-Z (0.35x)	AE.9850-Z (0.50x)	AE.9865-Z (0.65x)	AE.9810-Z (1x) AE.9812-Z (1.2x)
Zeiss ZA (4)		AE.9850-ZA (0.50x)	AE.9863-ZA (0.63x) AE.9880-ZA (0.80x)	AE.9810-ZA (1x) AE.9812-ZA (1.2x)
Nikon (5)	AE.9835-N (0.35x)	AE.9855-N (0.55x)	AE.9870-N (0.70x) AE.9880-N (0.80x)	AE.9810-N (1x) AE.9812-N (1.2x)

⁽¹⁾ Leica DM, 35 mm to 25.4 mm C-mount, stainless steel



23.2 MM PHOTO PORT C-MOUNT ADAPTERS

Suitable for all Ø 23.2 mm (photo) tubes

DC.1324	C-mount adapter with 0.45x objective for 1/2" camera
DC 1252	C mount adapter with 0.27v abjective fixed focal

DC.1353 C-mount adapter with 0.37x objective, fixed focal length and short barrel*. For 1/3" camera

DC.1355 C-mount adapter with 0.50x objective, fixed focal length and short barrel*. For 1/2" camera

DC.1357 C-mount adapter with 0.75x objective, fixed focal length and short barrel*. For 2/3" camera

DC.1359 C-mount adapter with 1x lens, fixed focal length and short barrel, for standard 23.2 mm tube and 1 inch camera

DC.1330 30 mm to 23.2 mm conversion adapters

DC.1335 30.5 mm to 23.2 mm conversion adapters

DIGITAL SLR ADAPTERS

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

AE.5130 Universal SLR camera adapter for 23.2 mm tube with built-in 2x magnification lens. Needs T2 adapter

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

Other T2 adapters on request







PHOTO PORT ADAPTERS

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

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

⁽²⁾ Olympus CX, CX2, BX, BX2, IX, MX, GX, SZX, STM, 42 mm to 25.4 mm C-mount, anodized aluminum

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

⁽⁴⁾ Zeiss 60N-C, 60N-T2 photo ports of Axio examiner, Axio Imager, Axio Lab, Axio Observer, Axio Scope, Axio Zoom, Stemy 508 and SteREO Discovery

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

^{*} for increased light efficiency

accessories for microscopy



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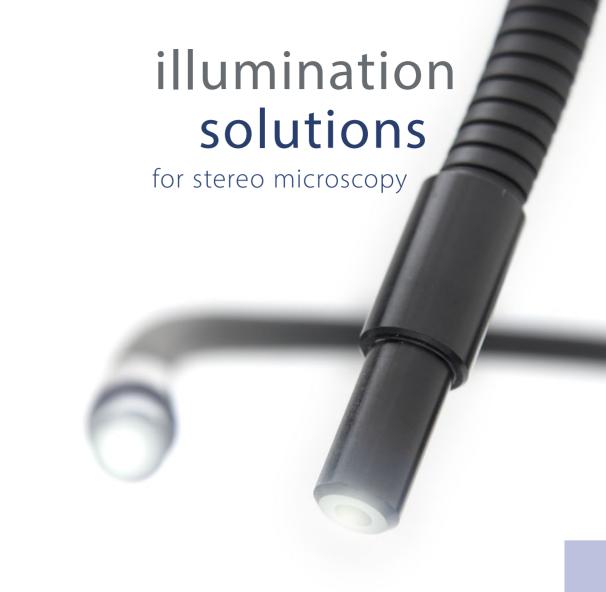
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accessories



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

The major advantage of LED illumination is the constant light spectrum at all light intensity levels. These light sources are suitable for all kinds of applications in industry, life sciences and materials sciences



ILLUMINATION SOLUTIONS

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



Illumination solutions

MULTIFUNCTIONAL 150 W HALOGEN OR 30 W POWER-LED • COLD LIGHT SOURCE

A powerful multifunctional 150 W halogen (LE.5211) and 30 W PowerLED cold light source is ideal for the advanced requirements of numerous applications in life and materials science. The intensity is adjustable and has a built-in forced air cooling. The LE.5211 and LE.5211-LED light sources require a light fiber conductor such as the single LE.5213, dual LE.5214, triple LE.5215 or the LE.5239 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.*
Color temperature	3,000 K	6,500 K
Operating voltage	100 and 240 V AC / 12 V DC (50/60 Hz)	100-240 V AC / 12 V DC (50/60 Hz)
Dimensions	(h) 150 x (w) 150 x (d) 230 mm	150 (h) x 150 (w) x 230 mm (d)
Weight	3,9 kg	2.8 kg
Model	LE.5211	LE.5211-LED

^{*} 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 kinds of applications in Life and Materials sciences, various industrial applications and for stereo microscopy



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

^{*} with LE.5214 dual arm light conductor

COMPACT SINGLE 20 W LIGHT SOURCE



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

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

ECONOMICAL AND COMPACT DUAL 3 W LED · LIGHT SOURCE



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

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

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



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

COMPACT 72 LEDS • LE.1974

Compact 20,000 lux LED ring light source



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

PROFESSIONAL HIGH POWER LED RING LIGHT SOURCES • LE.1980/ LE.1981

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



MODELS	Number of LEDs	Color temperature	Illuminance	For mounting diameters	Internal/external diameter	Required power supply/ controller
LE.1980	48	6,000 K	17,000 lux	from 30 to 66 mm	45/90 mm	LE.1992 Analog controller
LE.1981	48	6,000 K	17,000 lux	from 30 to 66 mm	45/90 mm	LE.1993 Digital segments controller

PROFESSIONAL HIGH POWERLED RING LIGHT SOURCES LE.1990/ LE.1991

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



MODELS	Number of LEDs	Color temperature	Illuminance	For mounting diameters	Internal/external diameter	Required power supply/ controller
LE.1990	72	6,000 K	21,000 lux	from 40 to 66 mm	60/110 mm	LE.1992 Analog controller
LE.1991	72	6,000 K	21,000 lux	from 40 to 66 mm	60/110 mm	LE.1993 Digital segments controller

ILLUMINATION STATION LE.5212

Light source station with multiple power supply connections for two self-sustaining gooseneck-type guides, one ring light and one transmitted stage illumination. For stand-alone usage or mounted on stereo microscope pillar stands with diameters up to 44 mm or with 35- and 25-mm pole mounting adapter rings

