

PART 1 MICROSCOPES FOR EDUCATION

PART 2 MICROSCOPES FOR LIFE SCIENC

PART 3 MICROSCOPES FOR INDUSTRY



contents

euromex **MICROSCOPE COLLECTION** 2023 • 2024

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about

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

Digital microscopes • MacroZoom • WiFi camera • USB cameras

HD cameras • Cooled cameras • Tablet cameras • Software • Adapters

ACCESSORIES | FOR MICROSCOPY

INDUSTRY | DIGITAL SOLUTIONS

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. Euromex Optics Group BV is a GSI Group Company

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



View the Product Videos on YouTube

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

SEE PAGE 412

SEE PAGE 420

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, eye 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 enable you to examine your specimen with high-performance precision and generate two- and three-dimensional images allowing observation for your most demanding microscopy applications

These top level zoom microscopes are perfect for analyzing all kinds of material surfaces or for observing larger objects



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

NZ.1903-U ESD









electronics industry complete this series













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



POLARIZATION

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

STAND

- Ergonomic pillar or rack & pinion stand with 3 W incident and 3 W transmitted LED illuminations (-P and -S stands)
- Ergonomic pillar stand with two 3 W gooseneck type incident LED illuminations on each side and a 3 W transmitted LED illumination (-PG stand)
- Ergonomic pillar stand with rotating mirror and 3 W LED transmitted and incident illuminations (-M stand)
- · Ergonomic universal or boom stands, without illumination (-U and B stands)
- · Articulated arm stand for table mounting or with heavy 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 or with the LE.5212 illumination station, 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

ANTI-THEFT SLOT

At the back of the microscope a Kensington Security slot is placed, which can be used to secure the instrument from theft (only on th P-, PG-, and S-models)

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 pages 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	Articulated arm stand on table clamp	Articulated arm stand on heavy base plate	Gooseneck dual LED	Mirror LED	Weight (kg)
NZ.1902-P	•		•								5.0
NZ.1902-PG	•		•						•		5.1
NZ.1902-S	•			•							4.9
NZ.1902-U	•				•						15.6
NZ.1902-B	•					•					22.1
NZ.1902-A	•						•				8.6
NZ.1902-AP	•							•			20.7
NZ.1903-P		•	•								5.2
NZ.1903-PG		•	•						•		5.3
NZ.1903-M		•	•							•	5.1
NZ.1903-S		•		•							5.1
NZ.1903-U		•			•						15.7
NZ.1903-B		•				•					22.2
NZ.1903-A							•				8.7
NZ.1903-AP		•						•			20.8

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

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

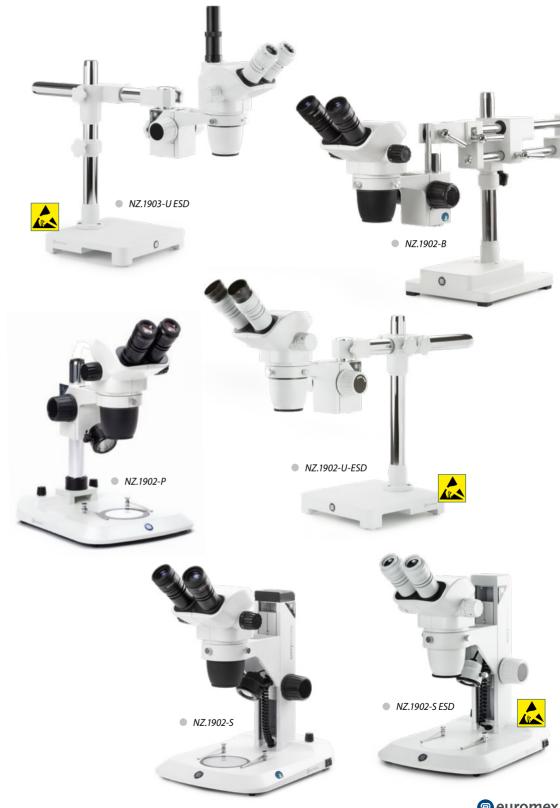
NexiusZoom and NexiusZoom ESD: working distance and field of view with standard high wide field (HWF) 10x / 22 eyepieces

Zoom indication		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						
0.67	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.6020-CM HWF 20x/12 mm eyepieces 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.6210 Pair of HWF 10x/23 mm eyepieces for NZ EVO

NZ.6210-C HWF 10x/23 mm eyepiece only with crosshairs for NZ EVO

NZ.6210-CM HWF 10x/23 mm eyepiece only with 10/100 micrometer and crosshairs for NZ EVO

NZ.6099 Pair of eyecups



NZ.5302 / NZ.5303

AUXILIARY LENSES

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

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

WD = Working distance

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

HEAD HOLDERS

NZ.9090

	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

NexiusZoom head holder

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

NZ.9081 NZ head holder 76 mm for NZ and black universal

NZ = NexiusZoom

LE.5210

LE.5211

LE.5214

LE.5215

LE.5222

IATION		
Multi-functional dual 3 W LED adjustable light	LE.5224	Aspherical focusing lens for mounting in LE.5222
source. Equipped with two flexible gooseneck	More illumina	ation options, see chapter 11
arms with LED illuminator		
Euromex illumination station with two	POLARIZ	ATION ATTACHMENTS
independently controlled goosenecks, a ring	NZ.9520	Polarization kit for NexiusZoom: 360° rotatable
light and a transmitted stage illuminator		circular stage with built-in polarization filter
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
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
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
Interchangeable high power 420 nm flexible are		use in combination with auxiliary lenses
for NZ.9018/LE.5207/LE.5212, 1 pc		
Ring illuminator with 72 LEDs with adjustable	DARKFIE	LD 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-NZ	Heating stage with PID controller up to 50°C.
Ring illuminator with 144 LEDs with adjustable		Only with the purchase of a new microscope
light intensity. External power supply 100-240		
	Multi-functional dual 3 W LED adjustable light source. Equipped with two flexible gooseneck arms with LED illuminator Euromex illumination station with two independently controlled goosenecks, a ring light and a transmitted stage illuminator Interchangeable high power (standard) white 6,500K light guide for NZ.9018/LE.5207/LE.5212, 1 pc Interchangeable high power 365 nm flexible arm for NZ.9018/LE.5207/LE.5212, 1 pc Interchangeable high power 395 nm flexible arm for NZ.9018/LE.5207/LE.5212, 1 pc Interchangeable high power 395 nm flexible arm for NZ.9018/LE.5207/LE.5212, 1 pc Interchangeable high power 420 nm flexible are for NZ.9018/LE.5207/LE.5212, 1 pc Ring illuminator with 72 LEDs with adjustable light intensity. External power supply 110-240 Vac / 12 Vdc (50/60 Hz). With segment controller. Brightness of 20,000 Lux at 100 mm distance and color temperature of 6,500 K. Mounting for stereo head with diameter from 25 to 61 mm Ring illuminator with 144 LEDs with adjustable	Multi-functional dual 3 W LED adjustable light source. Equipped with two flexible gooseneck arms with LED illuminator Euromex illumination station with two independently controlled goosenecks, a ring light and a transmitted stage illuminator Interchangeable high power (standard) white 6,500K light guide for NZ.9018/LE.5207/LE.5212, 1 pc Interchangeable high power 365 nm flexible arm for NZ.9018/LE.5207/LE.5212, 1 pc Interchangeable high power 395 nm flexible arm for NZ.9018/LE.5207/LE.5212, 1 pc Interchangeable high power 420 nm flexible are for NZ.9018/LE.5207/LE.5212, 1 pc Ring illuminator with 72 LEDs with adjustable light intensity. External power supply 110-240 Vac / 12 Vdc (50/60 Hz). With segment controller. Brightness of 20,000 Lux at 100 mm distance and color temperature of 6,500 K. Mounting for stereo head with diameter from 25 to 61 mm Ring illuminator with 144 LEDs with adjustable

Vac / 12 Vdc (50/60 Hz). With segment controller. Brightness of 23,000 Lux at 100 mm distance and color temperature of 6,500 K. Mounting for stereo head with diameter from 25 to 61 mm

Euromex cold light illuminator EK-1, 100 W.

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

Euromex cold light illuminator, 150 W halogen.

110 V and 230 V models available

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

CAMERA ACCESSORIES

C-mount adapter with 0.5x lens for 1/2 inch
cameras
Universal SLR adapter with built-in 2x lens for
standard 23.2 mm tube. Needs T2 adapter
T2 adapter for Nikon D SLR digital camera
T2 adapter for Canon EOS SLR digital camera

Other T2 adapters on request

MISCELLANEOUS

MIJCELL	ANLOUS			
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			

DISPOSABLES

NZ.9956 Black/white stage plate, Ø 95 mm PB.5245 NZ.9958 Standard glass object plate, opaque, Ø 95 mm

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

500 parts on glass slide 76 x 26 mm)

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 paper, 100 sheets per pack

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



NZ.9005 NZ.9000





stereo microscope

how to set up a

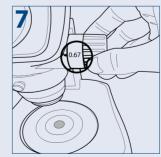
Setting up your stereo microscope properly is essential to getting parfocal images during the entire zoom range. It also prevents head aches, stressful eyes and fatigue. Below you will find a setup guide that will help get the best out of your microscope



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



Rotate the focus adjustment knob to bring the specimen into focus



Turn the zoom adjustment knob to the lowest magnification



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



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.1903-GEMF

NZ.1902-GEML



HIGHLIGHTS

- Binocular and trinocular heads
- Standard HWF 10x eyepieces with 22 mm or 23 mm field of view
- Zoom objectives with 0.7 to 4.5x or 0.65 to 5.5x magnification
- 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

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 au WD 11	•	Auxiliary lens 0.75x WD 105 mm		Auxiliary WD 5		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	Without auxiliary lens WD 110 mm		Auxiliary lens 0.75x WD 105 mm		Auxiliary WD 5		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 eyepieces
NZ.5313	NexiusZoom EVO trinocular head with eyepieces
NZ.6010	Pair of HWF 10x / 22 mm eyepieces
NZ.6210	Pair of HWF 10x / 23 mm eyepieces.
	Only suitable for NexiusZoom EVO
NZ.6015	Pair of HWF 15x / 16 mm eyepieces
NZ.6020	Pair of HWF 20x / 12 mm eyepieces
NZ.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			

WD = working distance

CAMERA ACCESSORIES

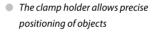
	NZ.9850	C-mount adapter with 0.5x lens for 1/2" cameras
		Suitable for trinocular models
5	AE.5130	Universal SLR camera adapter with 2x projection
S		lens for 23.2 mm tubes. Needs T2 adapter
	AE.5020	T2 adapter for Nikon D digital SLR cameras
	AE.5040	T2 adapter for Canon EOS digital SLR cameras

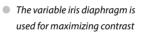
Other T2 adapters on request

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 part
	on glass slide 76 x 26 mm)













