

Euromex MICROSCOPE COLLECTION 2016

PART 1

MICROSCOPES FOR EDUCATION

PART 2 MICROSCOPES FOR LABORATORIES

PART 3

MICROSCOPES FOR INDUSTRY



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2016		
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EDUCATION | **BIOLOGICAL MICROSCOPES** MicroBlue • EcoBlue • BioBlue • BioBlue.Lab • B and B+ series

EDUCATION | STEREO MICROSCOP EduBlue • StereoBlue • NexiusZoom • AP series

EDUCATION | DIGITAL SOLUTIONS Digital microscopes • USB Cameras • Software • HD cameras WIFI camera • Tablet cameras • CCD camera • Adapters

LABORATORIES | LIFE SCIENCE MICROSCOPES iScope • Oxion • BioBlue.Lab • B and B+ series • Oxion Inverso iScope (fluorescence) • Oxion (fluorescence) • B+ series (fluorescence)

LABORATORIES | STEREO MICROSCOPES NexiusZoom • StereoBlue • DZ series • Z series • P series

LABORATORIES | DIGITAL SOLUTIONS Digital microscope • USB Cameras • Software • HD cameras WiFi camera • Tablet camera • CCD cameras • Adapters

INDUSIRY | SIEREO MICROSCOPES NexiusZoom (ESD) • StereoBlue • DZ series • Z series • BE-50 series • P series

INDUSTRY | MATERIALS SCIENCE MICROSCOPES iScope (material & polarization) • Oxion Inverso (material) • Oxion (material) • B series (material

INDUSTRY | DIGITAL SOLUTIONS USB Cameras - Software - HD cameras - WIFI camera - Tablet camera - CCD camera - Adapters

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

OTHER | OPTICAL INSTRUMENTS Magnifiers & measuring microscopes • Refractometer • Polarimeter • Spectroscopes • PathoScan



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

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

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

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

Choose the right EuromexMicroscope

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

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LifeScience

Laboratories



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LABORATORIES LIFE SCIENCE MICROSCOPES



LifeScience Laboratories

Euromex offers a broad range of microscopes for life sciences, which are used by many researchers and biologists worldwide

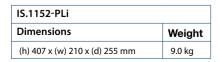
Within the next pages you will find details about our different models and we will get you introduced to new technologies in microscopy like the iCare sensor, CSS system and new LED technology, which brings Euromex users to the next level of microscopy



iScope[®]

The iScope[®] is available in various configurations suitable for Life and Biomedicial Sciences, high schools, universities but also for routine medical applications

Besides the brightfield contrast method, configurations for phase contrast, cardioid mirror dark field, basic polarization and several epiillumination sources for fluorescence applications can be used. iScope[®] models with multiheads are also available for teaching purposes



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				Köhler)	NFINITY.
		O PHASE	ABBE		
	100-240V				

HIGHLIGHTS

- EWF 10x/22 mm and EWF10x/20 mm eyepieces
- Binocular and trinocular models
- Optional multiheads
- Optional tilting head
- Quintuple reversed nosepiece
- E-plan, plan and plan phase objectives
- E-plan, plan and plan phase infinity corrected IOS objectives
- 140 mm x 160 mm stage
- 216 mm x 150 mm rackless stage
- Optional ceramic stage
- Height adjustable Abbe condenser N.A. 1.25
- Cardioid mirror dark field condenser with 5 W NeoLED[™] illumination
- Diascopic intensity adjustable 3 W NeoLED[™] Köhler illumination with internal 100-240 V power supply
- iCare sensor for energy saving
- CSS Cable Storage System
- 10 years warranty

TECHNICAL SPECIFICATIONS

EYEPIECES

- Extended Wide Field EWF plan 10x eyepieces with 20 mm field of view and adjustable diopter on the left eyepiece for finity corrected systems (Ø 23.2 mm tube)
- Extended Wide Field HWF plan 10x eyepieces with 22 mm field of view and adjustable diopter on both eyepieces for infinity corrected IOS plan and plan phase systems and adjustable diopter on the left tube for EPLi systems (Ø 30 mm tube)

HEADS

Binocular and trinocular Siedentopf type heads with 30° inclined tubes. Interpupillary distance from 48 to 76 mm. \pm 5 diopter adjustment(s). A unique rotating system allows the ergonomic positioning of both tubes in a high (431 mm) and in a low position (397 mm). The trinocular head comes with a Ø 23.2 mm photo port



ERGONOMICAL TILTING HEAD

Optional ergonomic 5 to 35° tilting head, interpupillary distance 48-75 mm and optional photo attachment with standard Ø 23.2 mm tube (only infinity corrected models) *To order an iScope with tilting head use reference IS.1158-xxx*

MULTIHEAD SYSTEM

The iScope[®] can be extended with a unique multihead system for in total 2, 3 or 5 heads allowing simultaneous observation of specimens.

The central attachment is equipped with a joystick to move a green and red laser pointer across the entire field of views of all heads. Configurations with one, two or four additional viewing binocular heads, 30° inclined tubes and plan 4x, 10x, S40, S100x oil immersion infinity corrected IOS objectives. Each extra viewing binocular head is equipped with extended wide field plan EWF 10x/20 mm eyepieces (references: IS.1156-PLi-x, x = total number of heads)

TECHNICAL SPECIFICATIONS

OBJECTIVES

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

(1) optional

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

NOSEPIECE

Revolving guintuple reversed nosepiece for max. 5 objectives

STAGES

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

integrated 79 x 52 mm X-Y mechanical stage

• 140 x 160 mm stage equipped with

LIFE SCIENCE

- 216 x 150 mm rackless stage equipped with double slide holder and integrated 79 x 52 mm X-Y mechanical stage. The iScope® rackless stage has no protruding parts, enables more smooth movements and is safe
- 220 x 157 mm ceramic stage with integrated 75 x 50 mm X-Y mechanical stage protects with a very tough ceramic surface against marks and scratches. The surface also ensures stray light not to be reflected from the stage into the objective

The iScope[®] can be supplied with a heating stage which can be set up to 50° Celsius by a PID temperature controller. Only available with new purchased microscopes. Higher temperatures can be achieved on special request

CONDENSER FOR BRIGHTFIELD

The standard height adjustable Abbe N.A. 1.25 condenser for brightfield accepts sliders with phase annuli suitable for plan phase 10x/20x or S40x/S100x oil immersion IOS objectives for economical phase contrast. With magnification indication A slider with a simple dark stop for dark field up to 400x magnification is also available

CONDENSER FOR ZERNIKE PHASE

CONTRAST

An optional height adjustable Zernike NA. 1.25 phase contrast disc condenser with plan phase 10/20/S40x and S100x oil immersion objectives and dark field stop position for dark field contrast up to 400x magnification

CONDENSER FOR DARK FIELD

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

Cardioid dark field condenser with integrated power supply is only available on models IS.1152-PLi/DF and IS.1153-PLi/DF. By using IS.9150 and 86.521 an existing brightfield microscope can be upgraded to dark field.

FOCUSING

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

ILLUMINATION

3 W adjustable Köhler NeoLED[™] diascopic illumination with internal 100-240 V power supply

The innovative NeoLED[™] design offer larger apertures, allowing the optical system of the iScope® microscope to produce images at higher resolutions, very close to the

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

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

ICARE SENSOR

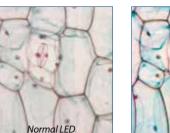
The unique iCare Sensor is developed to avoid unnecessary loss of energy. The illumination of the microscope automatically switches off shortly after microscopists step away from their position

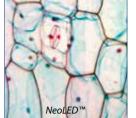
CSS – CABLE STORAGE SYSTEM

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

ACCESSORIES AND SPARE PARTS

- IS.6099 Pair of eyecups for finity models IS.6299 Pair of evecups for infinity models IS.9102 Standard Abbe condenser 1.25 NA with slot for dark field and phase contrast sliders IS.9105 Swing-out 0.9/1.25 NA condenser **IS.9150** Cardioid dark field condenser with integrated 5 W LED light source and external 100-240 V mains adapter Plan PL S100x/1.25 oil immersion objective
- 86.521 with iris diaphragm
- IS.9600 Polarization filter for lamp house
- IS.9700 Blue opaque filter for lamp house
- IS.9702 Green opaque filter for lamp house
- IS.9704 Yellow opaque filter for lamp house
- IS.9710 White opaque filter for lamp house
- SL.5500 NeoLED[™] replacement unit for iScope
- 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