- Each self-sustaining gooseneck-type LED guide is equipped with a 3-lens focusing head and has a length of 56 cm
- White 6,500 K LED ring light generating with 60 LEDs up to 24,000 Lux. Mounting diameters from 21 to 61 mm
- Transmitted light stage illumination with a 6,500 K white LED generating up to 8,000 Lux with 42 LEDs. Stage diameter 94.5 and 15 mm thick



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.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.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.1980 AND LE.1981

LE.1984-05	0 Fresnel lens, WD from 40 to 80 mm
LE.1984-100	Fresnel lens, WD from 80 to 150 mm
LE.1984-20	0 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.1994-05	LE.1994-050 Fresnel lens, WD from 40 to 80mm			
LE.1994-10	0 Fresnel lens, WD from 80 to 150 mm			
LE.1994-200 Fresnel lens, WD from 150 to 240 mm				
LE.1994	Diffusing filter, for WD			
	from 40 to 300 mm			
LE.1995	Glass protection window			
LE.1997	Polarizing filter			
LE.1998	Rotatable polarizing filter			
LE.1992	100-230 V power supply analog controller.			
	Intensity adjustable from 0-100%			
LE.1993	100-230 V power supply digital segment			
	controller. Intensity adjustable from 0-100%			

FOR LE.5212

LE.5260	Interchangeable self-sustaining gooseneck-type
	guide with a white 6,500 K high-power LED for
	NZ.9018, LE.5207 or LE.5212, 1 pc (A)
LE.5261	Interchangeable self-sustaining gooseneck-type
	guide with a 365 nm high-power UV-LED for
	NZ.9018, LE.5207 or LE.5212, 1 pc (B)
LE.5262	Interchangeable self-sustaining gooseneck-type
	guide with a 395 nm high-power Violet-LED for
	NZ.9018, LE.5207 or LE.5212, 1 pc (C)
LE.5263	Interchangeable self-sustaining gooseneck-type
	guide with a 420 nm high-power Violet-LED for
	NZ.9018, LE.5207 or LE.5212, 1 pc (D)
LE.5264	Polarization filter, screw on type for
	Interchangeable self-sustaining gooseneck-type
	guides for NZ.9018, LE.5207 or LE.5212, 1 pc

FOR LE.1863

SL.1864 Spare fluorescence lamp

WD = working distance

PB.5069

PREPARATION ACCESSORIES

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



dissection instruments

PB.5050	Dissecting needle, straight tip
	with plastic handle
PB.5054	Dissecting needle, lancet-shaped
	with plastic handle
PB.5056	Blunt-pointed probe, Ø 2 mm,
	length 140 mm
DR 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

Dissecting forceps with sharp tips, PB.5067

length 13 cm

Dissecting forceps with finely curved sharp tips, length 13 cm

PB.5077 Cover glass forceps, length 11 cm



SCISSORS AND BLADES

Dressing scissors with blunt/sharp tip, length 14 cm PB.5084 Dissecting scissors, sharp tips, length 11 cm

PB.5092 Scalpel with blunt tip, length 15 cm

Scalpel handle no. 4 PB.5094

(for blades PB.5095 and PB.5096)

PB.5095 Scalpel blades with sharp tip, 5 pieces per set PB.5096 Scalpel blades with blunt tip, 5 pieces per set

Strop, double sided for stropping of scalpels, microtome knifes. Includes stropping paste

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

PB.5106 Microtome knife plano/concave.

PB.5103

With fixed handle, length 17 cm



PB.5084

HANDHELD MICROTOMES

Cylinder microtome. Circular stage Ø 70 mm with flat black glass top. Height adjustable with micrometer division 0.01 mm. Complete with plano-concave knife PB.5106 and

wooden cabinet

Cylinder microtome. Identical to MT.5500 but MT.5501 without knife and wooden cabinet

MT.5503 Handheld microtome.

> Box type with table clamp and razor blade holder. Thickness adjustment by 0.025 mm intervals. Complete with wooden cabinet





dissection kits

4-PC DISSECTION KIT **PB.5110 IN IMITATION LEATHER CASE**

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

6-PC DISSECTION KIT PB.5111 IN PLASTIC CASE

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



10-PC DISSECTION KIT PB.5112 IN IMITATION LEATHER CASE

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



9-PC DISSECTION KIT PB.5114 IN WOODEN CASE

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



6-PC DISSECTION KIT FOR KOI FISH PB.5115 IN PLASTIC CASE

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



PROFESSIONAL SLIDE PREPARATION KIT PB.5125 IN PLASTIC DELUXE CASE

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





MICROSCOPE PREPARED SLIDES



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

sets with 25 slides for education

histology, zoology and botany set

PB.5211 FOR EDUCATION

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

HISTOLOGY

SH.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 Daphnia sp., water flea, w.m Musca domestica, house fly, mouth parts

SZ.1719 Musca domestica, house fly, wing w.m

Musca domestica, house fly, leg with clinging pads

BOTANY

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

histology, zoology and botany set

PB. 5212 FOR EDUCATION

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

HISTOLOGY

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

SH.1001 Loose connective tissue, rabbit

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

BOTANY

SB.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

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

SB.2105 Hibiscus, young stem, c.s

SB.2110 Cucurbita, pumpkin, stem, l.s

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

histology, zoology and botany set

PB. 5213 FOR EDUCATION

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

HISTOLOGY

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

ZOOLOGY

SZ.1535	Euglena virides, a flagellate with eyespot		
SZ.1586	Hydra, w.m of tentacles		
SZ.1620	Schistosoma Japonicum, female, w.m		

SZ.1705 Apis mellifica, honey bee, posterior leg, w.m

SZ.1733 Pieres brassicae, cabbage-white butterfly, part of wing

SZ.1738 Locusta, grasshopper, mouth parts, w.m.