NZ.5302 / NZ.5303











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

















SB.1903

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/ 0.5x to 5.5 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 warrantv

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

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



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

Universal stand (SB.1902-U)

Boom stand (SB.1903-B)

EVO ZOOM OBJECTIVE

- Zoom stereo 0.5x to 5.5x parfocal objective
- Magnification from 5x to 55x
- Field of view 38 mm to 3.9 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, U) and boom stand (dual arm, B) are ideal for viewing large samples or working under the microscope. They come without illumination

- The U- and B-stand can be equipped with 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)

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)

ANTI-THEFT SLOT

At the back of the microscope a Kensington Security slot is placed, which can be used to secure the instrument from theft (not on the U- and B-models)

PACKAGE CONTENT

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





STEREOBLUE 1X/3X AND 2X/4X OBJECTIVES

MODELS	Binocular	1x/3x objective	2x/4x objective	Rack & pinion stand 3 W LED	Pillar stand 3 W LED	Weight (kg)
SB.1302	•	•		•		3.3
SB.1302-P	•	•			•	4.2
SB.1402	•		•	•		3.3
SB.1402-P	•		•		•	4.2

STEREOBLUE 0.7X UP TO 4.5X ZOOM/0.5X UP TO 5.5X ZOOM EVO

MODELS	Bino	Trino	0.7 - 4.5x zoom	0.5 - 5.5x zoom EVO	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.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
SB.1702	•			•	•					3.6
SB.1702-P	•			•		•				4.4
SB.1702-U	•			•			•			15.4
SB.1702-B	•			•				•		21.9
SB.1703		•		•	•					3.7
SB.1703-P		•				•				4.5
SB.1703-U				•						15.5
SB.1703-B		•		•				•		22.0

ACCESSORIES AND SPARE PARTS

EYEPIECES

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

ΑU

		CAMER	A ACCESSORIES	
AUXILIA	ARY LENSES	SB.9850	C-mount adapter with 0.5x lens for 1/2" cameras.	
SB.8903	Auxiliary 0.3x lens for zoom models,		Only for trinocular models	
	WD 287 mm. Only suitable for boom and	AE.5130	Universal SLR camera adapter with 2x projection	
	articulated stands		lens for 23.2 mm tubes. Needs T2 adapter	
SB.8905	Auxiliary 0.5x lens for zoom models, WD 179 mm.	AE.5025	T2 adapter for Nikon D digital SLR cameras	
	Not suitable for SB.1X02, SB.1X03, SB.3903 and	AE.5040	T2 adapter for Canon EOS digital SLR cameras	
	SB.3903-P	Other T2 ac	lapters on request	
SB.8907	Auxiliary 0.75x lens for zoom models, WD 105 mm			
SB.8915	Auxiliary 1.5x lens for zoom models, WD 53 mm.	DISPOSABLES		

PB.5245

PB.5274

PB.5275

DIMENSIONS

POLARIZATION ATTACHMENT

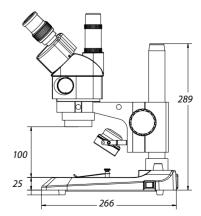
Not suitable for SB.39xx

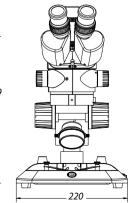
SB.9520	Polarization kit: 360° rotatable circular stage with
	built-in polarization filter (SB.9524) + analyzer in
	mount to be screwed under the head (SB.9525)
SB.9524	360° rotatable circular stage with
	built-in polarization filter
SB.9525	360° rotatable analyzer in mount
	to be screwed under the head

MISCELLANEOUS

WD = workong disctance

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
SB.9090	Head holder for SB.9020





Lens cleaning paper, 100 sheets per pack

tissue, brush, air blower, cotton swabs

Cleaning kit: lens cleaning fluid, lint free lens

Isopropyl alcohol 99% (200 ml)

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



















DZ.1100 / DZ.1600 / DZ.1800

DZ.1105 / DZ.1605 / DZ.1805

For weight of other products see table 'Models'

HIGHLIGHTS

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



SPECIFICATIONS

EYEPIECES

Pair of EWF 10x/22 mm eyepieces

HEAD

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



STANDARD CONFIGURATIONS

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

DZ SERIES STANDARD

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

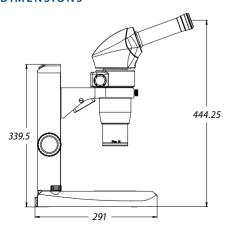
All equipped with EWF 10x/22 mm eyepieces

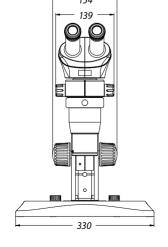
MAGNIFICATIONS AND FIELDS OF VIEW FOR STANDARD CONFIGURATIONS

				0.5x Objective WD 126 mm		1.0x Objective WD 78 mm		2.0x Objective WD 33 mm	
МО	DE	LS	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
	//DZ.1805 DZ.1600/DZ.1605	505	1.5x	7.5x	29.3	15x	14.6	30x	7.3
)Z.1	2.0x	10x	22	20x	11	40x	5.5
		0/0	3.0x	15x	14.6	30x	7.3	60x	3.6
	Z.1	9	4.0x	20x	11	40x	5.5	80x	2.7
105	DZ.1800/DZ.1805	DZ	5.0x	25x	8.8	50x	4.4	100x	2.2
Z.1	180		6.0x	30x	7.3	60x	3.6	120x	1.8
0/[DZ		6.4x	32x	6.8	64x	3.4	128x	1.7
DZ.1100 / DZ.1105			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

DIMENSIONS





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

ACCESSORIES/SPARE PARTS

CENTRAL ZOOM UNITS

DZ.0630	Central zoom unit 1:6.3 unit with magnifications	DZ.4010	Plan apochromatic common main objective
	from 8 to 50 times		1.0x. WD 78 mm
DZ.0800	Central zoom unit 1:8 unit with magnifications	DZ.4020	Plan apochromatic common main objective
	from 8 to 64 times		2.0x. WD 33 mm
DZ.1000	Central zoom unit 1:10 unit with magnifications	All optics ar	e anti-fungus treated and anti-reflection coated for
	from 8 to 80 times	maximum l	ight throughput
		WD = Work	ing distance

HEADS

DZ.2020	Ergonomic binocular 0-35° tilting head without		
	eyepieces		
DZ.2025	Binocular 20° tilted head without eyepieces		
	Internunillary distance from 55 to 75 mm		

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

DZ.9010 Double iris diaphragms for increased depth of field

OBJECTIVES

DZ.4003	Plan common main objective 0.3x. WD 276 mr
DZ.4005	Plan apochromatic common main objective
	0.5x. WD 126 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

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

DZ.9060 Filter cube with GFP-B band-pass filter set for 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

Other fluorescence filters available on request Each cube needs two emission fluorescence filters

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



POLARIZATION ATTACHMENTS

DZ.9045 Polarizer, 360° rotatable, to be mounted on common main objectives of DZ series DZ.9047 Polarizer, 360° rotatable, to be placed on the stage

CAMERA ACCESSORIES

DZ.9005	Photo port attachment with one 23.2 mm tube		
DZ.9007	Photo port attachment with two 23.2 mm tubes		
DZ.9013	C-mount 1x objective for insertion into		
	photo port attachments		
AE.5130	Universal SLR camera adapter with 2x projection		
	lens for 23.2 mm tubes. Needs T2 adapter		
AE.5025	T2 adapter for Nikon D digital SLR cameras		
AE.5040	T2 adapter for Canon EOS digital SLR cameras		

Other T2 adapters on request

MISCELLANEOUS

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, Ø 100mm		
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

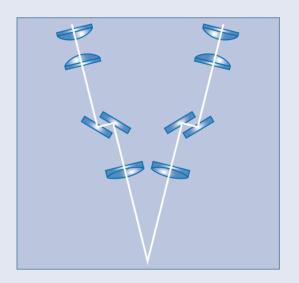
about

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

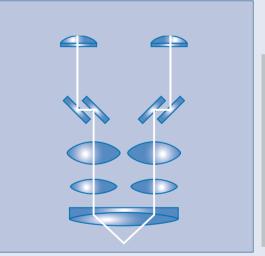
Good quality

Production environment

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

common main objective (CMO)

principle



TECHNICAL FACTS

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

euromex 297

⁽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

HIGHLIGHTS

Z series

- Modular system
- Binocular and trinocular models
- Standard SWF 10x/23 mm eyepieces
- Stereo zoom heads with a fixed 45° inclined tubes
- Zoom magnification objectives
- Superior resolution optics
- Multiple stands
- 10 Years warranty



SPECIFICATIONS

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)

Pillar ergonomically flat stand with ST.1790 head holder. Pillar height 213 mm, diameter Ø 20 mm.

Stand with 3 W LED

illumination and rotatable

double-sided coated mirror

ST.1740

STANDS WITH ILLUMINATION

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.

Rack & pinion stand with 10 W halogen

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

ST.1718

Dimensions 258 (h) x 330 (w) x 306 (d)



Z series

These versatile high-end

stereo microscopes are

the professional research

teams and industry for the

excellent optical and mechanical

characteristics. Indispensable for a reliable

Certain components are also integrated in machines.

as eyepieces, additional lenses, stands, stages, filters, etc

Depending on the application, the microscopes can be configured

with different zoom heads, together with other components such

quality inspection of industrial products.

highly appreciated by









STEREO MICROSCOPES











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

ZE.1654

ST.1720, ZE.1654

and LE.5210, LE.5239





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

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

HEAD HOLDERS

Other optional head holders for boom stands

ST.1790	Head holder with coarse adjustment*
ST.1796	Head holder with coarse and fine adjustment*
	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 adjustmen
	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



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

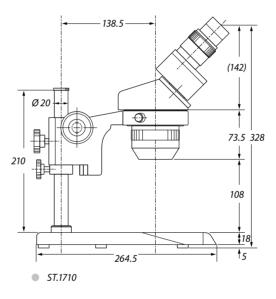
^{*} When the trinocular tube is engaged, the image is still available in both eyepieces All zoom stereo heads are supplied with SWF 10x/23 mm eyepieces without eyecups

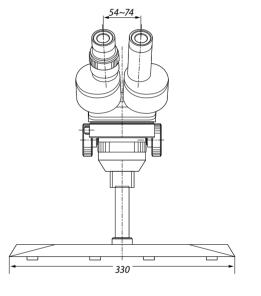
STANDS

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

DIMENSIONS





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.1840	Pair of SWF 30x/7.5 mm eyepieces
AF 5430	Date of accessors

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

^{**} 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.1822 Additional 0.57x lens. WD 300 mm

ADDITIONAL LENSES

(for ZE.1624, ZE.1654, ZE.1670, 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.1720, ST.1770, ST.1780, ST.1785

and 65.980 stands

AE.1856 Additional 0.5x lens. WD 150 mm.