PACKAGING

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

YOUTUBE

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

- **PB.5168** Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces **PB.5245** Lens cleaning paper, 100 sheets per pack
- PB.5255 Immersion oil, n = 1.482 (25 ml)
- PB.5274 Isopropyl alcohol 99% (200 ml)
- PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs



^(a) euromex ⁹⁹

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SPECIFICATIONS (FINITY)

LABORATORIES

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			IS.1152 -EPL	IS.1153 -EPL	IS.1152 -PLPH	IS.1153 -PLPH	Product number
Models	Binocular	•		•			
	Trinocular			•		•	
Eyepieces	EWF 10x /20 mm	Ø 23.2 mm tube	•	•	•	•	IS.6010
	EWF 10x /20 mm	with pointer	0	0	0	0	IS.6010-P
	EWF 10x /20 mm	with 10 / 100 micrometer and cross hair	0	0	0	0	IS.6010- CM
	EWF 15x /16 mm	Ø 23.2 mm tube	0	0	0	0	IS.6015
	EWF 20x /12 mm	Ø 23.2 mm tube	0	0	0	0	IS.6020
	Pair of eyecups		0	0	0	0	IS.6099
Diopter	Adjustment on left s	ide	•	•	•	•	
Objectives	E- Plan EPL	4x/0.10	•	•	•	•	IS.7104
	E- Plan EPL	10x/0.25	•	•			IS.7110
	E- Plan EPL	20x/0.40	0	0			IS.7120
	E- Plan EPL	S40x / 0.65	•	•			IS.7140
	E- Plan EPL	S60x / 0.85	0	0			IS.7160
	E- Plan EPL	S100x / 1.25	•	•			IS.7100
	Plan phase PLPH	10x/0.25			•	•	IS.7710
	Plan phase PLPH	20x/0.40			•	•	IS.7720
	Plan phase PLPH	S40x / 0.65			•	•	IS.7740
	Plan phase PLPH	S100x / 1.25			•	•	IS.7700
Filter	Polarization for lamp house	45 mm	0	0	0	0	IS.9600
	Yellow opaque for lamp house	45 mm	0	0	0	0	IS.9704
	White opaque for lamp house	45 mm	0	0	0	0	IS.9710
Stage	Mechanical stage	140 x 160 mm	•	•	•	•	
	Large ceramic stage Only with new purchased mi		0	0	0	0	IS.9503
Illumination	3 W NeoLED™		•	•	•	·	
iCare Sensor			•	•	•	•	
Köhler			0	0	0	0	IS.9880
Zernike phase contrast set	With PLPH 10/20/40/100x objectives and rotating phase contrast condenser with bright and dark field position*		0	0	•	•	IS.9124
Telescope for phase contrast	Ø 23.2 mm tube	0	0	•	•	IS.9149	
Phase contrast slider set	With PLPH 10/40x o slider*	bjectives and	0	0			IS.9160
	With PLPH 20/100x of slider*	objectives and	0	0			IS.9161
Slider	With dark field stop		0	0			IS.9170

(• = standard, O = optional, * With green opaque filter)

MODELS FOR DARK FIELD

Special models for dark field observation IS.1152-PLi/DF and IS.1153-PLi/DF are supplied with a state-of-the-art condenser equipped with reflective cardioid mirrors and a high powered 5 W LED. Together with a S100x objective with built-in iris diaphragm real 1,000x magnification dark field solution can be achieved. All other specifications are identical to models IS.1152-PLi and IS.1153-PLi

SPECIFICATIONS (INFINITY)

			IS.1152 -EPLi	IS.1153 -EPLi	IS.1152 -PLi	IS.1153 -PLi	IS.1152 -PLPHi	IS.1153 -PLPHi	Produc numbe
Models	Binocular		•		•		•		
	Trinocular			•		•		•	
Head	Ergonomic tilting	g head IOS series							IS.5700
Photo tube	for IS.5700	Ø 23.2 mm tube							IS.980
Eyepieces	EWF 10x/22mm	Ø 30 mm tube	•	•	•	•	•	•	IS.621
	EWF 10x/22mm	with pointer	0	0	0	0	0	0	
	EWF 10x/22 mm	with 10 / 100 micrometer and cross hair	0	0	0	0	0	0	IS.6210 CM
	EWF 15x/ 16 mm	Ø 30 mm tube	0	0	0	0	0	0	IS.621
	EWF 20x/ 12 mm	Ø 30 mm tube	0	0	0	0	0	0	IS.622
Diopter	Adjustment on le	oft side		•					
	Adjustment on b							•	
Objectives IOS	E- Plan EPLi	4x/0.10	•	•					IS.8804
	E- Plan EPLi	10x / 0.25							IS.881
	E- Plan EPLi	20x / 0.40	0	0					IS.882
	E- Plan EPLi	S40x / 0.65	•	•					IS.884
	E- Plan EPLi	S100x / 1.25 oil	•	•					IS.880
	Plan PLi	4x / 0.10			•	•			IS.720
	Plan PLi	10x / 0.25			•	•			IS.721
	Plan PLi	20x / 0.25			0	0			IS.722
	Plan PLi	S40x / 0.65			•	•			IS.724
	Plan PLi	S60x / 0.85			0	0			IS.726
	Plan PLi	S100x / 1.25 oil			•	•			IS.720
	Plan phase PLPHi	10x/ 0.25					•	•	IS.891
	Plan phase PLPHi	20x/ 0.40					•	•	IS.892
	Plan phase PLPHi	S40x/ 0.65					·	·	IS.894
	Plan phase PLPHi	S100x/ 1.25 oil					•	•	IS.890
Stage	Mechanical rackl 216 x 150 mm	ess stage	·	·	·	·	·	·	
		ige 220 x 157 mm ed microscopes (add suffix /C)	0	0	0	0	0	0	IS.950
Illumination	3 W NeoLED™		·	•	·	·	•	•	
iCare Sensor			•	•	•	•	•	•	
Köhler			0	0	·	·	•	•	IS.988
Zernike phase contrast set	With PLPHi 10/20 objectives and ro contrast conden and dark field po	0	0	0	0	·	·	IS.912	
Telescope for phase contrast	Ø 30 mm tube		0	0	0	0	•	•	IS.914
Phase contrast slider set	With PLPH 10/40: and slider*	x IOS objectives	0	0	0	0			IS.916
	With PLPH 20/100 and slider*)x IOS objectives	0	0	0	0			IS.916
Slider	With dark field st	ор	0	0	0	0			IS.917
1	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								

(• = standard, O = optional, * With green opaque filter)

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Oxion

The microscopes of the Oxion series are dedicated to professionals in Life Sciences applications, laboratories of universities or research centers

LIFE SCIENCE MICROSCOPES

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



OX.3025 TO OX.3065							
Dimensions	Weight						
(h) 397 x (w) 185 x (d) 294 mm	7.5 kg						

OO BINO					Köhler)	
NeoLED			O PHASE	ABBE		
		100-240V				

HIGHLIGHTS

- HWF 10x/22 mm eyepieces
- Binocular, trinocular and multihead systems
- Optional tilting head
- Reversed nosepiece for maximum 5 objectives
- Semi plan, plan and plan phase contrast IOS objectives
- 150 x 140 mm stage
- Optional ceramic stage
- Abbe condenser and Zernike condenser for phase contrast
- 3 W LED illumination for brightfield and phase contrast
- 5 W LED illumination for dark field applications
- Ergonomical stand and head
- 10 years warranty



LIFE SCIE

With ceramic stage - OX.3035

TECHNICAL SPECIFICATIONS

EYEPIECES

HWF 10X/22 mm eyepieces with \pm 5° diopter adjustements on both eyepieces. The mulithead systems OX.56xx are supplied with WF10x/20 mm eyepieces and a joystick for the positioning of a pointer in the field of view of the eyepieces. All eyepieces can be secured with an Allen screw

HEAD

Binocular and trinocular Siedentopf type heads with 30° inclined tubes. Interpupillary distance from 50 to 75 mm. An unique rotating system allows an ergonomical positioning of both tubes in an upper (431 mm) and in a lower position (397 mm). The multihead systems are available with 2, 3 or 5 heads

MULTIHEADS SYSTEM

The Oxion can be extended with a unique multihead system for in total 2, 3 or 5 heads that allow simultaneous observation of specimens The central attachment is equipped with a joystick to move a green and red laser pointer across the entire field of views of all heads.