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

SZ.1877 Rana sp, frog, blood smear

BOTANY

SB.2011	Zea mays, corn root tip with hairs, I.s
SB.2020	Helianthus, sunflower, old root, c.s

SB.2025 Monocot/dicot plant roots, zea mays/helantius, c.s

SB.2040 Solanum tuberosum, potato, starch grains

SB.2075 Tilia, lime tree, one year stem, c.s

SB.2091 Hydrilla stem, c.s

SB.2100 Pelargonium hortorum, geranium, stem c.s

SB.2337 Mnium, antheridial branch, l.s

SB.2339 Mnium, archegonial branch, l.s

SB.2373 Coprinus, ink caps mushroom, section of pleus

SB.2380 Spirogyra sp. in conjugation

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

histology, zoology and botany set

PB. 5214 FOR EDUCATION

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

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

HISTOLOGY OF MAMMALS

SH.1060	Tendon I.s (Dense connective tissue), dog
SH.1075	Skin section with sweat gland, human

SH.1330 Testis rabbit, c.s

SH.1340 Ovary rabbit with developed eggs

SH.1360 Sperm, human, smear

SH.1490 Retina, rabbit, sec

ZOOLOGY

SZ.1522 Paramecium conjugation w.m

SZ.1524 Paramecium in fission, w.m

SZ.1540 Trachelomonas, a free swimming type euglena

SZ.1585 Hydra with endoderm + ectoderm, c.s

SZ.1710 Apis mellifica - honey bee compound eye, w.m

SZ.1720 Culex pipiens - house mosquito, larva w.m

SZ.1724 Giant chromosomes of salivary gland, w.m

SZ.1810 Mya arenaria, clam gill, c.s

SZ.1860 Lancelet, Section through gonads and gills, c.s

BOTANY

SB.2015 Ranunculus, buttercup, root c.s

SB.2076 Tilia, lime tree, 1, 2 & 3 year stem, c.s on one slide

SB.2080 Pinus - pine tree, stem l.s

SB.2140 Triticum, wheat, leaf, c.s

SB.2150 Monocot/dicot leaves,zea mays/

ligustrum lucidum, c.s

SB.2230 Pinus, pine tree, male (cone) globose fruit l.s

SB.2232 Pinus, pine tree, female (cone) globose fruit l.s

SB.2315 Fern, prothallium w. young sporophyte w.m

SB.2320 Cyrtomium, fern, leaf with sporangia

SB.2384 Volvox sp. w.m

histology, zoology and botany set

PB. 5215 FOR EDUCATION

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

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

HISTOLOGY

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

70010GY

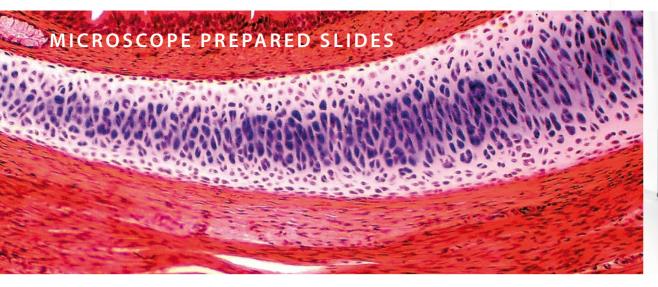
LOUL	2001001	
SZ.1610	Planaria, flat worm, injected intestinal tube, w.m	
SZ.1636	Ascaris megalocephala, horse roundworm,	
	mitosis eggs	
SZ.1760	Ctenocephalus canis, dog flea, w.m	
SZ.1770	Tetranychus, red spider mite, w.m	
SZ.1930	Bird, wing and down feather, section	
SZ.1940	Chicken, embryo 48 hours, sagittal section	

BOTANY

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

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

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





sets with 23 slides for education

mammal histology set

PB.5221 SET FOR EDUCATION

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

EPHITELIUM AND CONNECTIVE TISSUES

SH.1001 Loose connective tissue, rabbit SH.1005 Hyaline cartilage, rabbit, section

SH.1011 Hard bone grinding, human, section

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

SH.1060 Tendon, dog, l.s

SH.1070 Squamous epithelium, human, isolated cells

from mouth, smear

SH.1072 Skin section through hair follicle, human

SH.1078 Stratified flat epithelium, dog, section

RESPIRATORY, BLOOD CIRCULATION AND ENDOCRINE SYSTEM

SH.1120 Trachea rabbit, c.s

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

SH.1150 Blood smear, human, Giemsa stained

DIGESTIVE SYSTEM

SH.1210 Stomach wall, dog, section

SH.1230 Small intestine, dog, c.s

SH.1250 Liver, pig, section

URINARY AND GENITAL SYSTEM

SH.1310 Injected kidney, rabbit, sec

SH.1330 Testis, rabbit, c.s

SH.1340 Ovary with developed eggs, rabbit

SH.1376 Human chromosomes in blood, female

NERVOUS SYSTEM AND SENSORY ORGANS

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

SH.1430 Cerebrum section, dog

SH.1450 Spinal cord, rabbit, c.s

SH.1470 Taste buds, rabbit, l.s

SH.1490 Retina, rabbit, sec

mammal histology set

PB.5222 SET FOR EDUCATION

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

EPHITELIUM AND CONNECTIVE TISSUES

SH.1006 Elastic cartilage, rabbit

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

SH.1040 Smooth muscle, teased preparation, rabbit,

l.s+c.s

SH.1043 Cardiac muscle, dog, l.s

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

SH.1075 Skin section with sweat gland, human

SH.1080 Ciliated epithelium, trachea, rabbit

RESPIRATORY, BLOOD CIRCULATION AND ENDOCRINE SYSTEM

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

SH.1140 Pancreas, rabbit, section

SH.1160 Lymph node, rabbit, section

SH.1170 Thyroid gland, rabbit, section

SH.1180 Adrenal gland, rabbit, section

DIGESTIVE SYSTEM

SH.1220 Oesophagus dog, c.s

SH.1235 Large intestine, dog, c.s

SH.1260 Gall bladder, dog, section

SH.1280 Golgi apparatus in Basal spinal ganglion, dog

URINARY AND GENITAL SYSTEM

SH.1315 Kidney, rat, sec. cortex & medulla

SH.1360 Sperm, human, smear

SH.1375 Human chromosomes in blood, male

SZ.1724 Fruit fly, drosophila, giant chromosomes of

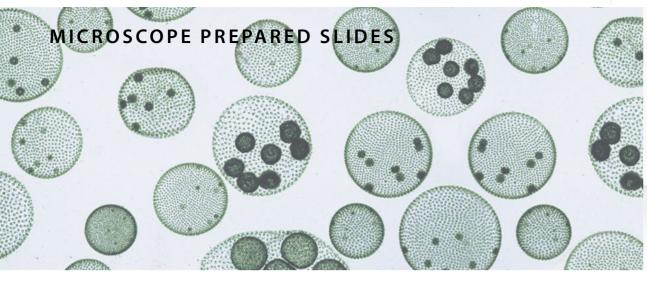
salivary gland, w.m

NERVOUS SYSTEM AN SENSORY ORGANS

SH.1415 Motor nerve cells with end plates, rabbit, w.m.