Suitable with ST.1740. Maximum object size

is 15 mm

AE.1857 Additional 0.75x lens. WD 97 mm

AE.1858 Additional 1.5x lens, WD 50 mm

AE.1859 Additional 2.0x lens. WD 34 mm

ADDITIONAL LENSES

(for ZE.1629)

AE.1805 Additional 0.3x lens. WD 330 mm.

Suitable with ST.1720, ST.1770, ST.1780, ST.1785

and 65.980 stands

AE.1806 Additional 0.5x lens. WD 198 mm.

Suitable with ST.1720, ST.1770, ST.1780, ST.1785

and 65.980 stands

Additional 0.75x lens. WD 125 mm AE.1807

AE.1808 Additional 1.5x lens, WD 62 mm

ADDITIONAL LENSES

(for ZE.1657)

AE.1816 Additional 0.35x lens. WD 250 mm

AE.1817 Additional 0.5x lens. WD 174 mm

AE.1818 Additional 1.5x lens, WD 57 mm

WD = workong disctance

PROTECTION WINDOWS

(to be screwed under the objectives)

AE.1845 Protection window for all heads of ZE series

except ZE.1659

AE.1825 Protection window for ZE.1659.

Not suitable with additional lenses

DARKFIELD

AE.1878 Darkfield attachment for ST.1740

POLARIZATION

AE.1890 Analyzer, in rotatable mount.

Not suitable with ZE.1659

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 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 and 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

DC.1320

DC.1326

30 W 230 V incandescent bulb for ST.1750 stand SL.1868

SL.1869 10 W 6 V halogen bulb for ST.1740 illumination

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



AE.1845 Protection window



AE.1825 Protection window for ZE.1659

CAMERA ACCESSORIES Projection 1x objective with C-mount DC.1324 Projection 0.5x objective with C-mount for cameras with 1/2" sensor.

To be inserted into a 23.2 mm tube

for cameras with 1/3" sensor.

Projection 0.33x objective with C-mount

To be inserted into a 23.2 mm tube

AE.5130 Universal SLR camera adapter with 2x projection

lens for 23.2 mm tubes. Needs T2 adapter

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

AE.5063 0.7x Objective with C-mount. To be mounted

over a 23.2 mm tube of a Z-, M-. F-series

Other T2 adapters on request



 AE.1890 Analyzer, in rotatable mount



 AE.1881 Glass transparent object plate



 AE.1882 Acrylic black/white object plate



AE.5446 Orientable clamp for gems



AE.1896 Stage 145 x 115 mm with central glass object plate



under the microscope with ease. Ideal for jewelers, watchmakers, soldering, quality inspection and so on

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

vary from 2.5x to 40x















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

BE.1812

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

• Comes with 0.5x fixed magnification objective, magnification 5x, field of view 40 mm.

Working distance 250 mm

OBJECTIVES

DIMENSIONS

· 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

HEAD

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

STAND

BE.6110

BE.6099

Stable overhanging heavy base stand with pillar

FOCUSING ADJUSTMENT

Coarse adjustment with tension control

Pair of eyecups

ILLUMINATION

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

ACCESSORIES AND SPARE PARTS

HWF 10x/20 mm eyepiece with micrometer

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	٠	•			250 mm	•
BE.1812	•		•		230 mm	•
BE.1820	•			•	119 mm	•







a rack & pinion stand and a 360° rotatable head

The P series are compact and lightweight, ideal microscopes for



industrial applications either in a workshop or for field work















60.200 (P-20)







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



60.100 (P-10)

SPECIFICATIONS

EYEPIECES

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

HEAD

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

OBJECTIVES

- The P-10 and P-10 LED models are supplied with revolving 1x/3x objectives for total magnification of 10 and 30 times with a field of view from 20 to 6.7 mm
- The P-20 and P20-8 LED models are supplied with revolving 2x/4x objectives for total magnification of 20 and 40 times with a field of view from 10 to 5 mm
- Magnifications of 5 to 80x can be achieved by using 5x, 15x or 20x eyepieces

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

STAND

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

ILLUMINATION

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

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

grade cameras, see chapter 10 (Digital solutions).

For P series, the camera replaces one of the eyepieces

PACKAGE CONTENT

Supplied with power cord, three rechargeable AA batteriies, 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

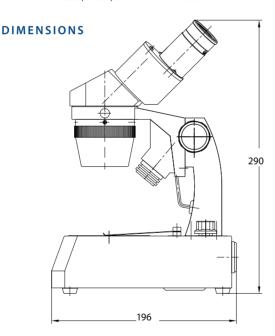
50.805	Pair of wide field eyepieces WF 5x/22 mm
50.810	Pair of wide field eyepieces WF 10x/20 mm
50.811	Micrometer eyepiece WF 10x/20 mm, 10 mm/100
50.815	Pair of wide field eyepieces WF 15x/16 mm
50.820	Pair of wide field eyepieces WF 20x/10 mm
50.840	Pair of evecups

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





50.810	50.815	50.820

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

magnifiers

A basic magnifier consists of a convex lens that is mounted in a frame and handle to magnify an object. Lenses have been widely used in the Mediterranean region and Middle East over several millennia

Basic magnifying glasses have low magnifications from 2 to 6 times. The magnification of such a basic magnifier depends upon the position between the user's eye, the object being viewed and the total distance between them

TECHNICAL

FACTS

At higher magnifications, the image quality decreases rapidly due to important spherical aberration



Doublet and triplet magnifiers with multiple lenses enable higher magnifications from 10 to 30 times These are often mounted in a cylindrical holder with no handle (often called a "loupe")

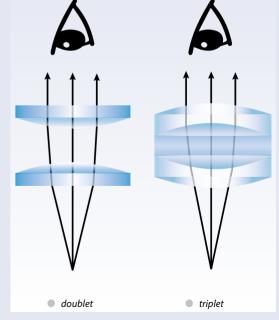
Such magnifiers have very small apertures and they must be placed close to both the object and the eye





Other types of loupes are designed to be put on the table or sample, without or with micrometer scales in order to perform quick measurements

For magnification beyond 30 times, a stereomicroscope must be used



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, glass, wood and chemical materials

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

ISCOPE (MATERIALS & POLARIZATION) • PAGE 312

BSCOPE (MATERIALS) • PAGE 320

DELPHI-X OBSERVER (MATERIALS) • PAGE 324

OXION (MATERIALS) • PAGE 332

DELPHI-X INVERSO (MATERIALS) • PAGE 336

OXION INVERSO (MATERIALS) • PAGE 340



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 two types of materials science microscopes; metallurgical and polarization microscopes























IS.1053-PLMi

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 and polarization
- 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

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 insert
- 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

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

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

TRANSMITTED 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. Polarisation models with transmitted light only are supplied with: 360° rotatable polarization filter, 360° rotatable analyzer with 180 increments and nonius for 0.2 degree readout, Bertrand lens (build-in), 1 λ first red and 1/4 λ retardation plate, a quartz wedge, 45 mm green and blue filters for lamp house

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, 360° rotatable analyzer with 180 increments and nonius for 0.2 degree readout, Bertrand lens (build-in), 1 λ first red plate, 1/4 λ retardation plate, a quartz wedge, sliders with green/blue and white/neutral densitiy filter. 45 mm green and blue filters for lamp house

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

OBJECTIVES

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



(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

(4) Plan PLi infinity corrected objectives for asbestos research. With 0.17 mm cover glass correction

(5) Optional objectives

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



IS.1052-PLPOLi

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		•	٠			•	•	•	•	•

⁽¹⁾ Strain free objectives with 0.17 mm cover glass correction

ISCOPE® METALLURGICAL MODELS

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
IS.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



Note:

the iScope® 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)

ACCESSORIES AND SPARE PARTS

EYEPIECES

IS.6210	EWF 10x/22 mm eyepiece*
IS.6210-C	EWF 10x/22 mm eyepiece with crosshairs*
IS.6210-P	EWF 10x/22 mm eyepiece with pointer*
IS.6210-CM	EWF 10x/22 mm eyepiece with 10/100
	micrometer and crosshairs*
IS.6212	WF 12.5x/17 mm eyepiece*
IS.6215	WF 15x/16 mm eyepiece*
IS.6215-CM	EWF 15x/16 mm eyepiece with 10/100
	micrometer and crosshairs*
IS.6220	WF 20x/12 mm eyepiece*
IS.6299	Pair of eyecups for infinity corrected
	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*
× 0 20 .	1

^{*}Ø30 mm tube

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

IS.8105	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

^{*} 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

^{*} No 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

WD = working distance

TRANSMITTED KÖHLER ILLUMINATION SYSTEM

IS.9700	Blue filter 45 mm for lamphouse
IS.9702	Green filter 45 mm for lamphouse
IS.9704	Yellow filter 45 mm for lamphouse
IS.9706	White opaque filter 45 mm for lamphouse
SL.5503	3 W NeoLED™ replacement unit

POLARIZATION ATTACHMENT

without reflected illumination

IS.9604	Quartz wedge in slider
IS.9608	Analyzer 0-360° rotatable
IS.9610	Lambda plate first red 530 nm in slide
IS.9612	Lambda/4 retardation plate in slider

POLARIZATION ATTACHMENT

with reflected 50W/12V halogen illumination

IS.9602-R	Polarizer
	1 Oldrizer

IS.9604-R	Quartz wedge in slide
IS.9604-R	Quartz wedge in slide

S.9612-R	Lambda/4 retardation plate in slider
S.9610-R	Lambda plate first red 530 nm
S.9608-R	360° Rotatable analyzer in slider

AE.3679 Halogen spare bulb 12 V 50 W





⁽²⁾ Strain free objectives without 0.17 mm cover glass correction

⁽³⁾ The reflected 50 W illumination attachment of the IS.1052-PLPOLRi and IS.1053-POLRi models are equipped with a 360° rotatable polarization filter, analyzer, Bertrand lens, 1 λ first red plate, 1/4 λ retardation plate, a quartz wedge, slider with green and blue filter. External 240 or 115 Vac/ 12 Dc 4.16 A power supply

⁽⁴⁾ The iScope® polarization models are supplied with one eyepiece with crosshairs and one eyepiece with crosshairs and 10/100 micrometer

^{*} No cover glass correction

^{**} With 0.17 mm cover glass correction

MATERIALS SCIENCE ATTACHMENT

with reflected NeoLED™ epi-illumination

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

IS.9720 Blue filter in slider Green filter in slider IS.9722

IS.9724 Yellow filter in slider IS.9726 White filter in slider

IS.9727 Polarizer 0-90° in slider for materials science

attachment (IS.9230)

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

IS.9731 Slider with green and blue filters

IS.9515 Metal plain insert for mechanical stage

IS.9518 Glass plain insert for mechanical stage

microscopes

IS.9503

AE.5040

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 T2 adapter for Canon EOS SLR digital camera

Large ceramic stage for iScope. Only with new

T2 adapter for Nikon D SLR digital camera AE.5025

MISCELLANEOUS

IS.9501-ADD Stage with ergonomical low-positionned X-Y adjustments of mechanical stage. Right handed.