Configurations with one, two or four viewing binocular heads, 30° inclined tubes and plan 4x, 10x, 540, 5100x oil immersion infinity corrected IOS objectives. Each extra viewing binocular head is equipped with high wide field plan HWF 10x/20 mm eyepieces

(reference models OX.5602, OX.5603 and OX.5605)

NOSEPIECE

Reversed nosepiece for a maximum of 5 objectives on ball bearings

OBJECTIVES - IOS INFINITY CORRECTED SYSTEM

- Semi plan 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
- Plan 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
- Plan phase contrast 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
- Plan semi apochromatic fluarex 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives

All S40x, S60x and S100x oil immersion objectives are spring loaded. All optics have an anti-reflection coating for maximum light throughput and are anti-fungus treated

MODELS

LIFE SCIENCE

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MODELS									
	Bino	Trino	Semi plan 4x/10x/S40x/S100x IOS objectives	Plan 4x/10x/S40x IOS objectives	Plan S100x IOS objective	Plan semi apo 4x/10x/S40x/ S100x objectives	Plan semi apo S100x IOS objectives	Plan phase 10x/20x/S40x/S100x IOS objectives	Plan phase 10x/S40x/S100x IOS objectives
OX.3012	•		•						
OX.3015		•	•						
OX.3020	•			•					
OX.3025		•		•					
OX.3030	•			•	•				
OX.3035		•		•	•				
OX.3040	•							• (1)	
OX.3045		•						• (1)	
OX.3042	•								• (2)
OX.3047		•							• (2)
OX.3050	•					•			
OX.3055		•				•			
OX.3060	•					•	•		
OX.3065		•				•	•		
OX.3064		•		•	• (3)				
OX.5602		• (4)		•	•				
OX.5603		• (5)		•	•				
OX.5605		• (6)		•	•				

(1) Plan phase objectives supplied with AE.3184 condenser with 4 phase contrast rings
(2) Plan phase objectives supplied with AE.3183 condenser with 3 phase contrast rings and one stop for dark field
(3) Supplied with cardioid mirror dark field oil immersion condenser and S100x objective with built-in iris diaphragm
(4) Multihead system, supplied with a trinocular and one binocular heads
(5) Mutihead system, supplied with a trinocular and four binocular heads
(6) Multihead system, supplied with a trinocular and four binocular heads

STAGE

- 150 x 140 mm stage with integrated X-Y mechanical stage
 A ceramic stage is also available on request
 The Oxion can be supplied with a heating stage which can be set up to 50° Celsius by a PID temperature controller. Only available for new microscopes. Higher temperatures can be
- achieved on special request

CONDENSER FOR BRIGHTFIELD

Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm. Phase contrast rings mounted in slider can be inserted in the condenser for 10x and S40x or 20x and S100x phase contrast objectives. A dark field stop in slider for the 10x, 20x and S40x objectives can also be inserted with magnification indication

CONDENSERS FOR ZERNIKE PHASE CONTRAST

Two optional height adjustable Zernike NA. 1.25 phase contrast disc condensers are available:

- with plan phase 10/20/540x and S100x oil immersion objectives
- with plan phase 10/S40x/S100x oil immersion objectives and dark field position for dark field contrast up to 400x magnification

FOCUSING

Coaxial coarse and fine adjustments, 200 graduations, 1 µm per graduation, 200 µm per rotation, total travel approximately 28 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control

CARDIOID MIRROR CONDENSER FOR DARK FIELD

The OX.3064 model is supplied with a condenser with cardioid mirrors, a 5 W integrated NeoLED[™] illumination and a S100x objective with built-in iris diaphragm for real 1,000x dark field observations. By using AE.3612-O and 86.521 an existing brightfield microscope can be upgraded to dark field

ILLUMINATION FOR DARK FIELD

5 W NeoLED[™] adjustable illumination (for model OX.3064)

ILLUMINATION FOR BRIGHTFIELD AND PHASE CONTRAST

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

PACKAGING

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



ACCESSORIES AND SPARE PARTS

- AE.3210
 HWF10x/22mm eyepiece

 AE.3215
 HWF15x/13mm eyepiece

 AE.3223
 HWF10x/22mm eyepiece

 with 10mm/100 micrometer

 AE.3225
 Pair of eyecups
- AE.3160 Semi plan 4x/0.10 infinity corrected IOS objective. Working distance 15 mm
 AE.3162 Semi plan 10x/0.25 infinity corrected IOS objective. Working distance 15 mm
 AE.3166 Semi plan S40x/0.65 infinity corrected IOS
- AE.3270 Semi plan S100x/1.25 oil immersion infinity corrected IOS objective.

Working distance 0.19 mm

LIFE SCIENCE

- AE.3102 Plan 2x/0.06 infinity corrected IOS objective
 - Working distance 4.1 mm

 AE.3104
 Plan 4x/0.10 infinity corrected IOS objective.

 Working distance 11.9 mm
 - AE.3106 Plan 10x/0.25 infinity corrected IOS objective. Working distance 12.1 mm
 - AE.3108 Plan 20x/0.40 infinity corrected IOS objective. Working distance 1.5 mm
 - AE.3110 Plan S40x/0.65 infinity corrected IOS objective. Working distance 0.36 mm
 - AE.3112 Plan S60x/0.85 infinity corrected IOS objective. Working distance 0.30 mm
 - AE.3114 Plan S100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm
 - 86.521
 Plan S100x/1.25 oil immersion infinity corrected

 IOS objective with built-in iris diaphragm



- AE.3144 Plan semi apochromatic fluarex 4x/0.13 infinity corrected IOS objective. Working distance 18.5 mm
- AE.3146 Plan semi apochromatic fluarex 10x/0.30 infinity corrected IOS objective. Working distance 10.6 mm
- AE.3148 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 2.33 mm
- AE.3152 Plan semi apochromatic fluarex S40x/0.75 infinity corrected IOS objective. Working distance 0.6 mm
- AE.3156 Plan semi apochromatic fluarex S100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.21 mm
- AE.3126 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 12.1 mm
- AE.3128 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.5 mm
- AE.3130 Plan phase S40x/0.65 infinity corrected IOS objective. Working distance 0.36 mm
- AE.3134 Plan phase S100x/1.25 oil immersion infinity corrected IOS objective.
- Working distance 0.18 mmAE.3180Telescope for alignment of phase contrast rings
- AE.3183 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, S40x, S100x oil objectives
- AE.3184 Phase contrast Zernike condenser with 4 phase rings and plan phase PLPH 10x, 20x, S40x, S100x oil objectives
- AE.3185 Slider with dark field stop (only for objectives 10x, 20x and S40x)
 AE.3186 Slider phase contrast kit with plan phase 10x/20x/40x/S100x oil objectives
- and 2 sliders with phase contrast rings for PLPH 10x/S40x and 20x/S100x objectives AE.3187 Slider with phase rings
 - for 10x and S40x plan phase contrast objectives

- AE.3189 Slider with phase rings for 20x and S100x oil plan phase contrast objectivesAE.3190 Polarizer/Analyzer set
- AE.3192 Polarizer slider for nosepieceAE.3194 Polarizer for lamp house
- **AE.3196** Frosted filter 45 mm, sits on lamp house
- **AE.3198** Blue filter 45 mm, sits on lamp house
- AE.3200 Yellow filter 45 mm, sits on lamp house
- AE.3202 Green filter 45 mm, sits on lamp house
- OX.5120
 Standard 23.2 mm diameter tube

 (for Oxion photo port)

 AE.5130
 Universal SLR camera adapter for 23.2 mm tubus
- with built-in 2x magnification lens Needs T2 adapter and OX.5120
- AE.5025 T2 adapter for Nikon D digital SLR cameras
- AE.5040 T2 adapter for Canon EOS digital SLR cameras
- **OX.9810** CS/C mount with 1.0x objective
- **OX.9833** C-mount adapter with 0.33x objective for Oxion microscopes and 1/3" cameras
- **OX.9850** C-mount adapter with 0.5x objective for Oxion and Oxion Inverso microscopes and 1/2" cameras



	Only supplied with new purchased microscopes							
AE.3612-O Cardioid dark field condenser with integrated 5 W								
	LED light source and external 100-240 V mains adapter							
SL.5511	LED replacement for Oxion							
AE.3199	Glass fuses 3.15 A 250 V, 10 pieces							
OX.3010	Aluminium transport case with flight case locks							

AE.5168-O Heating stage and temperature controller up to 50°C.