SH.1420 Cerebellum section, dog

SH.1480 Eyeball section, rabbit, sagittal section





set for hobby 10 slides

zoology and botany set

PB.5204 SET FOR HOBBY

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

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

ZOOLOGY

SH.1040 Smooth muscle, teased preparation, rabbit, I.sand c.s

SH.1110 Lung with injected blood vessels, rabbit, c.s **SZ.1708** Apis mellifica, honey bee, mouth parts

SZ.1733 Pieres brassicae, cabbage-white butterfly, part of wing

SZ.1877 Rana sp, frog, blood smear

SB.2015 Ranunculus, buttercup, root, c.s

BOTANY

SB.2160 Lilium, lily leaf, c.s

SB.2222 Capsella, shepherds' purse, ovary w. embryo in cotyledon stadium, l.s

SB.2374 Aspergillus, brown mold, w.m

SB.2384 Volvox sp., w.m

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

set for hobby 25 slides

slides of histology, zoology and botany

PB.5218 SET FOR HOBBY

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

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

HISTOLOGY OF HUMAN AND MAMMALS

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

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

ZOOLOGY

SZ.1520 Paramecium, w.m.

SZ.1535 Euglena virides, a flagellate with eyespot **SZ.1580** Hydra with bud, w.m **SZ.1630** Taenia, tapeworm cattle, mature proglottid, w.m **SZ.1635** Ascaris megalocephala, horse roundworm, female and male, c.s **SZ.1640** Lumbricus, earthworm, c.s **SZ.1655** Daphnia sp., water flea, w.m **SZ.1705** Apis mellifica, honey bee, posterior leg, w.m **SZ.1710** Apis mellifica, honey bee compound eye, c.s **SZ.1719** Musca domestica, house fly, wing w.m **SZ.1722** Culex pipiens, house mosquito, female,

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

mouth parts



individual euroslides

prepared slides

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

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



HOW TO ORDER INDIVIDUAL EUROSLIDES

individual euroslides for histology

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

EPHITELIUM AND CONNECTIVE TISSUES

SH.1001 Loose connective tissue, rabbit **SH.1005** Hyaline cartilage rabbit, section

SH.1006 Elastic cartilage, rabbit

SH.1011 Hard bone grinding, human, section

SH.1012 Hard bone grinding of rabbit, tooth, decalcium

SH.1040 Smooth muscle, teased preparation, rabbit. Ls and c.s

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

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

SH.1060 Tendon, dog, l.s

SH.1072 Skin section through hair follicle, human

SH.1078 Stratified flat epithelium, dog, section

SH.1080 Ciliated epithelium, trachea, rabbit

RESPIRATORY, BLOOD CIRCULATION AND ENDOCRINE SYSTEM

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

SH.1120 Trachea, rabbit, c.s

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

SH.1140 Pancreas, rabbit, section

SH.1150 Blood smear, human, Giemsa stained

SH.1160 Lymph node, rabbit, section

DIGESTIVE SYSTEM

SH.1220 Oesophagus, dog, c.s SH.1230 Small intestine, dog, c.s

SH.1250 Liver, pig, section

URINARY AND GENITAL SYSTEM

SH.1310 Injected kidney, rabbit, section

SH.1330 Testis, rabbit, c.s

SH.1340 Ovary with developed eggs, rabbit

SH.1360 Sperm, human, smear

NERVOUS SYSTEM

AND SENSORY ORGANS

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

SH.1415 Motor nerve cells with end plates, rabbit, w.m

SH.1420 Cerebellum section, dog

SH.1450 Spinal cord, rabbit, c.s

SH.1470 Taste buds, rabbit, l.s

SH.1490 Retina, rabbit, section

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



individual euroslides for zoology

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

PROTOZOA

SZ.1510	Amoeba proteus, w.m
SZ.1520	Paramecium, w.m
SZ.1522	Paramecium in conjugation w.m
SZ.1535	Euglena virides, a flagellate with eyespot
\$7,1540	Trachelomonas, a free swimming type eugle

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

32.1/24	Drosophila, fruit fly, giant chromosomes
	of salivary gland, w.m
C7 1720	Diaras brassisaa sabbassa usbita buttarfi

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

52.1/33	Pieres brassicae, cabbage-white butterny, part of
67 4730	the state of the second st

SZ.1738	Locusta, grasshopper, mouth parts, w.r
SZ.1760	Ctenocephalus canis, dog flea, w.m

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

HOW TO ORDER INDIVIDUAL EUROSLIDES

- Minimum purchase quantity is 10 pieces of the same slide
- The individual slides always have to be ordered together with a storage box (e.g. PB.5181 for 25 slides)

individual euroslides for botany

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

ROOTS

SB.2009	Allium cepa, onion, mitosis root tip, l.s
SB.2015	Ranunculus, buttercup, root, c.s
SB.2020	Helianthus, sunflower, old root, c.s
SB.2025	Monocot/dicot plant roots, zea mays/helantius, c.s
SB.2040	Solanum tuberosum, potato, starch grains

SB.2006 Allium cepa, onion, scale epidermis, w.m.

STEMS

SB.2055 Zea mays, corn, stem, c.s

SB.2060 Triticum aestivum, wheat, stem, c.s

SB.2070	Helianthus, sunflower, young stem, c.s
SB.2076	Tilia, lime tree, 1, 2 and 3 year stems on one slide,
SB.2095	Monocot/dicot stem, corn/pumpkin, c.s
SB.2100	Pelargonium hortorum, geranium, stem, c.s
SB.2105	Hibiscus, young stem, c.s
SB.2115	Sambucus, elderberry or Morus Alba, mulberry,
	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.2210	Lilium, lily, anther with mature pollen, c.s
SB.2212	Lilium, lily, overy, c.s
SB.2214	Lilium, lily, pollen, different stages of meiosis
SB.2220	Capsella, shepherds' purse, ovary w. embryo
	in pre-cotyledon stadium, l.s
SB.2222	Capsella, sheperd's purse, ovary w. embryo
	in cotyledon statium, l.s
SB.2225	Zea mays, corn seed with embryo, l.s
SB.2232	Pinus, pine tree, female (cone) globose fruit, l.s
SB.2240	Triticum aestivum, wheat, kernel, l.s

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

FERNS AND MOSSES

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

FUNGI

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

ALGAE

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

BACTERIA

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





disposables

MICROSCOPE SLIDES AND COVER GLASSES

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

PB.5155 Microscope slides 76 x 26 mm white glass,

ground edges. 50 pieces

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

PB.5157-B Microscope slides 76 x 26 mm,

ground blue frosted side, 50 pieces

PB.5160 Microscope slides 76 x 26 mm with concavity,

ground edges. 10 pieces

PB.5165 Cover glasses 18 x 18 mm,

thickness 0.13-0.17 mm. 100 pieces

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

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

MICROSCOPE SLIDE BOXES

PB.5181 Black plastic slide box for 25

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

PB.5185 Black plastic slide box for 100 slides



MISCELLANEOUS ACCESSORIES

Staining enables observation of cells and tissues of low contrast.