Add-on price, only with new microscopes

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

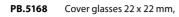
circular polarization stage

DISPOSABLES

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



thickness 0.13 - 0.17 mm, 100 pieces

PB.5245 Lens cleaning paper, 100 sheets per pack

PB.5255 Immersion oil, n = 1.515 (25 ml)

PB.5274 Cleaning liquid, isopropanol alcohol 99%

(200 ml)

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

tissue, brush, air blower and cotton swabs



■ IS.9608-R 360° Rotatable analyzer in slider



IS.9602-R Polarizer



■ IS.9604-R Quartz wedge in slider



■ IS.9610-R Lambda plate first red 530 nm

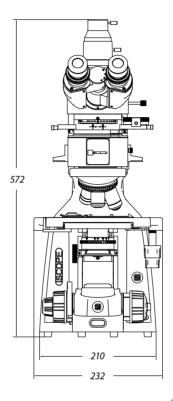


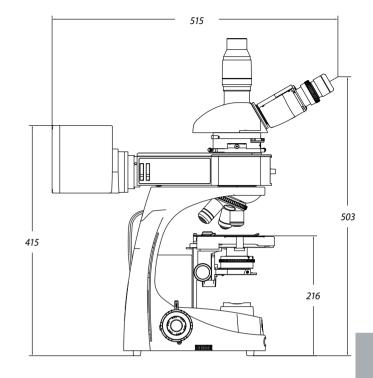
■ IS.9612-R Lambda/4 retardation plate in slider



IS.9727 Polarizer 0-90° in slider

DIMENSIONS













bScope®

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 the 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



























TRINOCULAR MODEL BS.1053-PLMi

HIGHLIGHTS

- Materials science microscopes
- Trinocular models
- WF 10x/22 mm evepieces
- 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)

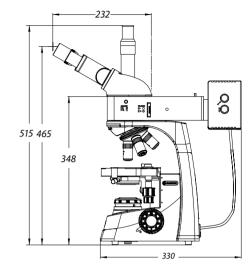
HEAD

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)

Trinocular light path selector 100-0/0-100



DIMENSIONS



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 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 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

FOCUSING

Double coaxial, low-positioned coarse and fine adjustments with 180 graduations. Precision 1.1 μ m, 200 μ m 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 AA 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

CARRYING GRIP

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

Analyzer and rotatable push-pull polarizer



Reflected illumination with rotating color filter disc



Ergonomic carrying grip for easy transportation



ANTI-THEFT SLOT

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

PACKAGE CONTENT

Smart polystyrene 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	•	•	•	•	•

Optional: PLMi 100x IOS objective

ACCESSORIES AND SPARE PARTS

EYEPIECES	MISCELLA	NEOUS

BS.6310	WF 10x/22 mm eyepiece, Ø 30 mm tube	AE.1370	Set of rechargeable AA batteries, three pieces
BS.6310-M	WF 10x/22 mm eyepiece, Ø 30 mm tube with	BS.9577-L	Add-on for left handed mechanical stage (only
	10/100 micrometer		with new purchased microscope
BS.6315	WF 15x/12 mm eyepiece, Ø 30 mm tube	BS.9515	Metal plain insert for mechanical stage
BS.6399	Pair of eyecups, Ø 30 mm tube	BS.9518	Glass plain insert for mechanical stage
		AE.5226	Glass fuses 3A 250V, 10pcs

OBJECTIVES

BS.8105	Plan M-IOS 5x/0.12 infinity corrected
	objective. WD 26.1 mm
BS.8110	Plan M-IOS 10x/0.25 infinity corrected objective.
	WD 20.20 mm
BS.8120	Plan M-IOS 20x/0.40 infinity corrected objective.
	WD 8.80 mm
BS.8150	Plan M-IOS 50x/0.70 infinity corrected objective.
	WD 3.68 mm
BS.8180	Plan M-IOS 80x/0.80 infinity corrected objective.
	WD 1.25 mm
BS.8100	Plan M-IOS 100x/0.85 infinity corrected objective.
	WD 0.40 mm
11/0	D

WD = working distance

POLARIZATION

BS.9602	Analyzer in mount for under nosepiece
BS.9645	Polarizer, for lamphouse
BS.9601-R	Polarizer in slider for reflected illumination
	attachment

CAMERA ACCESSORIES

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

Nylon bag for bScope. 58(h) x 32(w) x 24(d)

DISPOSA	DISPOSABLES				
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 = 1.515				
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

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 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 numerical aperture objectives and a 200 mm focal length

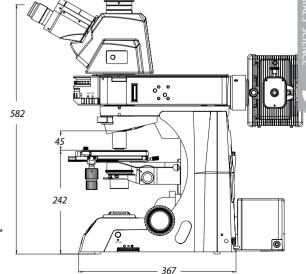


Revolver with slot for Nomarski DIC slider

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

DIMENSIONS



Plan semi-apo PLMi (BF/DF)	DX.81xx		5x/0.15, WD 20 mm	10x/0.30, WD 11 mm	20x/0.45, WD 3.1 mm		
Plan apo PLMi (BF/DF)	DX.81xx					50x/0.80, WD 1 mm	100x/0.90, WD 1 mm ⁽¹⁾
Plan semi-apo PLPOLRi (2) strain-free	DX.79xx		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	100x/0.90, WD 1 mm ⁽¹⁾
Plan PLPOLi (BF/POL) (3) strain-free	DX.79xx	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

DX.81xx objectives are 45 mm parfocal and have a M26 x 0.7 mounting thread

DX.79xx objectives are 60 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

WD = working distance

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)



The eye-level riser can raise the eye-point height by 25.4 mm (DX.9885)



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

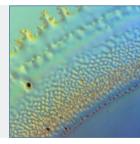
The Delphi-X Observer™ materials science microscope is equipped with epi and diascopic intensity adjustable 100 W halogen illumination with internal 100-240 Vac power supply. The diascopic halogen illumination comes with two push-in/ push-out neutral density filters for smooth attenuation of the light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

MODELS	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)
DX.2053-PLMRi	•		O		•	•	О	•	•	0
DX.2058-PLMRi		•	0		•	•	0	•	•	0
DX.2053-PLMi	•		0		•		0		•	0
DX.2058-PLMi		•	0		•	•	0		•	0
DX.2053-PLPOLRi	•		О		•	•	0	•	•	0
DX.2058-PLPOLRi		•	0		•	•	0			0
DX.2053-PLPOLi	•		О	•		0	0	•		0
DX.2058-PLPOLi		•	0			0	0			0

^{*} 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.7910-R	Infinity EIS 60 mm plan Semi-apochromatic
	for Ø 30 mm tube		PLPOLi 10x/0.30 strain-free objective.
DX.6010-CN	Super wide field SWF 10x/25 mm eyepiece		WD 11 mm. No cover glass correction
	with 10/100 micrometer and crosshairs	DX.7920-R	Infinity EIS 60 mm plan Semi-apochromatic
	for Ø 30 mm tube		PLPOLi 20x/0.45 strain-free objective.
DX.6210	Super wide field SWF 10x/22 mm eyepiece		WD 3.0 mm. No cover glass correction
	for Ø 30 mm tube	DX.7950-R	Infinity EIS 60 mm plan apochromatic
DX.6210-CM	Super wide field SWF 10x/22 mm eyepiece		PLPOLi 50x/0.80 strain-free objective. WD 1 mm.
	with micrometer and crosshairs		No cover glass correction
	for Ø 30 mm tube		
DX.6012	Wide field WF 12.5x/17.5 mm eyepiece	DX.7904-T	Infinity EIS 60 mm plan PLPOLi 4x/0.10 strain-
	for Ø 30 mm tube		free objective. WD 20 mm. With 0.17 mm cover
DX.6015	Wide field WF 15x/16 mm eyepiece		glass correction
	for Ø 30 mm tube	DX.7910-T	Infinity EIS 60 mm plan PLPOLi 10x/0.25 strain-
DX.6020	Wide field WF 20x/12 mm eyepiece		free objective. WD 10.2 mm. With 0.17 mm cover
	for Ø 30 mm tube		glass correction
DX.6099-L	Eyecup for eyepiece	DX.7920-T	Infinity EIS 60 mm plan PLPOLi 20x/0.40 strain-
DX.6099-N	Eyeshade for eyepieces		free objective. WD 12 mm. With 0.17 mm cover

INFINITY CORRECTED OBJECTIVES

(all DX.81xx below have a M26 x 0.7 thread, 45 mm parfocal)

DX.8102	Infinity EIS 45 mm plan PLMi 2x/0.06 objective.		glass correction
	WD 7.5 mm *	DX.7960-T	Infinity EIS 60 mm plan PLPOLi 60x/0.80 strain-
DX.8105	Infinity EIS 45 mm plan semi-apochromatic		free objective. WD 0.3 mm. With 0.17 mm cover
	SAMi 5x/0.15 objective. WD 20 mm *		glass correction
DX.8110	Infinity EIS 45 mm plan semi-apochromatic	DX.7900-T	Infinity EIS 60 mm plan PLPOLi S100x/1.25
	SAMi 10x/0.30 objective. WD 11 mm *		strain-free oil-immersion objective. WD 0.2 mm.
DX.8120	Infinity EIS 45 mm plan semi-apochromatic		With 0.17 mm cover glass correction
	SAMi 20x/0.45 objective. WD 3.0 mm *	WD = worki	ng distance
DX.8150	Infinity EIS 45 mm plan apochromatic		
	PLAMi 50x/0.80 objective. WD 1 mm *	POLARI	ZATION ATTACHMENT
DX.8100	Infinity EIS 45 mm plan apochromatic	with transm	itted illumination
	PLAMi 100x/0.90 objective. WD 1 mm	DX.9604	Slider with quartz wedge plate

^{*} No cover glass correction

(all DX.79xx below have a M25 x 0.7 thread, 60 mm parfocal)

DX.7905-R Infinity EIS 60 mm plan Semi-apochromatic PLPOLi 5x/0.15 strain-free objective. WD 20 mm. No cover glass correction

OLARIZATION ATTACHMENT

glass correction

DX.7940-T Infinity EIS 60 mm plan PLPOLi 40x/0.65 strain-

free objective. WD 0.7 mm. With 0.17 mm cover

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

DX.9610 Slider with Lambda plate first red

DX.9612 Slider with Lambda/4 plate

DX.9602 Slider with rotatable polarizer to be inserted in

condenser of transmitted illumination



POLARIZATION ATTACHMENT

with incident illumination

DX.9602-R Slider with rotatable polarizer to be inserted in reflected illumination attachment

DX.9604-R Slider with guartz wedge plate for reflected illumination attachment

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

DX.9610-R Slider with 1 lambda first plate red for reflected illumination attachment