- **OX.3011** Aluminium transport case with classical locks
- PB.5155 Microscope slides 76 x 26 mm, ground edges, 50 pieces
- PB.5165 Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
- **PB.5168** Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
- PB.5245 Lens cleaning paper, 100 sheets per pack
- **PB.5255** Immersion oil, n = 1.482 (25 ml)
- PB.5274 Isopropyl alcohol 99% (200 ml)
 - **PB.5275** Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs



OX.3035



BlueLine

FEATURED

NeoLED

10

- Binocular and trinocular models
- Reversed quadruple nosepiece
- · Plan and plan phase objectives
- · Finity and infinity optical system
- Integrated rackless mechanical stage

These ergonomic easy-to-use microscopes have specifically

An important feature of the BioBlue.Lab is the rackless stage,

which provides a smooth translation of the specimen and

been designed for laboratory and university applications.

The 150 x 140 mm mechanical stage has an integrated

rackless X-Y stage with 75 x 30 mm travel

applications

- NeoLED[™] illumination
- Ergonomic carrying grip
- 10 years warranty



Check out the product video on YouTube and learn more about the BlueLine



OPES

YOUTUBE

YouTube channel: Euromex Optics Group B.V.





BioBlue

BioBlue.Lab

BioBlue.Lab

4

The BlueLine flagship BioBlue.Lab is the ideal laboratory instrument. With a very steady base, infinity corrected optical objectives, phase contrast possibilities it is a high quality all round microscope

All models are equipped with NeoLED[™] illumination system for high resolution images and are available in binocular and trinocular versions



BB.1152-PLi	
Dimensions	Weight
(h) 378 x (w) 190 x (d) 260 mm	5.4 kg
	J

For weight of other products see table



108 **Beuromex**

TECHNICAL SPECIFICATIONS

EYEPIECES

Wide field WF 10x/20 mm eyepieces

HEAD

LIFE SCIENCE

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Binocular and trinocular models have 30° inclined \emptyset 30 mm tubes. The interpupillary distance is adjustable between 48 to 75 mm. All models have a ±5 diopter adjustment on left tube. All heads are 360° rotatable and secured with a screw

NOSEPIECE

Reversed quadruple nosepiece on ball bearings

OBJECTIVES

BioBlue.Lab microscopes are equipped with plan, plan IOS, plan phase and plan phase IOS objectives. Optional 20x/0.40 and S60x/0.85 objectives are also available. The S40x, S60x and S100x objectives are spring loaded. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

FOCUSING

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

MODELS

	Bino	Trino	4x/10x/S40x/ S100x plan objectives	4x/10x/S40x/ S100x plan IOS objectives	10x/20x/S40x/S100x plan phase objective	10x/20x/S40x/S100x plan phase IOS objectives	Rackless mechanical stage	Neo LED	Weight (kg)
BB.1152-PL	•		•				•	•	5.4
BB.1153-PL		•	•				•	•	5.5
BB.1152-PLi	•			•			•	•	5.4
BB.1153-PLi		•		•			•	•	5.5
BB.1152-PLPH	•				•		•	•	5.6
BB.1153-PLPH		•			•		•	•	5.7
BB.1152-PLPHi	•					•	•	•	5.6
BB.1153-PLPHi		•				•	•	•	5.7

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

CONDENSER

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

ILLUMINATION

Binocular and trinocular models are supplied with an adjustable 3 W NeoLED[™] illumination system for increased light output. Integrated 100-240V power supply

PACKAGING

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



ACCESSORIES AND SPARE PARTS

BB.6010	WF 10x/20 mm eyepiece, Ø 30 mm tube	BB.8900
BB.6015	WF 15x/15 mm eyepiece, Ø 30 mm tube	
BB.6110	WF10x/20 mm eyepiece, Ø 30 mm tube	
	with micrometer reticle	BB.7710
BB.6020	WF20x/11 mm eyepiece, Ø 30 mm tube	
BB.6099	Pair of eyecups	BB.7720
BB.8804	Plan DIN 4x/0.10 objective.	BB.7740
	Working distance 17.92 mm	
BB.8810	Plan DIN 10x/0.25 objective.	BB.7700
	Working distance 2.04 mm	
BB.8820	Plan DIN 20x/0.40 objective.	
	Working distance 1.20 mm	BB.9880
BB.8840	Plan DIN S40x/0.65 objective.	
	Working distance 0.65 mm	BB.9900
BB.8860	Plan DIN S60x/0.80 objective.	
	Working distance 0.19 mm	SL.5503
BB.8800	Plan DIN S100x/1.25 oil immersion objective.	
	Working distance 0.18 mm	AE.5130
BB.7204	Plan DIN 4x/0.10 IOS objective.	AE.5040
	Working distance 7.18 mm	AE.5025
BB.7210	Plan DIN 10x/0.25 IOS objective.	
	Working distance 4.80 mm	BB.9732
BB.7220	Plan DIN 20x/0.40 IOS objective.	
	Working distance 5.27 mm	
BB.7240	Plan DIN S40x/0.65 IOS objective.	PB.5155
	Working distance 0.68 mm	
BB.7260	Plan DIN S60x/0.80 IOS objective.	PB.5165
	Working distance 0.50 mm	
BB.7200	Plan DIN S100x/1.25 oil immersion IOS objective.	PB.5168
	Working distance 0.20 mm	
		PB.5245
BB.8910	Plan phase DIN 10x/0.25 objective.	PB.5255
	Working distance 2.04 mm	PB.5274
BB.8920	Plan phase DIN 20x/0.40 objective.	PB.5275
_	Working distance 1.20 mm	
BB.8940	Plan phase DIN S40x/0.65 objective.	
	Working distance 0.65 mm	

.8900 Plan phase DIN \$100x/1.25 oil immersion IOS objective. Working distance 0.18 mm

BB.7710	Plan phase DIN 10x/0.25 IOS objective.
	Working distance 4.7 mm

BB.7720	Plan phase DIN 20x/0.40 IOS objective.
	Working distance 1.75 mm

BB.7740	Plan phase DIN S40x/0.65 IOS objective.
	Working distance 0.72 mm
BB.7700	Plan phase DIN S100x/1.25 oil immersion objective.
	Working distance 0.50 mm

BB.9880 Köhler attachment

BB.9900 Aluminium case

SL.5503 3 W NeoLED[™] replacement unit

AE.5130	Universal SLR camera adapter with 2x projection
	lens for 23.2 mm tubes. Need T2 adapter
AE.5040	T2 ring for Canon EOS SLR digital camera

AE.5025 T2 ring for Nikon D SLR digital camera

- **BB.9732** Polarization filter, 32 mm diameter. Fits in filter holder
- PB.5155 Microscope slides 76 x 26 mm, ground edges, 50 pieces
- **PB.5165** Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
- PB.5168 Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
- PB.5245 Lens cleaning paper.100 sheets per pack
- **PB.5255** Immersion oil, n = 1.482 (25 ml)
- PB.5274 Isopropyl alcohol 99% (200 ml)
 - **PB.5275** Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs

LABORATORIES

HIGHLIGHTS

- Monocular, binocular and trinocular models
- WF 10x/18mm or WF 10x/20mm eyepiece(s)
- Revolving reversed nosepiece for 4 or 5 objectives
- · Semi plan, plan IOS, semi plan phase and plan phase objectives
- Integrated X-Y mechanical stage
- Coaxial coarse and fine adjustment with adjustable rack stop
- Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder
- 1 W LED illumination with rechargeable batteries and integrated power supply
- 20 W halogen illumination with integrated power supply

TECHNICAL SPECIFICATIONS

EYEPIECES

Standard models with wide field WF10x/18 mm eyepieces. The B+ series come with wide field WF10x/20 mm eyepieces. The eyepiece of monocular models can be supplied with a pointer

HEAD

All heads are 360° rotatable and equipped with 30° inclined tubes. Tube length 160 mm. Binocular and trinocular models are equipped with a diopter ± 5 adjustment on the left eyepiece. The interpupillary distance is adjustable between 48 to 76 mm. The B series can also be supplied with a discussion head

NOSEPIECE

Standard models with revolving and reversed guadruple nosepiece, the B+ series has a quintuple nosepiece

OBJECTIVES

A large range of semi plan, plan, semi plan phase, plan phase or plan IOS 4x/0.10, 10x/0.25, S40x/0.65 and S100x oil immersion objectives can be supplied with the B and B+ series. All S40x, S60x and S100x oil immersion objectives are spring loaded.