PB.5200 Staining trough for 10 slides

Euromex offers a range

of common stains

PB.5210 Fine pointed brush

STAINS

PB.5245 Lens paper. 100 sheets

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

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

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

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

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

PB.5275 Cleaning kit: lens cleaning fluid, lint free lens

tissue, brush, air blower, cotton swabs

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



PB.5276 PB.5280 / PB.5274

(DISSOLVED) STAINS

Supplied in 25 ml bottles

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

RING FLUID

TRA BLUE

ORING FLUID

RING FLUID

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

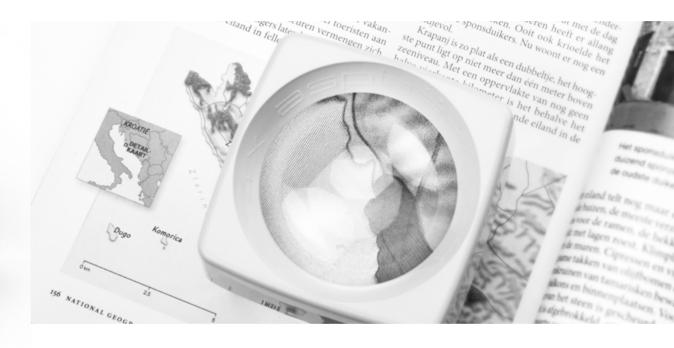


euromex

other products

optical instruments





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

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

MAGNIFIERS &

MEASURING MICROSCOPES • PAGE 382

REFRACTOMETERS • PAGE 386

POLARIMETERS • PAGE 393

SPECTROSCOPES • PAGE 394

PATHOLOGY SCANNER • PAGE 396



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.5021 PB.5026 PB.5022 PB.5020

FOLDING MAGNIFIERS

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

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

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

PB.5033 Achromatic magnifier 20x, triplet. Lens Ø 20 mm. Field of view 8 mm PB.5036 Aplanatic magnifier 10x, doublet. Lens Ø 20 mm. Field of view 20 mm

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



PB.5032

FOLDING MAGNIFIERS WHITE LED ILLUMINATION

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

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

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

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



PB.5016

FOLDING MAGNIFIERS WHITE LED AND UV ILLUMINATION

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

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

PB.5033-LUV Achromatic magnifier 20x, triplet.

Lens Ø 21 mm. White LED and UV illumination

PB.5035-LUV Achromatic magnifier 30x triplet.

Lens Ø 21 mm. White LED and UV illumination





PB.5034-LUV

MAGNIFIERS & MEASURING MICROSCOPES

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



magnifiers & measuring microscopes

TABLE MAGNIFIERS

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

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

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

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









PB.xxxx

MISCELLANEOUS MAGNIFIERS

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

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





MEASURING MAGNIFIERS WITH RETICLE

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

PB.5045 Measuring magnifier 7x. Eyepiece Ø 18 mm. Field of view 24 mm. Measuring scale 10-0-10 mm divided into 0.1 mm and crosshairs. With 5 interchangeable scales for angle, thickness and linear measurements

PB.5046 Measuring magnifier 10x. Eyepiece Ø 20 mm. Field of view 35 mm. Measuring scale 15-0-15 mm with 0.1, 0.2 and 0.5 mm graduations

PB.5048 Measuring magnifier 4x. Eyepiece Ø 30 mm. Field of view 65 mm. Measuring scale 25-0-25 mm with 0.1, 0.2 and 0.5 mm graduations

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







MEASURING MICROSCOPES

PB.5008 Measuring microscope 20x with LED illumination.

PB.5010 Measuring microscope 40x with LED illumination.

PB.5012 Measuring microscope 60x with LED illumination.

PB.5014 Measuring microscope 100x with LED illumination.

Measuring scale 7.2 mm with 0.1 mm graduation

Measuring scale 3 mm with 0.05 mm graduation

Measuring scale 1.75 mm with 0.02 mm graduation

Measuring scale 1.1 mm with 0.01 mm graduation



PB.5008

PB.5048



euromex

refractometers





refractometers

Refractometers are used for the identification of substances and concentration measurements of fluids. Because the refractive index (R.I.) of a solution is proportional to the concentration, it is easy to identify the substance or to measure the purity and concentrations of solutions

The Euromex refractometers are calibrated at 20° Celsius. Most refractometers are equipped with Automatic Temperature Compensation (ATC)

REFRACTOMETERS • PAGE 374 ABBE REFRACTOMETER • PAGE 377



refractometers

handheld and table models

A refractometer is an instrument that measures the refractive index of a liquid or refractive material such as sugar concentrations in fruits, juices, soft drinks, energy drinks, wines or must, liquors, jams, honey, industrial lubricants, antifreeze, ethanol, battery acids, salt, propylene glycol, ethylene glycol solutions

A few drops of the liquid that needs to be examined are gently deposited on a measuring prism and covered with a cover-glass. The rays of the light source (ambient light, built-in LED light source or external cold-light source) will be bent (refracted) in function of the composition of the liquid under observation

This results in a shadow line between a dark and a light portion. The measured value can be directly read through a focusable eyepiece on a refraction index scale and/or on a specific built-in scale(s) of the refractometer in Brix, Oechsle, Babo units or % volume, specific gravity, protein in serum or

Euromex offers portable or handheld refractometers, analogue or digital and laboratory Abbe refractometer products used in wine making, distilling, food processing, canning, beekeeping, brewing, pharmaceutical, manufacturing, machining, automotive industries

Most of the refractometers have also an A(utomated) T(emperature) C(ompensation) mechanism in order to compensate for temperature variations. Calibration can be verified with a calibration fluid (in most cases distilled water) and adjusted by a screw if needed