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
DX.9835	C-mount with high resolution relay 0.35x
	objective for 1/3 inch C-mount camera
DX.9850	C-mount with high resolution relay 0.50x
	objective for 1/2 inch C-mount camera
DX.9863	C-mount with high resolution relay 0,63x
	objective for 2/3 inch C-mount camera
AE.5130	Universal SLR-adapter with built-in 2x lens fo
	standard 23.2 mm tube. Needs T2 adapter
AE.5025	T2 adapter for Nikon D SLR-digital camera

T2 adapter for Canon EOS SLR-digital camera

Side single photoport attachment

MISCELLANEOUS

DX.9696 DIC attachment for materials sciences Delphi-X Observer[™] models DX.9704 Yellow filter for lamphouse, diameter 45 mm 25.4 mm eye-level riser (1 inch) DX.9885 DX.9887 40 mm nosepiece and stage lowering attachment DX.9961 100 Watt 12 V halogen bulb for Delphi-X Observer[™] (revision-2 models) AE.5216 Fuses 5A 250 V, per 10 pcs. models with 100 W halogen DX.9522 Optional 30 x 30 mm X-Y mechanical stage for

polarization microscopes

PB.5245 Lens cleaning paper, 100 sheets per pack

DISPOSABLES

PB.5255	Immersion oil, 25 ml. Refraction index $n = 1.515$
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, 16pc
	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





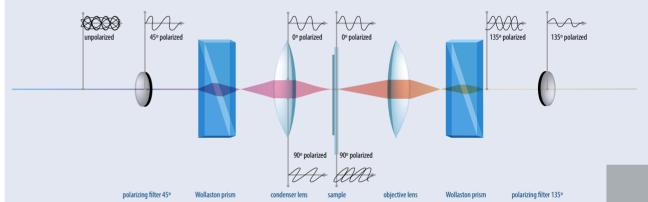
about

differential interference contrast

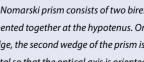
Differential interference contrast (DIC) technique helps in microscopy to enhance the contrast of samples

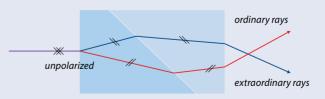
The technique is based on interferometry to obtain information about the small difference in optical path length between two orthogonally polarized light rays coming from the sample

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

AE.5040

DX.9800

TECHNICAL

FACTS





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

SPECIFICATIONS

EYEPIECES

OX.3245

an Allen screw

HEAD

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



NOSEPIECE

Reversed nosepiece for a maximum of five objectives on ball bearings

OBJECTIVES

(IOS-infinity corrected system)

Standard configurations equipped with infinity corrected 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

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

Reflected illumination unit with oblique lighting feature









laboratories and by other professionals

and state-of-the-art components, these

microscopes can be widely used for routine

Thanks to the high resolution optics

and fundamental applications















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





OX.3240

368.6

DIMENSIONS

-293.5-

294

479.5

304.3

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		•	0	•	•

o = optional

ACCESSORIES AND SPARE PARTS

EYEPIECES

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

OBJECTIVES

AE.3172	Plan achromatic M-IOS PL 5x/0.15 objective.	
	WD 10.8 mm	
AE.3173	Plan achromatic M-IOS PL 10x/0.30 objective	
	WD 12.2 mm	
AE.3175	Plan achromatic M-IOS PL 20x/0.45 objective	
	WD 4 mm	
AE.3177	Plan semi apochromatic M-IOS 50x/0.55	
	objective.* WD 7.9 mm	
AE.3179	Plan semi apochromatic M-IOS 100x/0.80	
	objective.* WD 2.1 mm	
* No cover alass correction		

No cover glass correction WD = working distance

POLARIZATION ATTACHMENTS

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)	
	(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)

Glass fuses 3.15 A 250 V, 10 pieces

DISPOSABLES

AE.3199

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

PB.5245 Lens cleaning paper, 100 sheets

Plain stage







HIGHLIGHTS

- Materials science applications
- Observation of materials science samples
- Brightfield, dark field, polarization
- DIC (differential interference contrast)
- Long working distance IOS plan (semi-)apochromatic objectives
- Revolving sextuple nosepiece
- 100 W halogen illumination

SPECIFICATIONS

EYEPIECES

Pair of HWF plan 10x/22 mm

HEAD

Trinocular 45° inclined tubes. Interpupillary distance of 47 to 78 mm. Trinocular head with 100-0, 50/50 and 0/100 positions. **Built-in Bertrand lens**

627.5

NOSEPIECE

Revolving sextuple nosepiece on ball-bearings. With DIC slot



Bertrand lens and trino/eyepieces selector

OBJECTIVES - 45 MM PARFOCAL

High numerical, infinity (semi-)apochromatic bright-/darkfield objectives. Long working distance, IOS, no cover glass correction, M26 mount

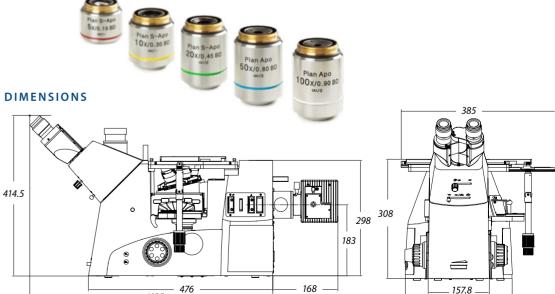
• Plan Semi-Apochromatic (SAMi): 5x/0.15 WD 20 mm, 10x/0.30

WD 11 mm, 20x/0.45 WD 3.1 mm

• Plan Apochromatic (Plan Apo (PLAMi): 50x/0.80 WD 1 mm and optional 100x/0.90 WD 1 mm

WD = working distance

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





samples













DI.1053-PLMI 414.5 (h) x 385 (w) x 627.5 mm (d) | 29 kg

DI.1053-PLMI

275.9

STAGE

Stage 340 x 230 mm, equipped with a coaxial mechanical 130 x 85 mm X-Y stage

Supplied with:

- Metal insert with hole ø 20 mm
- · Metal insert with hole ø 28 mm
- · Metal insert with drop-shaped hole

Maximum weight for sample: 30 kg

MAGNIFICATION CHANGER

A magnification changer with a 1.5x lens allows intermediary magnifications of 1.5 times the standard objective magnifications. For example, switching from 20x or 50x to 30x to 75x magnification can be done without the need to change objectives



The Delphi-X Inverso has a 6-position multifunctional wheel, supplied with cubes for two brightfield, one darkfield and one polarization filter. Slider with prisms for the 5x/20x and 50x/100x magnifications and slider with analyzer. See photo 1

ADDITIONAL SLIDER SLOTS

Besides a field diaphragm and condenser aperture, two slots are available. A slider with two neutral density filters is also supplied. See photo 2

FOCUS ADJUSTMENT

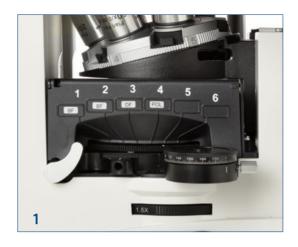
Low positioned coaxial with 10 mm coarse and fine adjustments focusing knobs, 1 µm precision and with friction adjustment

CAMERA PORTS

Beside the standard photo port of the head, there are two other photo parts at both both left and right side of the microscope. See photo 3

ILLUMINATION

Transmitted 100 W halogen Intensity adjustable with internal 100-240 V power supply. Fuse holder 1 A / 250 V







MODELS	Trino	LWD Plan Semi-Apo 5/10/20x	LWD Plan Apo 50x	LWD Plan Apo 100x	100 W Halogen illumination	DIC
DI.1053-PLMI	•	•	•		•	0
DI.1153-PLMI	•	•	•	•	•	О

o = optional

ACCESSOIRES

EYEPIECES

LILITE	
Ø 30 mm	
DI.6010	Super wide field SWF $10x/25 mm f$ ocusable
	eyepiece for Delphi-X Inverso
DI.6010-C	Super wide field SWF 10x/25 mm eyepiece
	with crosshairs
DI.6010-M	Super wide field SWF 10x/25 mm eyepiece
	with micrometer
DI.6010-CN	Super wide field SWF 10x/25 mm eyepiece
	with micrometer and crosshairs
DI.6010-SG	Super wide field SWF 10x/25 mm eyepiece
	with 20 x 20 square grid reticle
DI.6210	Super wide field SWF 10x/22 mm focusable
	eyepiece for Delphi-X Inverso
DI.6012	Wide field WF 12.5x/17.5 mm eyepiece
	for Ø 30 mm tube for Delphi-X Inverso
DI.6015	Wide field WF 15x/16 mm eyepiece
	for Ø 30 mm tube for Delphi-X Inverso
DI.6020	Wide field WF 20x/12 mm eyepiece
	for Ø 30 mm tube for Delphi-X Inverso

DI.6099-L Eyeshade for eyepieces

OBJECTIVES 45 MM PARFOCAL

M26 mounting thread, no cover glass correction Infinity Plan Semi-Apochromatic PLMi 5x/0.15 IOS BD objective, working distance 20 mm DI.8110 Infinity Plan Semi-Apochromatic PLMi 10x/0.30 IOS BD objective, working distance 11 mm DI.8120 Infinity Plan Semi-Apochromatic PLMi 20x/0.40 IOS BD objective, working distance 3.1 mm DI.8150 Infinity Plan Apochromatic PLMi 50x/0.80 IOS BD objective, working distance 1 mm DI.8100 Infinity Plan Apochromatic PLMi 100x/0.90 IOS BD objective, working distance 1 mm BD = brightfield/darkfield

DIFFERENTIAL INTERFERENCE CONTRAST (DIC)

DI.9691-52 DIC prism for nosepiece of materials science Delphi Inverso model. To be used with Plan Semi-Apochromatic 5x/20x objectives **DI.9691-51** DIC prism for nosepiece of materials science Delphi Inverso models. To be used with Plan Apochromatic 50x/100x objectives DIC analyzer for nosepiece for life science DI.9698 Delphi-X Observer DIC

MISCELLANEOUS

DI.9810	C-mount with 1x magnification for 1 or 2/3 inch
	C-mount camera
DI.9840	C-mount with 0,4x magnification for 1/3 inch
	C-mount camera
DI.9850	C-mount with 0,5x magnification for 1/2 inch
	C-mount camera





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

or plastics

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

















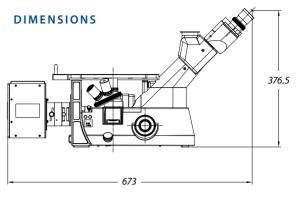


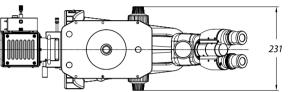
OX.2153-PLM / OX.2653-PLM

OX.2153-PLM

HIGHLIGHTS

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





SPECIFICATIONS

EYEPIECES

Pair of 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 S100x/0.80 IOS objective. No cover glass correction

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

STAGE

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

- metallic insert 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 - Ø 30 MM

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



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 = lona workina distance

ACCESSORIES AND SPARE PARTS

EP		

OM 4040 LUME 40 (00

OX.6010	HWF 10x/22 mm eyepiece
OX.6015	HWF 15x/16 mm eyepiece
OX.6110	HWF $10x/22 \text{mm}$ eyepiece with micrometer reticule
OX.6099	Pair of eyecups

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*.