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

FOCUSING

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

Zernike phase contrast condenser



86.325





B and **B**+ series The well-equipped microscopes of the

IFE SCIENCE MICROSCOPES

B and B+ series are used intensively in the research field, at universities and for veterinary applications. In addition to an excellent ergonomical design, the microscopes of the B and B+ series are available in several configurations

MONOCULAR MODEL 86.010 / 86.019 / 86.060 / 86.0	69
Dimensions	Weight
(h) 375 x (w) 210 x (d) 220 mm	4.75 kg
BINOCULAR MODEL 86.025 / 86.029 / 86.075 / 86.0	79
Dimensions	Weight
(h) 375 x (w) 210 x (d) 220 mm	5.7 kg

TRINOCULAR MODEL	
86.041 / 86.049 / 86.091 / 86.09	9
Dimensions	Weight
(h) 375 x (w) 210 x (d) 220 mm	5.9 kg

Δ

STAGE

LIFE SCIENCE

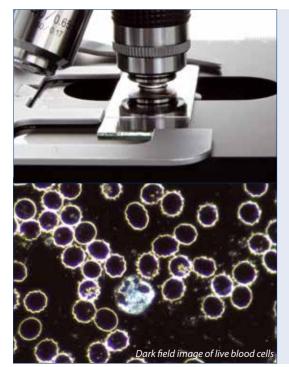
4

125 x 135 mm with mechanical 75 x 35 mm X-Y translation stage and Vernier scale. Removable specimen holder. Stages with heating elements and temperature PID controller are also available on request

CONDENSER

Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder. Models for phase contrast with references 86.3xx are supplied with a Zernike disc condenser with phase contrast rings for 10/20/S40x and S100x phase contrast objectives. Models for phase contrast with references 86.4xx are supplied with a slider with phase ring for S40x phase contrast objective

The 86.091-DFLED model is supplied with an oil immersion condenser with cardioid mirrors, a 5 W integrated NeoLED™ illumination and a S100x objective with built-in iris diaphragm for real 1000x dark field applications



ILLUMINATION

The microscopes of the B and B+ series are equipped with either a 1 W LED adjustable illumination system for increased light output with 3 rechargeable batteries for cordless operation or a 20 W 6 V halogen adjustable illumination. All models have an integrated power supply. 110 and 230 V mains versions available for halogen models

ILLUMINATION FOR DARK FIELD

5 W NeoLED[™] adjustable illumination for model 86.091-DFLED. By using AE.3612 and 86.521 an existing brightfield microscope can be upgraded to dark field

PACKAGING

Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil for models with S100x objective. Models with a 20W halogen illumination are supplied with a spare bulb and a blue filter, models with 1 W LED illumination are supplied with white filter. All packed in a polystyrene box

DARK FIELD

Dark field contrast is typically used for unstained samples. The image seen has the appearance of a dark, almost black background with highlighted bright objects on it, producing very recognizable, often even called spectacular images. These objects, because they are unstained, are hard to see with brightfield contrast. The applications are mostly biological samples, smears from tissue culture or water-borne, single-celled organisms

In the past dark field microscopy was limited due low light levels seen in image. Euromex has overcome this issue by developing very strongly illumination methods, without causing damage to the samples. A 5 W build in high power LED is used to power the special designed cardioid-shaped lens condenser system. Combined with a special 100x objective with built-in iris diafragm for extra contrast this system is unique in its class

MODELS WITH SEMI PLAN OBJECTIVES

	Monocular	Binocular	Trinocular	WF 10 x 18 mm	WF 10 x 20 mm	4 objectives nosepiece	5 objectives nosepiece	Semi plan 4x/10x/S40x/ S100x oil objectives	20 W halogen
86.010	•			•		•		•	•
86.025		•		•		•		•	•
86.041			•	•		•		•	•
86.010-LED	•			•		•		•	
86.025-LED		•		•		•		•	
86.041-LED			•	•		•		•	
86.019-LED	•				•	•		•	
86.029-LED		•			•	•		•	
86.049-LED			•		•	•		•	

MODELS WITH PLAN OBJECTIVES

	Monocular	Binocular	Trinocular	WF 10x 18 mm	WF 10x 20 mm	4 objectives nosepiece	5 objectives nosepiece	Plan 4x/10x/S40x/ S100x oil objectives	20 W halogen
86.060	·			•		•		•	•
86.075		•		•		•		•	•
86.091			•	•		·		·	·
86.060-LED	•			•		•		•	
86.075-LED		·		•		·		·	
86.091-LED			•	•		•		•	
86.069-LED	•				•		•	·	
86.079-LED		·			·		•	•	
86.099-LED			·		•		•	·	

MODELS WITH PLAN IOS AND SEMI PLAN IOS INFINITY CORRECTED OBJECTIVES

	Binocular	Trinocular	WF 10x 18 mm	WF 10x 20 mm	4 objectives nosepiece	5 objectives nosepiece	Semi plan IOS 4x/10x/S40x/ S100x oil objectives	Plan IOS 4x/10x/S40x/ S100x oil objectives	20 W halogen
86.125	·		•		•		·		•
86.141		•	•		•		•		•
86.125-LED	•		•		•		•		
86.141-LED		•	•		•		•		
86.129-LED	•			•		•		•	
86.149-LED		•		•		•		•	

MODEL WITH CARDIOID MIRROR DARK FIELD OIL IMMERSION CONDENSER

	Trinocular	WF 10x 18 mm	4 objectives nosepiece	Plan 4x/10x/s40x objectives	Plan S100x with iris built-in diaphragm	5 W high power LED (built-in)
86.091-DFLED	•	•	•	•	•	•

MODELS WITH SEMI PLAN PHASE CONTRAST OBJECTIVES

	Monocular	Binocular	Trinocular	WF 10 x 18 mm	WF 10 x 20 mm	4 objectives nosepiece	5 objectives nosepiece	Semi plan phase 10x/20x/S40x/S100x oil objectives	20 W halogen
86.310	•			•		•		•	•
86.325		•		•		•		•	•
86.341			•	•		•		•	•
86.310-LED	•			•		•		•	
86.325-LED		•		·		·		·	
86.341-LED			•	·		•		•	
86.319-LED	•				·		•	•	
86.329-LED		·			·		•	•	
86.349-LED			•		·		•	·	

MODELS WITH PLAN PHASE CONTRAST OBJECTIVES

	Monocular	Binocular	Trinocular	WF 10 x 18 mm	WF 10 x 20 mm	4 objectives nosepiece	5 objectives nosepiece	Plan phase 10x/20x/540x/S100x oil objectives	20 W halogen
86.360	•			•		•		•	•
86.375		·		•		·		•	•
86.391			•	•		•		•	•
86.360-LED	•			•		•		•	
86.375-LED		•		•		•		•	
86.391-LED			•	•		·		•	
86.369-LED	·				•		·	•	
86.379-LED		·			·		·	•	
86.399-LED			•		•		•	•	

MODELS WITH SEMI PLAN OBJECTIVES AND PLAN PHASE S40X OBJECTIVE

	Monocular	Binocular	Trinocular	WF 10 x 18 mm	4 objectives nosepiece	Semi plan 4x/10x/ S100x oil objectives	Plan phase S40x	20 W halogen
86.410	•			•	•	•	•	٠
86.425		•		•	•	•	•	•
86.441			•	•	•	·	•	•
86.410-LED	•			•	•	•	•	
86.425-LED		•		•	•	·	•	
86.441-LED			•	•	•		•	