						Handheld model	Table model	6o	-
Application	Art no	Range	Accuracy	Remarks	ATC	Han	Table	Analog	Digital
Concentrations of sugar in marmalades,	RF.6190	0-90 Brix	0.2	3 scales: 0-42 / 42-71 / 71-90 Brix		•		•	
fruits, syrups,	RF.6510	0 - 10 Brix	0.1						
wine and monitoring	RF.6520	0 - 20 Brix	0.1						
of oil emulsions	RF.6532	0 - 32 Brix	0.2						
	RF.6562	28 - 62 Brix	0.2						
	RF.6580	0-80 Brix	0.5						
	RF.6582	45 - 82 Brix	0.5						
	RF.6592	58 - 92 Brix	0.2						
	RF.6635	0 - 150 °Oe	1	Oechsle units					
		0 - 35 Brix	0.2	Sugar concentration					
		0 - 27 °KMW	0.2	Babo units					
		0-22 %	0.2	% volume					
		0-37 CNM	0.5						
	RD.6735	0 - 150 °Oe	1						
		0-35 Brix	0.1						
		0 - 25 °KMW	0.1						
		0 - 22 %	0.1						
	RD.6645	0 - 45 Brix	0.1		•				•
		1.33 - 1.41 R.I.	0.0003						
	RD.6666	0-80 Brix	0.5		•	•			•
		1.33 - 1.51 R.I.	0.0005						
	RD.6667	58 - 92 Brix	0.2		•	•			•
		1.43 - 1.52 R.I.	0.0003						
Honey	RF.6642	13 - 25 %	0.1	Honey moisture	•	•		•	
	RF.6644	58 - 92 Brix	0.5		•				
		38 - 43 °Be	0.5						
		12 - 27 %	1	Water					
Concentration of	RF.6627	0 - 25 %	0.2	% volume	•	•		•	
sugar/alcohol %		0-40 Brix	0.2						
		0 - 20 Baume	0.2						
Salinity and	RF.6610	0 - 100 ‰	1		•	•		•	
concentration of sugar		0 - 10 Brix	0.1						
		1.00 - 1.07 R.I.	0.005						
	RF.6628	0 - 28 %	0.2		•	•		٠	
	RD.6728	0 - 28 %	0.1	% NaCl	•	•			•
		0 - 45 Brix	0.1						
		1.33 - 1.41 R.I.	0.0003	Only for sugar/salt					

Application	Art no	Range	Accuracy	Remarks	ATC	Handheld model	Table model	Analog	Digital
Clinical applications	RF.6612	0 - 12 g/d	II 0.2	Proteins in serum	•	•		•	
Proteins		1.00 - 1.05 sg	0.002	Urine specific gravity					
		1.333 - 1.360 R.I	0.0003						
	RF.6614	2 - 14 g/d	II 0.1	Proteins in serum	•	•		•	
		1.00 - 1.06 sg	0.001	Urine specific gravity (dog)					
		1.00 - 1.06 sg	0.001	Urine specific gravity (cat)					
	RD.6712	0 - 12 g/d	II 0.1	Proteins in serum	•	•			•
		1.00 - 1.05 sg	0.001	Urine specific gravity					
		1.33 - 1.39 R.I.	0.0001						
	RD.6714	0 - 14 g/d	II 0.1	Proteins in serum (dog)	•	•			•
		0 - 14 g/d	II 0.1	Proteins in serum (cat)					
		1.00 - 1.06 sg	0.001	Urine specific gravity (dog)					
		1.00 - 1.06 sg	0.001	Urine specific gravity (cat)					
		1.33 - 1.39 R.I.	0.0001						
Battery Acid/Coolant	RF.6650	1.10 - 1.40 sg	0.01	Battery fluids	•				
		-50/0 °C	5	Ethylene glycol G13					
		-50/0 °C	5	Propylene glycol G11/12					
		-40/0 °C	10	windshield washer fluid					
	RD.6730	1.0 - 1.50 sg	0.01	Battery fluids	•	•			•
		-50/0 °C	0.5	Ethylene glycol G13					
		-50/0 °C	0.5	Propylene glycol G11/12					
		-40/0 °C	0.5	windshield washer fluid					
Identification of precious stones	RF.6381	1.30 - 1.81 R.I.	0.01				•	•	

ACCESSORIES AND SPARE PARTS



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



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

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

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

The Abbe refractometer can be connected to a water bath for measuring at a controlled temperature. During the use of this type of refractometer the use of a cold light source such as the LE.5209 is recommended. This Abbe table refractometer has

scales for measurement of sugar concentrations and refractive indices. Delivered with carrying case, digital thermometer, calibration plate and adjusting tool



Substance identification 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		

polarimeters & spectroscopes



polarimeters & spectroscopes

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

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



Polarimeters are suitable for fast and accurate measurements of sugars, glucose, perfume, chemical substances and medical drugs. Equipped with a Glan Thomson prism and Laurent Quartz plate, a built-in 230 V 589.3 nm sodium lamp or a high-power LED with 589.3 nm filter

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



HIGHLIGHTS

- The polarimeters are delivered with 100 and 200 mm observation tubes
- Equipped with a built-in 230 V 589.3 nm sodium lamp or high-power LED with 589.3 nm filter
- · Fast and accurate

ACCESSORIES FOR 99.400

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

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

SPECTROSCOPES

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

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



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

SP.5155

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

- Direct vision type
- Adjustable eyelens
- Adjustable slit 0 1 mm
- Angle dispersion C F 7°
- Linear dispersion 60 mm
- Comparison prism
- Mirror
- five Glass cuvettes



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

SP.5150

Handheld spectroscope with adjustable slit from 0 tot 1 mm

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



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

SP.5100

Handheld spectroscope with fixed slit

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



SP.5100

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



PATHOLOGY SCANNER

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 microscopy analysis software

70 (h) x 150 (w) x 260 mm (d) | 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

SPECIFICATION

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-2.0 cable,
Supplied with	PathoView scanning software and user manual
Model	PS.1001

MODELS

PS.1001	PathoScan 10,000 DPI slide scanner
PS.3001	Double slide holder

choose the right euromex microscope

Euromex offers a large range of microscope series. Selecting the right microscope for your application might be challenging and time consuming.

To simplify this process we have listed our recommended models for most common applications in education, laboratories and industry