WD 12.2 mm

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

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

OX.8200 Plan semi apochromatic PLM S100x/0.80 IOS objective*. WD 2.1 mm

* No cover glass correction WD = working distance

STAGE AND ACCESSORIES

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 s

Large stage with X-Y mechanical stage



FILTERS - Ø 30 MM

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
DR 5168	Cover glasses 22 v 22 mm thickness

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

PB.5245 Lens cleaning paper, 100 sheets per pack

PB.5255 Immersion oil, n = 1.515 (25 ml) PB.5274 Isopropyl alcohol 99% (200 ml)

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

about

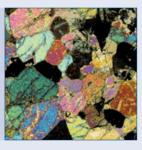
petrological microscopy

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

Conventional brightfield microscopes are turned into a petrological microscope by: replacing the conventional rectangular stage with a circular 360° rotating stage

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

Mineral petrology



Crocodolite asbestos fiber

TECHNICAL FACTS

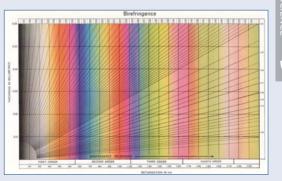
The most common compensators are:

 1λ 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

industry

digital solutions



digital solutions

Get ready to discover the digital world of microscopy with the newest Euromex digital products. The broad 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





MACROZOOMS • PAGE 346

WIFI CAMERA • PAGE 354

USB CAMERAS • PAGE 355

HD CAMERAS • PAGE 358

COOLED COLOR CAMERAS • PAGE 360

TABLET CAMERA • PAGE 362

SOFTWARE • PAGE 364 ADAPTERS • PAGE 366





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 x260 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 polystyrene

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.4600

HD screen





connected to an external stand-alone



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

HIGHLIGHTS

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



SPECIFICATIONS*

MACROZOOM OBJECTIVE

Single 0.7 to 5x zoom objective. Working distance 105 mm An optional 3D attachment enables a 45° angle observation

STAND

- Metal 320 x 260 mm pillar stand
- · Also suitable for NexiusZoom stands

ILLUMINATION

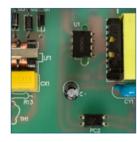
An external (not supplied) illumination system should be used, such as LE.1973, LE.1974, LE.5212 or LE.5207

BUILT-IN CAMERA

Built-in HD 1080p high definition 2 MP 1/2.8" CMOS high speed camera, 1920 x 1080 pixels and 60 images per second

BUILT- IN SOFTWARE

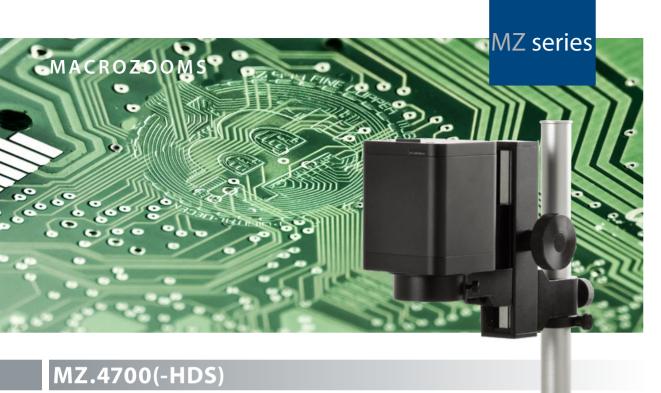
The built-in on-screen software (only English language) is mouse driven and features camera and measurement functions







^{*} See for more specifications chapter 7



digital autofocus macrozoom

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









saving .jpg or .bmp format

video on an USB memory stick

pictures and .mp4 format











HIGHLIGHTS

Stand-alone digital autofocus MacroZoom

Sony 1/2.8" 1080P CMOS sensor 20x optical zoom ratio

Optical zoom factor up to 5.6x

On-screen magnification from from 2.8 to 47x

190 mm Working distance

Optional attachable LED ring light

Optional directional LED ring light

Built-in mouse-driven software

2 Years warranty



SPECIFICATIONS

ZOOM OBJECTIVE

- The 16 elements objective has a 20x zoom ratio and produces magnifications up to 0.56 magnification with a manual or automatic focussing function
- Field of views from 220 x 120 mm (1x zoom) to 11 x 6 mm (20x zoom) @190 mm standard WD
- On-screen magnification 2.8 to 47x @190 mm WD (24" screen)
- Focusing range is between 156 and 196 mm WD = working distance

CAMERA

- The 2 MP camera is equipped with a Sony 1/2.8 inch 1080P CMOS High Definition sensor with high signal-tonoise ratio generating a 1080p 1920 x 1080 pixels video streaming up to 60 images per second
- The HD signal fits the HDMI input of a HD screen
- Image and video storage is done with a built-in SD card

BUILT-IN SOFTWARE

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

ILLUMINATION

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

STAND

- The MacroZoom can be mounted on a dedicated pole stand with or without a dedicated HD screen
- With the 30° directional 12x 1W LED ring light (MZ. 4735,) the MacroZoom (MZ.4705) can also be mounted on the NexiusZoom stands

PACKAGE CONTENT

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

ORDER PRODUCT REFERENCES

MZ.4700 Stand-alone digital autofocus MacroZoom (1)

with standard (2) stand

MZ.4700-HDS Stand-alone digital autofocus MacroZoom (1)

with standard (2) stand and HD screen

MZ.4705 Stand-alone digital autofocus MacroZoom (1)

MZ.4710 Standard (2) stand for MZ.4705

MZ.4712 11 inch HD screen for MZ.4710 inclusief pillar

attachment

MZ.4730 Standard LED ring light

MZ.4735 Directional 12 x 1W LEDs ring light (2)

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

⁽²⁾ With the MZ. 4735 a MZ.4705 can also be mounted on NexiusZoom stands



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















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

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
- 2 Years warrantv



Adjustable screen

SPECIFICATIONS

CENTRAL ZOOM OBJECTIVE

The Digital MacroZoom MZ.5000 features a single zoom objective with a 0.7 to 5x zoom magnification. Zoom adjustment engravings on 1, 1.5, 2, 3, 4 and 5x. The working distance is 105 mm. Supplied with a 0.5x additional lens with a working distance of 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 5500 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

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



The CMEX-5 WiFi-3 1080p camera is equipped with a 5.0 MP Sony CMOS sensor with 12 bits grayscale conversion and a 24 bits color rendering and it can be used either through the USB data interface or through the WiFi interface

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

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

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

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

The camera is powered by the included USB charger or a computers USB port. Standard 0.37x 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-3	CMOS	1/2.8"	3.9 x 3.9	1920 x 1080	12 bits	24 bits	60	66.5	1.3	DC.5000-WiFi-3

The CMEX-5 WiFi-3 camera is supplied in a box with USB cable, 30.0 and 30.5 mm adapters to use with stereo microscopes, and a 0.37x 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

Besides capturing images and videos, the ImageFocus Plus software allows measurements on still and live images and annotations on captured images. Compatible with Windows 10 and 11, both 32 and 64 bits configurations. A Mac OS version is also available. Free software 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

Besides capturing images and videos, the ImageFocus Alpha software allows measurements on still and live images and annotations on captured images. Compatible with Windows 10 and 11, 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 software can be downloaded from our website

MODELS	Sensor	Sensor size (inch)	Pixels size (μm)	Exposure time	Resolutions	Max. frames (p/sec)	Signal/ Noise (dB)	Dynamic (dB)	Sensitivity 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

with scientific grade sCMOS sensor

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

Besides capturing images and videos, the ImageFocus Alpha software allows measurements on still and live images and annotations on captured images. Compatible with Windows 10 and 11, 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 software 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)	S/N Ratio (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	30	36 bits	88	50	0.43	DC.32000s

The sCMEX cameras are supplied in a carton box with USB-2.0 cable, 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscopes, 1 mm/100 (10 µm/division) calibration slide. The DC.3000s is supplied with a 0.37x objective, the DC.6000s is supplied with a 0.5x objective, the DC.20000s and DC.32000s are supplied with a 1.0x adapter



High definition 1080p and 4K

CMOS color cameras

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

STAND-ALONE MODE

To use these cameras you do not need a computer or have any computer knowledge. Most camera settings are done automatically and therefore these cameras are very user-friendly. This results in faster, more flexible and compact working conditions. Simply connect the camera to a high definition dedicated 11.6" HD screen, TV-HD or HD-beamer with a HDMI input and the system is ready to go. The mouse driven built-in software of the camera enables captured images and recorded videos to be saved on the integrated SD memory card

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

COMPUTER CONTROLLED MODE

Users who want more camera controls and more functions can also connect the camera to a computer and benefit from the extensive functions of the Euromex ImageFocus software. It runs on Windows 10 and 11, both 32 and 64 bits. Besides extended camera settings, the software can save images in JPG, TIFF or BMP formats and record videos in .avi format on the hard disk of the computer. The software offers different measurement functions on live and captured images and also full control over the camera parameters

HIGHLIGHTS

- UHD 2160p, HD 1080p 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
- HDMI, USB-2.0/3.0
- GbE (Ethernet) (VC.3042)
- WiFi (VC.3042 and VC.3034)
- Autofocus model available
- Compatible with ImageFocus software



VC.3034-HDS on the BioBlue

PACKAGE CONTENT*

MODELS	UHD-4K	HD-Ultra	HD-Lite	HD-Mini	HD-Mini +HDS	HD-Autofocus	HD-Pro
C-mount with objective	0.5x	0.37x	0.45x	0.5x	0.5x	0.5x	0.37x
Interface(s)	Digital HDMI, USB-2, WiFi	Digital HDMI, USB-2	Digital HDMI, USB-2	Digital HDMI	Digital HDMI	Digital HDMI, WiFi	Digital HDMI, USB-2
30 and 30.5 mm adapters	•	•	•	•	•	•	•
SD card	32 GB	16 GB	8 GB	32 GB	32 GB	32 GB	32 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)	88 x 78 x 65	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.3042	VC.3036	VC.3031	VC.3023		VC.3034	VC.3039
With 11.6" HD screen	VC.3042-HDS	VC.3036-HDS	VC.3031-HDS		VC.3024-HDS	VC.3034-HDS	VC.3039-HDS

^{*} See for more information chapter 7



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

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 10 and 11, 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	٠	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

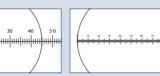
CALCULATING FOV OF AN EYEPIECE

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

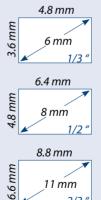
900 nm FOV with 10x/18

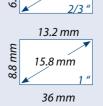
eyepiece and S20x objective

FIELD OF VIEW WITH CAMERA

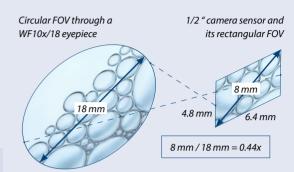
Most commercially available microscope digital cameras use 1/3, 1/2- or 2/3-inch rectangular sensors. A few will use a 1 inch camera sensor

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%

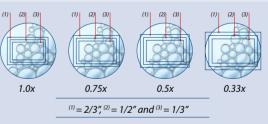


Figure: different camera sensor sizes (2/3, 1/2, 1/3 inch) with different "demagnifying" lenses (C-mount photo-adapters) 0.33x, 0.50x, 0,75x and 1.0x

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



ProPad tablet

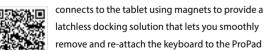
with microscope camera and keyboard-docking station

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

The ProPad consists of a high quality microscope camera system and a fully detachable tablet running the latest ImageFocus version.