ACCESSORIES AND SPARE PARTS

86.572-P	Wide field eyepiece HWF 10x/18 mm with pointer	86.521
86.572	Wide field eyepiece HWF 10x/18 mm	
86.575	Wide field eyepiece HWF 10x/20 mm	
86.573	Wide field eyepiece WF 15x/12 mm	86.413
80.882	Wide field eyepiece WF 20x/10 mm	
86.574	Micrometer eyepiece HWF 10x/18 mm,	86.414
	10 mm/100, with adjustable eye lens	
AE.1110	Stage micrometer 1 mm, 100 parts	86.417
AE.1111	Stage micrometer 2 mm, 200 parts	
80.839	Eyecup with inner diameter 28 mm	86.420
36.812	Discussion head with one vertical and	
	one oblique tube. Without eyepieces	86.313
86.891	Semi plan SMP 4x/0.10 objective.	86.314
	Working distance 23.13 mm	
86.893	Semi plan SMP 10x/0.25 objective.	86.317
	Working distance 4.09 mm	
86.894	Semi plan SMP 20x/0.40 objective.	86.320
	Working distance 1.97 mm	
86.897	Semi plan SMP S40x/0.65 objective.	
	Working distance 0.6 mm	
80.899	Achromatic S60x/0.85 objective.	
	Working distance 0.20 mm	
86.900	Semi plan SMP S100x/1.25 oil immersion objective.	
	Working distance 0.38 mm	
86.511	Plan PL 4x/0.10 objective.	
	Working distance 17.9 mm	
86.513	Plan PL 10x/0.25 objective.	
	Working distance 8.8 mm	
86.514	Plan PL 20x/0.40 objective.	
	Working distance 8.6 mm	
86.517	Plan PL S40x/0.65 objective.	
	Working distance 0.56 mm	

86.519

86.520

Plan PL S60x/0.85 objective. Working distance 0.25 mm

Working distance 0.33 mm

Plan PL S100x/1.25 oil immersion objective.

- 6.521 Plan PL S100x/1.25 oil-immersion objective with iris diaphragm. Working distance 0.33 mm
- **36.413** Semi plan phase PH 10x/0.25 objective. Working distance 6.61 mm
- **86.414** Semi plan phase PH 20x/0.40 objective. Working distance 1.85 mm
- **86.417** Semi plan phase PH S40x/0.65 objective. Working distance 0.64 mm
- 6.420 Semi plan phase PH S100x/1.25 oil immersion objective. Working distance 0.19 mm
- **86.313** Plan phase PLPH 10x/0.25 objective. Working distance 8.8 mm
- 6.314 Plan phase PLPH 20x/0.40 objective. Working distance 8.6 mm
- 36.317Plan phase PLPH S40x/0.65 objective.Working distance 0.65 mm
- 6.320 Plan phase PLPH S100x/1.25 oil immersion objective. Working distance 0.33 mm



ACCESSORIES AND SPARE PARTS

- 86.560 Plan PL 4x /0.12 infinity corrected IOS objective. Working distance 19.75 mm 86.562 Plan PL 10x/0.25 infinity corrected IOS objective.
- Working distance 5 mm 86.564 Plan PL 20x/0.40 infinity corrected IOS objective.
- Working distance 8.8 mm Plan PL S40x/0.65 infinity corrected IOS objective. 86.566 Working distance 0.66 mm

LIFE SCIENCE

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- Plan PL S60x/0.80 infinity corrected IOS objective. 86.567 Working distance 0.26 mm
- 86.568 Plan PL S100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.36 mm
- Dark field stop to be placed in filter holder. 86.172 Suitable for objectives from 10x up to S40x
- Simple 40x phase contrast set consisting of a 86.613 N.A. 1.25 condenser with a plan phase PLPH S40x N.A. 0.65 objective and associated phase plate. Delivered with centering telescope and green filter
- 86.615 Zernike medium dark phase contrast set. The set consists of a disc phase N.A.1.25 condenser with rotating wheel of phase annuli and an aperture for brightfield illumination. Complete with semi plan phase DIN PH 10x/0.25, PH 20x/0.40, PH S40/0.65 and PH S100x/1.25 oil immersion objectives. Delivered with centering telescope and green filter
- 86.617 Zernike medium dark phase contrast set. The set consists of a disc phase N.A.1.25 condenser with rotating wheel of phase annuli and an aperture for brightfield illumination. Complete with plan phase DIN PLPH 10x/0.25, PH 20x/0.40, PH S40/0.65 and PH S100x/1.25 oil immersion objectives. Delivered with centering telescope and green filter

- Mirror with adapter for B and B+ series 86.806 with halogen illumination only
- AE.5168-B Heating stage with PID controller up to 50°C. Only supplied with a new purchased microscope AE.3612 Cardioid dark field condenser with integrated 5 W LED light source and external 100-240 V mains adapter
- AE.5130 Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Needs T2 adapter
- AE.5020 T2 adapter for Nikon D digital SLR cameras AE.5040 T2 adapter for Canon EOS digital SLR cameras Other T2 adapters on request
- SLR camera adapter with 2.5x and 86.820 4x magnification lenses
- 86.851 Polarizing attachment for B or B+ series with a halogen illumination 86.852 Polarizing attachment for B or B+ series with a LED illumination
- 86.860 Attachable Köhler diaphragm to be mounted on lamp house. Only suitable for models with halogen illumination
- 86.961 Plastic case for polystyrene packaging of B and B+ series
- 86.970 Aluminium flight case
- 86.971 Aluminium case
- AE.5202 Blue filter, 32 mm diameter
- AE.5203 Yellow filter, 32 mm diameter
- AE.5204 Neutral grey filter, 32 mm diameter
- AE.5205 Green filter, 32 mm diameter

AE.5207 Blue filter acrylic, 31.8 mm diameter

- 86.889 Spare halogen bulb 6 V 20 W Spare LED module for B series 86.101 AE.5227 Glass fuses 1 A 250 V, 10 pieces PB.5155 Microscope slides 76 x 26 mm, ground edges, 50 pieces **PB.5165** Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
- **PB.5168** Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
- PB.5245 Lens cleaning paper, 100 sheets per pack
- Immersion oil, n = 1.482 (25 ml) PB.5255
- PB.5274 Isopropyl alcohol 99% (200 ml)
- PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs



LIFE SCIENCE MICROSCOPES

LABORATORIES

4

Oxion Inverso

The Oxion Inverso inverted microscopes are useful for observation of living organisms and tissues cultures in cell culture dishes and flasks

The Oxion Inverso series are available with brightfield and phase contrast as well as for fluorescence microscopy. Dedicated objectives are suitable for 1.2 mm thick glass bottoms of cell culture dishes and flasks

BRIGHTFIELD OX.2003-PL / OX.2053-PL	
Dimensions	Weight
(h) 488 x (w) 231 x (d) 555 mm	9.0 kg

PHASE CONTRAST OX.2203-PLPH / OX.2253-PLPH				
Dimensions	Weight			
(h) 488 x (w) 231 x (d) 555 mm	9.0 kg			



- Life Science applications
- Observation of tissue cultures, living cells
- Brightfield, phase contrast and fluorescence
- Long working distance IOS plan achromatic objectives
- Revolving quintuple nosepiece
- 5 W LED transmitted illumination
- 100 W mercury vapor lamp for fluorescence
- 10 years warranty

OX.2453-PLPHF

TECHNICAL SPECIFICATIONS

EYEPIECES

Pair of DIN HWF plan 10x/22 mm eyepieces

HEADS

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

NOSEPIECES

OX.2053-PLPH

0

Revolving quintuple nosepiece on ball-bearings

OBJECTIVES FOR BRIGHTFIELD

(models OX.2003-PL and OX.2053-PL) Infinity color corrected long working distance plan 10x/0.25, 20x/0.40, 40x/0.60 IOS objectives. An optional 60x/0.70 IOS objective is also available

OBJECTIVES FOR PHASE CONTRAST

(models OX.2003-PLPH and OX.2053-PLPH) Infinity color corrected long working distance plan phase 10x/0.25, 20x/0.40, 40x/0.60 IOS objectives

OBJECTIVES FOR BRIGHTFIELD AND FLUORESCENCE MICROSCOPY

(models OX.2253-PLF and OX.2453-PLF) Infinity color corrected long working distance plan Fluarex 10x/0.30, 20x/0.45, 40x/0.65 IOS objectives. An optional plan Fluarex 60x/0.75 IOS objective is also available