EDUCATION FIELD OF APPLICATION **RECOMMENDED MODELS**

• botany	Study of plants as branch of biology. Plant anatomy and morphology. Plant genetics and ecology. Plant biochemistry	MicroBlue, EcoBlue, BioBlue, BioBlue.Lab, AP series, EduBlue, StereoBlue
• digital imaging	Observation and perform analysis on microscope images, storage and share captured and videos	CMEX cameras, CCD cameras, HD cameras, EduPad, MacroZoom
• electronics	Development, production, assembling and inspection of electronic components or circuitry	bScope® (materials), EduBlue, StereoBlue, NexiusZoom, MacroZoom
• entomology	Study of insects as branch of zoology. Identification and classification of beetles, flies, termites, moths and butterflies, bees, ants, wasps	MicroBlue, EcoBlue, BioBlue, BioBlue, Lab, AP series, EduBlue, StereoBlue, MacroZoom
• geology, mineralogy	Earth Science; Study of solids, rocks and processes. Identification and classification of rocks and minerals	EcoBlue (polarization), BioBlue (polarization), AP series, EduBlue, StereoBlue
• geology, petrology	Identification by means of petrographic microscope	EcoBlue (polarization), BioBlue (polarization), AP series, EduBlue, StereoBlue
• mechanics	Manufacturing and quality inspection of mechanical parts	bScope® (materials), EduBlue, StereoBlue, NexiusZoom, MacroZoom
• microbiology	Study of microscopic uni-, multi- or acellular small organisms such as protozoa, algae, bacteria and more. Identification and classification	EcoBlue, BioBlue, bScope®, Delphi-X Observer
• mycology	Study of fungi as branch of biology. Identification and classification	EcoBlue, BioBlue, BioBlue.Lab, bScope®, AP series, EduBlue, StereoBlue
• petrology	Study of the composition and structure of rocks as branch of geology. Identification by means of polarization microscopes	EcoBlue (polarization), BioBlue (polarization), AP series, EduBlue, StereoBlue
• zoology	Animal biology. Study of invertebrates and vertebrates and related branches	EcoBlue, BioBlue, BioBlue.Lab, bScope®, AP series, EduBlue, StereoBlue, MacroZoom

UNIVERSITY LABS FIELD OF APPLICATION

RECOMMENDED MODELS

• agronomy & forestry	Selective breeding of plants, fruit and production of food from plants, wood from trees, fuel. Plant physiology and genetics research	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series, MacroZoom
anatomopathology	Diagnosis of diseases of organs or tissues. Cytopathology and forensic pathology	BioBlue.Lab, bScope®, iScope®, Oxion, Delphi-X Observer, NexiusZoom, DZ series
asbestos control	Research of asbestos fibers, environmental protection during restoration of older buildings	iScope® (asbestos and polarization), NexiusZoom, DZ series, Z series
• bacteriology	Study of bacteria as subdivision of microbiology. Identification, classification	BioBlue.Lab, bScope®, iScope®, Oxion, Delphi-X Observer
biochemistry	Study of chemical processes within living organism. Identification and classification of enzymes and structure of biomolecules	BioBlue.Lab, bScope®, iScope®, Oxion, Delphi-X Observer
• biomedical	Study of medical microbiology, virology, epidemiology, biomedical engineering	BioBlue.Lab, iScope®, Oxion, Delphi-X Observer
• biotechnology	Study of living organism in order to make food products, for plant protection (genetically modified organism) and other bio-process engineering. Development of pharmaceutical drugs, genetic testing, enzymes production, biofuels, textile	BioBlue.Lab, bScope®, iScope®, Oxion, Delphi-X Observer, StereoBlue, NexiusZoom, DZ series
• botany	Study of plants as branch of biology. Plant anatomy and morphology. Plant genetics and ecology. Plant biochemistry	BioBlue.Lab, bScope®, StereoBlue, NexiusZoom, DZ series, MacroZoom
• cell culture	Controlled growing of cells and tissues, fungal culture and microbiological culture	Delphi-X Inverso, Oxion Inverso, NexiusZoom, DZ series
• chemistry	Study of the composition and properties of chemicals	iScope® (materials and polarization), Oxion (materials), bScope® (materials), NexiusZoom, DZ series
• cosmetics	Research, development and testing (safety) of substances for make-up or perfume	iScope® (materials), Oxion (materials), bScope® (materials), NexiusZoom, DZ series
• cytology	Study of cell structure, function and chemistry. Detection of cellular diseases	BioBlue.Lab, iScope®, Oxion, Delphi-X Observer
• dermatology	Study and diagnosis, treatment of skin, nails and hair diseases	iScope®, Oxion, NexiusZoom, StereoBlue, DZ series, MacroZoom
• digital imaging	Observation and analysis of microscope images, save and share captured images and videos	CMEX cameras, CCD cameras, HD cameras, Cooled cameras, EduPad, ProPad
• electronics	Development, production, assembly and inspection of electronic components or circuitry	iScope® (materials), Oxion (materials), bScope® (materials), StereoBlue, Nexius- Zoom, DZ series, Z series, MacroZoom
• embryo collection	Embryo collection and transfer in mares, pigs, cows. Quality control	NexiusZoom, DZ series, Z series

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

RECOMMENDED MODELS

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

LIFE SCIENCE LABORATORIES FIELD OF APPLICATION

RECOMMENDED MODELS

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FIELD OF APPLICATION

RECOMMENDED MODELS

• agronomy & forestry	Selective breeding of plants, fruit and production of food from plants, wood from trees, fuel. Plant physiology and genetics research	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series, MacroZoom
anatomopathology	Diagnosis of diseases of organs or tissues. Cytopathology and forensic pathology	Delphi-X Observer, iScope®, bScope®, BioBlue.Lab, Oxion, StereoBlue, NexiusZoom, DZ series
bacteriology	Study of bacteria as subdivision of microbiology. Identification, classification	BioBlue.Lab, bScope®, iScope®, Oxion, Oxion Inverso, Delphi-X Observer
biochemistry	Study of chemical processes within living organism. Identification and classification of enzymes and structure of biomolecules	BioBlue.Lab, bScope®, iScope®, Oxion
• biomedical	Study of medical microbiology, virology, epidemiology, biomedical engineering	Delphi-X Observer, iScope®, bScope®, BioBlue.Lab, Oxion
• biotechnology	Study of living organism in order to make food products, for plant protection (genetically modified organism) and other bioprocess engineering. Development of pharmaceutical drugs, genetic testing, enzymes production, biofuels, textile	Delphi-X Observer, iScope®, bScope®, BioBlue.Lab, Oxion, NexiusZoom, DZ series, MacroZoom
• botany	Study of plants as branch of biology. Plant anatomy and morphology. Plant genetics and ecology. Plant biochemistry	BioBlue.Lab, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• cell culture	Controlled growth of cells and tissues, fungal culture and microbiological culture	Delphi-X Inverso, Oxion Inverso, NexiusZoom, DZ series
• chemistry	Study of the composition and properties of chemicals	iScope® (materials and polarization), Oxion (materials), bScope® (materials), NexiusZoom, DZ series
• cosmetics	Research, development and testing (safety) of substances for make-up or perfume	bScope® (materials), iScope® (materials), NexiusZoom, Oxion (materials), DZ series
• cytology	Study of cell structure, function an chemistry. Detection of cellular diseases	Delphi-X Observer, iScope®, bScope®, BioBlue.Lab, Oxion
dermatology	Study and diagnosis, treatment of skin, nails and hair diseases	iScope®, Oxion, NexiusZoom, StereoBlue, DZ series, MacroZoom
digital imaging	Observation and analysis of microscope images, save and captured the images and videos	CMEX cameras, CCD cameras, HD cameras, Cooled cameras, ProPad, MacroZoom
embryo collection	Embryo collection and transfer in mares, pigs, cows. Quality control	NexiusZoom, DZ series, Z series
• embryology	Study of gametes, embryos and fetuses	BioBlue.Lab, bScope®, iScope®, Oxion, NexiusZoom, DZ series, Z series
• entomology	Study of insects as branch of zoology. Identification and classification of beetles, flies, termites, moths and butterflies, bees, ants, wasps	BioBlue.Lab, bScope ^a , iScope ^a , Oxion, StereoBlue, NexiusZoom, DZ series, MacroZoom
• environmental	Monitoring of environmental conditions such as water, atmosphere, ecosystems, soil and pollution	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• fluorescence	Study of living and non living material with the help of fluorescence markers (fluorochromes)	Delphi-X Observer (fluorescence), iScope® (fluorescence), Oxion (fluorescence), Oxion Inverso (fluorescence), bScope® (fluorescence), DZ series
• forensics	Analysis of scientific evidence. Toxicology, fingerprints, Forensic anthropology and archeology, forensic botany and entomology	BioBlue.Lab, bScope®, iScope®, Delphi-X Observer, Oxion, Oxion Inverted, NexiusZoom, DZ series, Z series