You can take it anywhere

Together with the included attachable keyboard, you can use it as a microscope imaging system, tablet and laptop. The keyboard



SOFTWARE

ProPad-2, ProPad-5 and ProPad-12 work with ImageFocus Plus. ProPad-WiFi works 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 \$\sqrt{\psi} 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	1 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		1 2.0	PP.12000f
ProPad-WiFi	5.0	1/2.8"	1920 x 1080	3.9 x 3.9	12 bits	24 bits	61 dB	1.3	# (♠ ♠	PP.5000-WiFi

All ProPad models are supplied with a C-mount objective that fits the standard 23.2 mm trinocular tubes

SOFTWARE

The software is compatible with all cameras mentioned in table below. Besides live imaging the software captures images in various formats and video in .avi format

IMAGE FOCUS 4	
DC.1300c	

IMAGE FOCUS PLUS							
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.3039	VC.3042							

IMAGE STITCHING

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

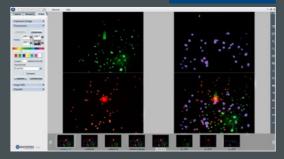
EXTENDED DEPTH OF FOCUS

"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

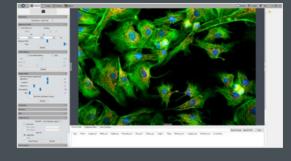
software

- 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 10 and 11, 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 images can be adjusted
- Camera parameters for exposure time, white balance and color control are easily accessible
- The software also has specific functions for fluorescence such as combining captured fluorescence images
- Compatible with Windows 10 and 11, 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





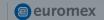
ImageFocus Alpha

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
- The brightness, contrast and saturation of captured images can be adjusted
- Camera parameters for exposure time, white balance and color control are easily accessible
- The software also has specific functions for fluorescence such as combining captured fluorescence images
- Compatible with Windows 10 and 11, 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 adapterto connect it to any Euromex trinocular microscope*. Monocular microscopes require the removal of the eyepiece so that the camera can be fitted into the 23.2 mm tube. Binocular microscopes require the removal of an eyepiece plus an additional mechanical adapter * 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 ac	dapter wit	h 0.45x ol	bjective fo	or 1/2	2" cai	mera

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











AE.5120-2

PHOTO PORT ADAPTERS

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





ILLUMINATION SOLUTIONS • PAGE 370

DISSECTION INSTRUMENTS • PAGE 378

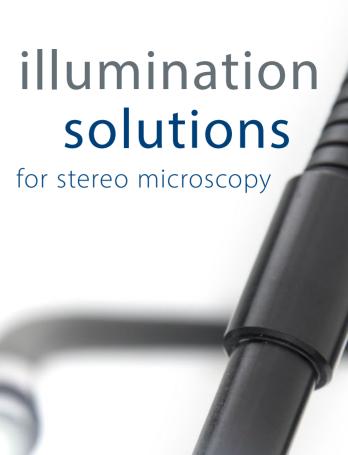
DISSECTION KITS • PAGE 380

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DISPOSABLES • PAGE 394

STAINS • PAGE 395

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

illumination solutions

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 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 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

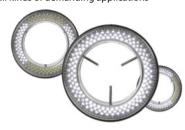


Economical dual LED intensity adjustable light source with two 44 cm flexible gooseneck arms, each mounted with a 3 W LED. Ideal for applications in life and materials sciences, various industrial applications and for stereo microscopy

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

144 LEDS RING LIGHT SOURCE • LE.1973

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		
working distance: Mounting Power supply External diameter	from 50 to 180 mm for stereo head with diameter from 25 to 61 mm 100-240 V AC / 12 V DC (50/60 Hz) / 4 Watt 100 mm		

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

MODELS	3 W gooseneck guide LED	4 W white LED ring light	2 W white LED transmitted light stage
LE.5212	White LED, 6,500 K	•	•
LE.5212-365	365 nm, monochrome	•	•
LE.5212-395	395 nm, monochrome	•	•
LE.5212-420	420 nm, monochrome	•	•

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.52	213 Single arm fiber light conductor,	LE.5235-3	Dual arm flexible fiber light conductor,
	gooseneck self-sustaining,		300 cm long, 4 mm diameter
	50 cm long, 4 mm diameter	LE.5217	Triple arm flexible fiber light conductor,
LE.52	214 Dual arm fiber light conductor,		100 cm long, 4 mm diameter
	gooseneck self-sustaining,	LE.5218	Single arm flexible fiber light conductor,
l	50 cm long, 4 mm diameter		100 cm long, 8 mm diameter
LE.52	Triple arm fiber light conductor,	LE.5220	Single arm flexible fiber light conductor,
	gooseneck self-sustaining,		200 cm long, 8 mm diameter
	50 cm long, 4 mm diameter	LE.5222	Focusing head for focusing lens LE.5224, LE.5228
LE.52	Dual arm fiber light conductor,		or filters LE.5229 and LE.5231
	gooseneck self-sustaining,		(for fiber light conductors)
	70 cm long, 4 mm diameter	LE.5224	Focusing lens. Requires LE.5222 or LE.5228 for
LE.52	239 Slit ring-shaped fiber light conductor		mounting on LE.5213, LE.5214 and LE.5215
	60 cm long, 8 mm diameter	LE.5228	Focusing head with iris diaphragm
LE.52	241 Flexible fiber light conductor,		(for fiber light conductors)
	curved 90°, 60 cm long, 4 mm diameter	LE.5231	Conversion KB12/80B filter
LE.52	216 Single arm flexible fiber light conductor,		
	100 cm long, 4 mm diameter	HALOG	EN BULBS AND FUSES
LE.52	Dual arm flexible fiber light conductor,	SL.5219	Halogen 100 W 12 V bulb with reflector
	100 cm long, 4 mm diameter		(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

FOR LE.1980 AND LE.1981		
LE.1984-05	D Fresnel lens, WD from 40 to 80 mm	
LE.1984-100	LE.1984-100 Fresnel lens, WD from 80 to 150 mm	
LE.1984-200 Fresnel lens, WD from 150 to 240 mm		
LE.1984	Diffusing filter, for WD from 40 to 300 mm	
LE.1985	Glass protection window	
LE.1987	Polarizing filter	
LE.1888	Rotatable polarizing filter	
LE.1992	100-230 V power supply analog controller.	
	Intensity adjustable from 0-100%	
LE.1993	100-230 V power supply digital segment	

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

FOR LE.1990 AND LE.1991

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

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











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
PB.5058	Section lifter with wooden handle

PB.5060 Serrated thumb dressing forceps, length 13 mm

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

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

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

Dissecting forceps with finely PB.5069 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.

PB.5084

With plastic handle

PB.5103





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

HANDHELD MICROTOMES

MT.5501 Cylinder microtome. Identical to MT.5500 but

without knife and wooden cabinet

MT.5503 Handheld microtome.

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



dissection 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	
SZ.1655	Daphnia sp., water flea, w.m	
SZ.1715	Musca domestica, house fly, mouth parts	
SZ.1717	Musca domestica, house fly, leg with clinging pads	

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

BOTANY

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

histology, zoology and botany set

PB. 5212 FOR EDUCATION

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

HISTOLOGY

SH.1005	Hyaline cartilage rabbit, se
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

3H.1430	Cerebrum section, dog	-
		:
ZOOLO	OGY	:
SZ.1520	Paramecium, w.m	:
SZ.1625	Schistosoma Japonicum, fluke eggs, bilharziose	:
SZ.1630	Taenia, tapeworm cattle, mature proglottid, w.m	:
SZ.1635	Ascaris megalocephala, horse roundworm,	:
	female + male, c.s	
SZ.1708	Apis mellifica, honey bee, mouth parts	
SZ.1725	Periplaneta, cockroach, mouth parts of chewing type	
SZ.1730	Pieres brassicae, cabbage-white butterfly,	
	mouth, w.m	
SZ.1750	Periplaneta, cockroach, spiracle of insect, w.m	

BOTANY

SB.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
l.s	longitudinal section
w.m	whole mount

histology, zoology and botany set

PB. 5213 FOR EDUCATION

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

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

HISTOLOGY

SH.1006	Elastic cartilage, rabbit	SH.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

1
e

BOTANY

Zea mays, corn root tip with hairs, I.s
Helianthus, sunflower, old root, c.s
Monocot/dicot plant roots, zea mays/helantius, c.s
Solanum tuberosum, potato, starch grains
Tilia, lime tree, one year stem, c.s
Hydrilla stem, c.s
Pelargonium hortorum, geranium, stem c.s
Mnium, antheridial branch, l.s
Mnium, archegonial branch, l.s
Coprinus, ink caps mushroom, section of pleus
Spirogyra sp. in conjugation

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

histology, zoology and botany set

PB. 5214 FOR EDUCATION

SZ.1877 Rana sp, frog, blood smear

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.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	

SH.1060 Tendon I.s (Dense connective tissue), dog

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

Z

			SB.2222	Capsella, shepherds' purse, ovary w. embryo in
ZOOLOGY			cotyledon stadium, l.s	
	SZ.1610	Planaria, flat worm, injected intestinal tube, w.m	SB.2234	Pinus, pine tree, pollen, w.m
	SZ.1636	Ascaris megalocephala, horse roundworm,	SB.2330	Marchantia, liverworts, thallus with gemma cup, c.s
		mitosis eggs	SB.2360	Saccaromyces sp., yeast, budding, w.m
	SZ.1760	Ctenocephalus canis, dog flea, w.m	SB.2365	Penicillium sp., w.m
	SZ.1770	Tetranychus, red spider mite, w.m	SB.2410	Streptococus lactis, milk bacteria, smear
	SZ.1930	Bird, wing and down feather, section	SB.2415	Bacillus subtilis, hay bacteria, smear
	SZ.1940	Chicken, embryo 48 hours, sagittal section		