OBJECTIVES FOR PHASE CONTRAST AND FLUORESCENCE MICROSCOPY

(models OX.2253-PLPHF and OX.2453-PLPHF) Infinity color corrected long working distance plan fluarex 10x/0.30 and plan phase fluarex 20x/0.45 and \$40x/0.65 IOS objectives

All objectives corrected for 1.2 mm thickness. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

TECHNICAL SPECIFICATIONS

STAGE

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

- metallic insert for Ø 35 mm cell culture dish dishes
- 76 x 26 mm slide holder
- glass insert with hole
- · optional universal cell culture dish holder

CONDENSER

N.A. 0.30 condenser with iris diaphragm. Working distance 72 mm

The models for the phase contrast OX.2003-PLPH, OX.2053-PLPH, OX.2253-PLPHF and OX.2453-PLPHF are delivered with a slider with 4x/10x and 20x/40x pre-centered phase rings

LIFE SCIENCE

FOCUSING ADJUSTMENT

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

ILLUMINATION

Transmitted 5 W LED Intensity adjustable with internal 100-240 V power supply. Fuse holder 3.15 A / 250 V

The fluorescence models are equipped with a reflected 100 W HBO mercury vapor light source with external 100-240 V power supply, fuse holder 3.15 A / 250 V, UV protection shield

FILTERS FOR PHASE CONTRAST MODELS

Interference filter 550 nm green and blue filter, 45 mm diameter

STANDARD FLUORESCENCE FILTERS

(for fluorescence models)

- The fluorescence models OX.2253-PLF and OX.2453-PLF
- are standard supplied with 2 filter sets for excitation:
- in the blue spectrum,
- OX.9745, EX465-495 (BP) DM505 (LP) EM515-558 (BP)
- in the green spectrum,
 OX.9746, EX520-600 (BP) DM600 (LP) EM605-665 (BP)

The fluorescence models OX.2253-PLF and OX.2453-PLPHF equipped with a 4 positions filter rail equipped with 3 standard filter sets for excitation:

- in the blue spectrum,
- OX.9745, EX465-495 (BP) DM505 (LP) EM515-558 (BP)
- in the green spectrum,
 OX.9746, EX520-600 (BP) DM600(LP) EM605-665 (BP)
- in the UV spectrum,
 OX.9747, EX361-381 (BP) D415 (LP) EM435-495 (BP)

PACKAGING

Supplied with power cord, dust cover and user manual. Phase contrast models are supplied with green filter and centering telescope.





OX.9190

MODELS	LWD Plan 10x/20x/40x objectives	LWD Plan phase 10x/20x/40x objectives	LWD Plan fluarex 10x/20x/40x objectives	LWD Plan fluarex 10x and plan phase fluarex 20x/40x objectives	2 position filter block	4 position filter block	Mechanical stage
OX.2003-PL	•						
OX.2053-PL	•						•
OX.2003-PLPH		•					
OX.2053-PLPH		•					•
OX.2253-PLF			•		•		•
OX.2453-PLF			•			•	•
OX.2253-PLPHF				•	•		•
OX.2453-PLPHF				•		•	•
			-160				

Fluarex™ objectives are made of low-absorption glass for fluorescence applications Fluarex™ is a trademark of Euromex microscopen bv LWD = long working distance

ACCESSORIES AND SPARE PARTS

EYEPIECES

MODELC

 OX.6010
 HWF 10x/22 mm eyepiece

 OX.6015
 HWF 15x/16 mm eyepiece

 OX.6110
 HWF 10x/22 mm eyepiece with micrometer reticule

 OX.6099
 Pair of eyecups

OBJECTIVES FOR BRIGHT FIELD MICROSCOPY FOR INVERTED MODELS (*)

- **OX.8304** Plan LWD 4x/0.10 infinity corrected IOS objective, working distance 22 mm
- **OX.8310** Plan LWD 10x/0.25 infinity corrected IOS objective, working distance 7.94 mm
- **OX.8320** Plan LWD 20x/0.40 infinity corrected IOS objective, working distance 7.66 mm
- **OX.8340** Plan LWD 40x/0.60 infinity corrected IOS objective, working distance 3.71 mm
- **OX.8360** Plan LWD 60x/0.70 infinity corrected IOS objective, working distance 2.5 mm

OBJECTIVES FOR BRIGHT FIELD AND FLUORESCENCE MICROSCOPY FOR INVERTED MODELS (*)

OX.8604 Plan fluarex LWD 4x/0.13 infinity corrected IOS objective, working distance 18.5 mm

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07.0010	rian nualex EWD 10x/0.50 mining confected 105
	objective, working distance 7.1 mm
OX.8620	Plan fluarex LWD 20x/0.45 infinity corrected IOS
	objective, working distance 5.91 mm

OX 8610 Plan fluarey LWD 10x/0 30 infinity corrected IOS

- **OX.8640** Plan fluarex LWD 40x/0.65 infinity corrected IOS objective, working distance 1.61 mm
- **OX.8660** Plan fluarex LWD 60x/0.75 infinity corrected IOS objective, working distance 1.04 mm

OBJECTIVES FOR PHASE CONTRAST (**) MICROSCOPY FOR INVERTED MODELS (*)

- **OX.8404** Plan phase LWD 4x/0.13 infinity corrected IOS objective, working distance 10.4 mm (*)
- **OX.8410** Plan phase LWD 10x/0.25 infinity corrected IOS objective, working distance 7.94 mm (*)
- **OX.8420** Plan phase LWD 20x/0.40 infinity corrected IOS objective, working distance 7.66 mm (*)
- **OX.8440** Plan phase LWD 40x/0.60 infinity corrected IOS objective, working distance 3.71 mm (*)
- (*) All objectives corrected for 1.2 mm cover glass thickness. All optical parts are anti-fungus treated
 (**) Deep contract philotic provide a state of the second state of the seco
- (**) Phase contrast objectives require slider with phase contrast annuli OX.9163

ACCESSORIES AND SPARE PARTS

OBJECTIVES FOR FLUORESCENCE AND PHASE CONTRAST (**) MICROSCOPY FOR INVERTED MODELS (*)

 OX.8720 Plan phase fluarex LWD 20x/0.45 infinity corrected IOS objective. Working distance 5.91 mm (*)
 OX.8740 Plan phase fluarex LWD 40x/0.65 infinity corrected IOS objective. Working distance 1.1 mm (*)

LIFE SCIENCE MICROSCOPE

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STANDARD GENERAL PURPOSE FLUORESCENCE FILTER SETS:

 OX.9745 Fluorescence filter block for Blue excitation 465-495 nm
 OX.9746 Fluorescence filter block for Green excitation 520-600 nm
 OX.9747 Fluorescence filter block for UV excitation 361-389 nm
 OX.9748 Fluorescence filter block for Violet excitation 361-389 nm

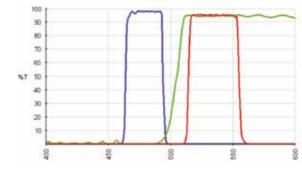
ALL MODELS

OX.9149 Telescope for phase contrast alignmentOX.9190 Slider with 4x/10x and 20x/40x phase contrast annuli

- OX.9500Mechanical coaxial X-Y 120 x 78 mm stageOX.9506Transparent glass insert with holeOX.9512Insert with 76 x 26 mm slide holderand Ø 54 mm cell culture dish holderOX.9535Metal insert for Ø35 mm cell culture dish holderOX.9550Stage extension plateOX.9599Universal cell culture dish holder
- **OX.9985** 5 W NeoLED[™] replacement unit

For transmitted illumination:OX.9700Blue filterOX.9702Green filterOX.9703IR cut-off filterOX.9749Empty Filter blockOX.9753Filter block rail, 3 positionsOX.9754Filter block rail, 4 positions