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

INDUSTRY FIELD OF APPLICATION RECOMMENDED MODELS

• aerospace	Manufacturing and quality inspection of rockets and space vehicles related parts	iScope® (materials), Oxion (materials), NexiusZoom, DZ series, Z series
• agronomy & forestry	Selective breeding of plants, fruit and production of food from plants, wood from trees, fuel. Plant physiology and genetics research	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series, MacroZoom
• asbestos control	Research of asbestos fibers, environmental protection during restoration of older buildings	iScope® (asbestos and polarization), NexiusZoom, DZ series, Z series
• automotive	Manufacturing and quality inspection of automotive related parts	iScope® (materials), Oxion Inverso (materials), NexiusZoom, DZ series, Z series
• avionics	Manufacturing and quality inspection of aircraft related parts	iScope® (materials), NexiusZoom, DZ series
• biochemistry	Study of chemical processes within living organism. Identification and classification of enzymes and structure of biomolecules	BioBlue.Lab, iScope®, Oxion, NexiusZoom, DZ series
• chemistry	Study of the composition and properties of chemicals	iScope® (materials), Oxion (materials)
• cosmetics	Research, development and testing (safety) of substances for make-up or perfume	bScope® (materials), iScope® (materials), Oxion (materials), NexiusZoom, DZ series
• digital imaging	Observation and analysis of microscope images, save and captured the images and videos	CMEX cameras, CCD cameras, HD cameras, ProPad, MacroZoom
• electronics	Development, production, assembling and inspection of electronic components or circuitry	iScope® (materials), Oxion (materials), NexiusZoom, DZ series, Z series, BE-50 LED, MacroZoom
• environmental	Monitoring of environmental conditions such as water, atmosphere, ecosystems, soil and pollution	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series
• food and beverages	Quality and safety controls, before, during and after the production of food and beverages	BioBlue.Lab, bScope®, iScope®, Oxion
• forensics	Analysis of scientific evidence. Toxicology, fingerprints, Forensic anthropology and archeology, forensic botany and entomology	BioBlue.Lab, bScope®, bScope® (materials), iScope®, iScope® (materials and polarization), Oxion, Oxion (materials), Oxion Inverted, Oxion Inverted (materials), NexiusZoom, DZ series, Z series
• geology, mineralogy	Earth science that study the solid, rocks and processes. Identification and classification of rocks and minerals	iScope® (materials), Oxion (materials), Oxion Inverso (materials), B+ (materials), StereoBlue, NexiusZoom, DZ series, MacroZoom
• geology, petrology	Identification by means of an petrographic microscope	iScope® (polarization)
• glass industry	Quality control, before, during and after the production of glass and coatings	iScope® (materials), Oxion (materials), Oxion Inverso (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series
horticulture	Selective breeding of plants and fruit for production of food	BioBlue.Lab, bScope®, iScope®, Oxion, StereoBlue, NexiusZoom, DZ series, MacroZoom
• jewelry	Precise manufacturing of very small decorative items such as brooches, rings, bracelets and more	BE-50 LED series, StereoBlue, NexiusZoom, DZ series, Z series

INDUSTRY RECOMMENDED MODELS FIELD OF APPLICATION

• mechanics	Manufacturing and quality inspection of mechanical parts	iScope® (materials), Oxion (materials), Oxion Inverso (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series, MacroZoom
• metallurgy	Manufacturing and quality inspection of metallic elements, intermetallic compounds and alloys	iScope® (materials), Oxion (materials), Oxion Inverso (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series, MacroZoom
• mining	Extraction of minerals Identification, quantitative and qualitative evaluation of minerals	iScope® (materials and polarization), Oxion (materials and polarization), Oxion Inverso (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series
• paper industry	Production of paper related products. Quality inspection	iScope® (materials), Oxion (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series, MacroZoom
• petrochemical	Research and transformation of crude oil and natural gas	iScope® (materials), Oxion (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series
• petrology	Study of the composition and structure of rocks as branch of geology. Identification by means of polarization microscopy	iScope® (polarization), StereoBlue, NexiusZoom, DZ series
• pharmaceutics	Development and production of drugs for medication. Quality assurance and inspection of produced products	iScope® (polarization), StereoBlue, NexiusZoom, DZ series
• plastics	Development and production of plastics and plastic based compounds. Quality assurance and inspection	iScope® (materials), Oxion (materials), Oxion Inverso (materials), bScope® (materials), StereoBlue, NexiusZoom, DZ series
• printing industry	Production of relief printing, lithography	iScope® (materials), Oxion (materials), bScope® (materials), AP series, StereoBlue, NexiusZoom, DZ series, MacroZoom
• textile	Development and production of all kinds of textile based products. Quality assurance and inspection	iScope® (materials), Oxion (materials), Oxion Inverso (materials), B+ (materials), AP series, StereoBlue, NexiusZoom, DZ series, MacroZoom
• water treatment	Production of drinking water and wastewater treatment. Quality control and disease prevention	BioBlue.Lab, bScope®, iScope®, Oxion
wood production	Wood production for construction material, fuel. Quality control	iScope® (materials), Oxion (materials), Oxion Inverso (materials), B+ (materials), AP series, StereoBlue, NexiusZoom, DZ series, MacroZoom



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