BOTANY

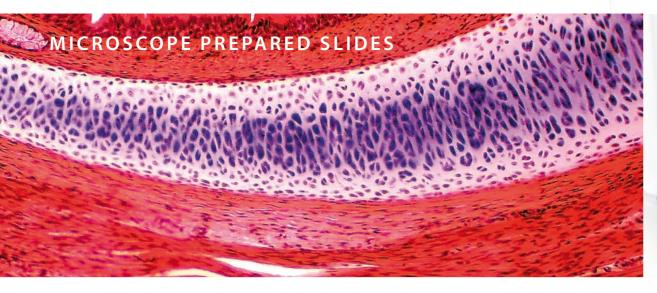
SB.2090 Hydrilla verticillata, hydrilla stem tip, l.s SB.2112 Cucurbita, pumpkin, stem, c.s

SB.2135 Nerium oleander, leaf with sunken stomata, c.s SB.2210 Lilium, lily, anther with mature pollen, c.s

SB.2214 Lilium, lily, pollen, different stages of meiosis SB.2220 Capsella, shepherds' purse, ovary w. embryo in

pre-cotyledon stadium, l.s

	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

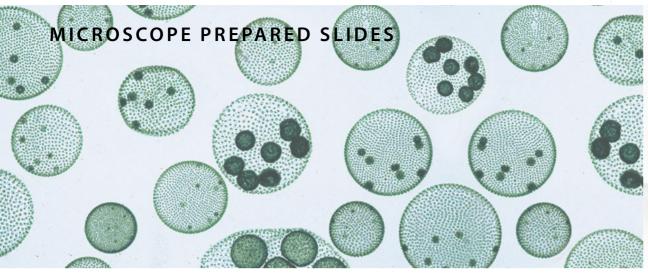
salivary gland, w.m

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

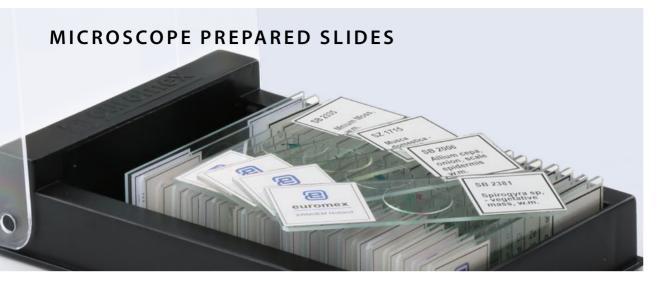
SH.1072 Skin section through hair follicle, human SH.1150 Blood smear human, Giemsa stained **SH.1415** Motor nerve cells with end plates, rabbit w.m. SH.1470 Taste buds, rabbit, l.s.

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



individual euroslides

prepared slides

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

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



individual euroslides for histology

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

EPHITELIUM AND CONNECTIVE TISSUES

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

SH.1006 Elastic cartilage, rabbit

SH.1011 Hard bone grinding, human, section

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

SH.1040 Smooth muscle, teased preparation, rabbit. 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
I.s longitudinal section	
w.m	whole mount



individual euroslides for zoology

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

PROTOZOA

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

COELENTERATA

SZ.1580 Hydra with bud, w.m

HELMINTHES

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

CRUSTACEANS

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

INSECTS

SZ.1705	Apis mellifica, honey bee, posterior leg, w.m
SZ.1708	Apis mellifica, honey bee, mouth parts
SZ.1710	Apis mellifica, honey bee compound eye, c.s
SZ.1719	Musca domestica, house fly, wing, w.m
SZ.1720	Culex pipiens, house mosquito, larva, w.m
SZ.1722	Culex pipiens, house modquito, female,
	mouth parts
SZ.1724	Drosophila, fruit fly, giant chromosomes
	of calivary gland wm

J	Brosophila, traitiny, glarit chromosomes
	of salivary gland, w.m
SZ.1730	Pieres brassicae, cabbage-white butterf

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

SZ.1733	Pieres brassicae, cabbage-white butterfly, part of wing
SZ.1738	Locusta, grasshopper, mouth parts, w.m

SZ.1760	Ctenocephalus	canis, doc	flea, w.m
	eterro cepriara.	, cas, a.o.g	,

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

AMPHIBIANS

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

HOW TO ORDER INDIVIDUAL EUROSLIDES

Minimum purchase quantity is 10 pieces of the same slide

The individual slides always have to be ordered together with a storage box (e.g. PB.5181 for 25 slides)

individual euroslides for botany

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

ROOTS

SB.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,

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

stem with crok cambium and lenticels, 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



STAINS

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





MISCELLANEOUS ACCESSORIES

PB.5200 Staining trough for 10 slides

PB.5210 Fine pointed brush

PB.5276

PB.5245 Lens paper. 100 sheets

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

PB.5255 Immersion oil, refractive index nD = 1.515, (25 ml)

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

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

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

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

tissue, brush, air blower, cotton swabs

PB.5276 Microscope maintenance and servicing kit, 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.5286 - PB.5297

(DISSOLVED) STAINS

Astra Blue

Supplied in 25 ml bottles

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

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

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

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

of animal tissues PB.5295 Safranine. A general stain for showing nuclei and cellulose walls. To be used in combination with

PB.5297 Methylene Blue. Biological and bacteriological stain

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

PB.5305 Fuchsine. For staining bacilli in tissue



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 398

REFRACTOMETERS • PAGE 402

POLARIMETERS • PAGE 408

SPECTROMETERS • PAGE 410





MAGNIFIERS & MEASURING MICROSCOPES



handheld magnifiers

and magnifiers with handles



FOLDING MAGNIFIERS

Aplanatic magnifier 6x, doublet. PB.5016 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

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. 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

MEASURING MICROSCOPES

PB.5008 Measuring microscope 20x with LED illumination. Measuring scale 7.2 mm with 0.1 mm graduation

PB.5010 Measuring microscope 40x with LED illumination. Measuring scale 3 mm with 0.05 mm graduation

PB.5012 Measuring microscope 60x with LED illumination. Measuring scale 1.75 mm with 0.02 mm graduation

PB.5014 Measuring microscope 100x with LED illumination. Measuring scale 1.1 mm with 0.01 mm graduation

















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 400 ABBE REFRACTOMETER • PAGE 403





refractometers

handheld and table models

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

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

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

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

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

							Handheld model	Fable model	бо	<u>n</u>
Application	Art no	Range	2	Accuracy	Remarks	ATC	Han	Tabl	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, wine and monitoring	RF.6510	0 - 10	Brix	0.1		•	•		•	
of oil emulsions	RF.6520	0 - 20	Brix	0.1		•	•		•	
	RF.6532	0 - 32	Brix	0.2		•	•		•	
	RF.6562	28 - 62	Brix	0.2		•	•		•	
	RF.6580	0 - 80	Brix	0.5		•	•		•	
	RF.6582	45 - 82	Brix	0.5		•	•		•	
	RF.6592	58 - 92	Brix	0.2		•	•		•	
	RF.6635	0 - 150 0 - 35 0 - 27 0 - 22 0 - 37	Brix °KMW %	1 0.2 0.2 0.2 0.5	Oechsle units Sugar concentration Babo units % volume	•	•		•	
	RD.6735	0 - 150 0 - 35 0 - 25 0 - 22	Brix °KMW	1 0.1 0.1 0.1		•	•			•
	RD.6645	0 - 45 1.33 - 1.41		0.1 0.0003		•	•			•
	RD.6666	0 - 80 1.33 - 1.51		0.5 0.0005		•	•			•
	RD.6667	58 - 92 1.43 - 1.52		0.2 0.0003		•	•			•
Honey	RF.6642	13 - 25	%	0.1	Honey moisture	•	•		•	
	RF.6644	58 - 92 38 - 43 12 - 27	°Be	0.5 0.5 1	Water	٠	•		•	
Concentration of sugar/alcohol %	RF.6627	0 - 25 0 - 40	%	0.2 0.2 0.2	% volume	•	•		•	
Salinity and concentration of sugar	RF.6610	0 - 100 0 - 10 1.00 - 1.07	Brix	1 0.1 0.005		•	•		•	
	RF.6628	0 - 28	%	0.2		•	•		•	
	RD.6728	0 - 28 0 - 45 1.33 - 1.41	Brix	0.1 0.1 0.0003	% NaCl Only for sugar/salt	٠				•
Clinical applications Proteins	RF.6612	0 - 12 1.00 - 1.05 1.333 - 1.360	sg	0.2 0.002 0.0003	Proteins in serum Urine specific gravity	•	•		•	



Application	Art no	Range	Accuracy	Remarks	ATC	Handheld model	fable model	Analog	Digital
	RF.6614	2 - 14 g/dl 1.00 - 1.06 sg 1.00 - 1.06 sg	0.1 0.001 0.001	Proteins in serum Urine specific gravity (dog) Urine specific gravity (cat)		•	•		_
	RD.6712	0 - 12 g/dl 1.00 - 1.05 sg 1.33 - 1.39 R.I.	0.1 0.001 0.0001	Proteins in serum Urine specific gravity	•	•			•
	RD.6714	0 - 14 g/dl 0 - 14 g/dl 1.00 - 1.06 sg 1.00 - 1.06 sg 1.33 - 1.39 R.I.	0.1 0.1 0.001 0.001 0.0001	Proteins in serum (dog) Proteins in serum (cat) Urine specific gravity (dog) Urine specific gravity (cat)	•	•			•
Battery Acid/Coolant	RF.6650	1.10 - 1.40 sg -50 / 0 °C -50 / 0 °C -40 / 0 °C	0.01 5 5 10	Battery fluids Ethylene glycol G13 Propylene glycol G11/12 windshield washer fluid	٠	٠		•	
	RD.6730	1.0 - 1.50 sg -50/0 °C -50/0 °C -40/0 °C	0.01 0.5 0.5 0.5	Battery fluids Ethylene glycol G13 Propylene glycol G11/12 windshield washer fluid	•	•			•
AdBlue/Urea	RF.6652	0 - 40 %	0.2		•	•		•	
Identification of precious stones	RF.6381	1.30 - 1.81 R.I.	0.01				٠	•	

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)

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

Substance identification of sugar concentration

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							

The Abbe refractometer can be connected to a water bath for measuring at a controlled temperature. During the use of this type of refractometer the use of a cold light source such

as the LE.5209 is recommended. This Abbe table refractometer has scales for measurement of sugar concentrations and refractive indices. Delivered with carrying case, digital thermometer, calibration plate, adjusting tool and with 0.5 ml calibration liquid





euromex 407

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

99.197 Spare sodium 589.3 nm lamp

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)

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	•		•



handheld spectroscopes

SP.5200

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

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



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

SP.5155

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

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



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			

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, StereoBlue. NexiusZoom, DZ series

RECOMMENDED MODELS

• mining	Extraction of minerals for identification, quantitative	iScope® (materials and polarization),
	and qualitative evaluation of minerals	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®, 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 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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CMEX Pro USB-3.0 cameras		90	254	356
CMEX USB-2.0 cameras		88	253	355
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Handheld spectroscopes

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ATERIALS SCIENCE

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