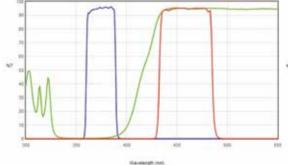
- OX.9810 CS/C mount with 1.0x objective
- **OX.9833** C-mount adapter with 0.33x objective for Oxion microscopes and 1/3" cameras
- **OX.9850** C-mount adapter with 0.5x objective for Oxion and Oxion Inverso microscopes and 1/2" cameras
- AE.5120 Standard 23.2 mm diameter tube for Oxion photo port
 AE.5130 Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes Need T2 adapter and AE.5120
 AE.5025 T2 adapter for Nikon D digital SLR cameras
 AE.5040 T2 adapter for Canon EOS digital SLR cameras
- AE.3199 Glass fuses 3.15 A 250 V packed, per 10 pieces
- PB.5155 Microscope slides 76 x 26 mm, ground edges, 50 pieces
- **PB.5165** Cover glasses 18 x 18 mm, thickness 0.13 0.17 mm, 100 pieces
- **PB.5168** Cover glasses 22 x 22 mm, thickness 0.13 0.17 mm, 100 pieces
- PB.5245 Lens cleaning paper, 100 sheets per pack
- **PB.5255** Immersion oil, n = 1.482 (25 ml)
- PB.5274 Isopropyl alcohol 99% (200 ml)
- **PB.5275** Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs



STANDARD GENERAL PURPOSE FLUORESCENCE FILTER SETS

OX.9745 Blue excitation 465-495 nm FITC EX465-495 (BP) DM505 (LP) EM515-558 (BP)

Also suitable for: Acridine Orange + DNA, Alexa Fluor 488™, Atto 488, Azami Green, BODIPY FL/pH7.2, Calcein, Calcium Green™-1, Cy2™, DiO, DyLight 488, EGFP, Emerald GFP, FAM, FITC, Fluo-4, GFP LysoTracker Green/pH 5.2, MitoTracker Green FM/MeOH, mWasabi, Oregon Green™ 488, SYBR® Green I, SYTO 9/DNA, ZsGreen



OX.9747 UV excitation 361-381 nm DAPI / Hoechst / Alexa Fluor 350 EX361-381 (BP) D415 (LP) EM435-495 (BP)

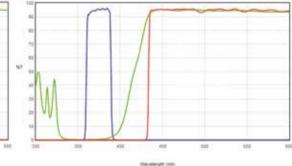
Also suitable for: Alexa Fluor 350[™], Biosearch Blue, Coumarin, DAPI, DyLight 350, Hoechst 33258, LysoTracker Blue/MeOH

The fluorescence microscopes can be equipped with more specific, optimized and application related fluorescence filters sets, see accessories section and/or separate fluorescence filter catalog



OX.9746 Green excitation 520-600 nm Texas Red / mCherry / Alexa Fluor 594 EX520-600 (BP) DM600 (LP) EM605-665 (BP)

Also suitable for: Alexa Fluor 568[™], Alexa Fluor 594[™], CAL Fluor[®] Red 610, Cy3.5[™], DyLight 594, FusionRed, Killer Red, mCherry, MitoTracker Red/MeOH, mKate2, mRFP1, ReAsH-CCPGCC, Rhodamine Red[™]-X, ROX, Sulforhodamine 101, Texas Red[®], Texas Red[®]-X, X-rhod-1/Ca2+



OX.9748 Violet excitation 361-389 nm UV / DAPI Longpass, Calcofluor White EX 361-389 (BP) DM 415 (LP) EM 435 (LP)

(*) All objectives corrected for 1.2 mm cover glass thickness. All optical parts are anti-fungus treated

(**) Phase contrast objectives require slider with phase contrast annuli OX.9163



ACCESSORIES AND SPARE PARTS

OPTIMIZED FLUORESCENCE FILTERS SETS:

OX.9750.39001

Filter set EX435 (BP20) DM455 (LP) EM480 (BP30) AmCyan, Atto 425, Cerulean, CFP, ECFP fluorophore. Needs empty filter block (OX.9749)

LIFE SCIENCE MICROSCOPES

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OX.9750.39002 Filter set EX480 (BP30) DM505(LP) EM535 (BP40) Acridine Orange + DNA, Alexa Fluor 488[™], Atto 488, Azami Green, BODIPY FL/pH7.2, Calcein, Calcium Green[™]-1, Cy2[™], DiO, DyLight 488, EGFP, Emerald GFP, FAM, FITC, Fluo-4, GFP, LysoTracker Green/pH 5.2, MitoTracker Green, FM/MeOH, mWasabi, Oregon Green[™] 488, SYBR[®] Green I, SYTO 9/DNA,

OX.9750.39003

ZsGreen fluorophore.

Needs empty filter block (OX.9749)

Filter set EX495 (BP20) DM515 (LP) EM540 (BP30) Alexa Fluor 514[™], Citrine, EYFP/pH 7, F/IAsH-CCPFCC, mCitrine, Oregon Green[™] 514, Rhodamine 123, Topaz. Needs empty filter block (OX.9749)

OX.9750.39004

euromex

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Filter set EX540 (BP25) DM565 (LP) EM605 (BP55) Alexa Fluor 546[™], Alexa Fluor 555[™], Atto 550, CAL Fluor® Red 590, Cy3[™], Dil, DsRed, DyLight 549, MitoTracker Orange/MeOH, Resorufin, Rhod-2, TagRFP, TAMRA tdTomato, Tetramethylrhodamine isothiocyanate, TRITC. Needs empty filter block (OX.9749)

OX.9750.39005

Filter set EX540 (BP25) DM565 (LP) EM 620 (BP60) TRITC-red-shifted, Ethidium homidimer-1/DNA, Propidium lodide. Needs empty filter block (OX.9749)

OX.9750.39007

Filter set EX620 (BP50) DM655 (LP) EM 690 (BP50) Alexa Fluor 647[™], Allophycocyanin (APC), Atto 647N, Cy5[™], DiD, Draq5, DyLight 649 MitoTracker Deep Red 633/MeOH, Nile Blue, Quasar[®] 670, SYTO[®] 60, TO-PRO[™]-3. Needs empty filter block (OX.9749)

OX.9750.39008

Filter set EX420 (BP40) DM455 (LP) EM 535 (BP40) Lucifer Yellow/Tetracycline/AlexaFluor 430. Needs empty filter block (OX.9749)

OX.9750.39009

Filter set EX480 (BP30) DM505 (LP) EM 620 (BP60) for Acridine Orange + RNA, Di-8-ANEPPS non-ratiometric, DiA, Ethidium Bromide, FM[™] 1-43, LysoTracker Yellow HCK-123, Pulsar[™] 650. Needs empty filter block (OX.9749)

OPTIMIZED PREMIUM FLUORESCENCE FILTERS SETS:

OX.9750.0401

Premium filter set EX440 (BP21), DM455 (LP), EM480 (BP30) for CFP, Cerulean, CyPet, SpectrumAqua. Needs empty filter block (OX.9749)

OX.9750.0403

Premium filter set EX380 (BP50), DM410 (LP), EM450 (BP60) for BFP, BFP2, DAPI, Alexa Fluor 350, Hoechst 33342 & 33258, BFP. Needs empty filter block (OX.9749)

OX.9750.0404

Premium filter set EX470 (BP40), DM500 (LP), EM535 (BP50) for Alexa Fluor 488, CoralHue Azami Green, Cy2, eGFP, FITC, GFP (sapphire), Emerald. Needs empty filter block (OX.9749)

OX.9750.0407

Premium filter set EX635 (BP30), DM660 (LP), EM710 (BP80) Cy5, Alexa Fluor 647. Also compatible with TO-PRO-3, TOTO-3, Kodak, X-Sight 650. Needs empty filter block (OX.9749)

OS.9750.0412

Premium filter set EX500 (BP25), DM252 (LP), EM545 (BP35) Acridine Oragne (+DNA), Rhodamine Green, CL NERF, (hi pH), YFP. Also compatible with Alexa Fluor 532. Needs empty filter block (OX.9749)

OX.9750.0414

Premium filter set EX560 (BP55), DM505 (LP), EM645 (BP75) Texas Red, Texas Red-X, CryptoLight CF-6. Also compatible with Cy3.5, HcRed, mRaspberry, MitoTracker Red. Needs empty filter block (OX.9749)

On request, the microscope can also be equipped with more specific, optimized and application related fluorescence filters sets

iScope[®] fluorescence

The excellent optics and mechanical components make the iScope[®] a state-of-the art microscope that is suitable for fluorescence applications in Life Science and Biotechnical fields

LIFE SCIENCE MICROSCOPES

The iScope[®] fluorescence microscopy can be supplied with:

- 6-position rotating attachment with 100 W mercury vapor light source
- 3-position slider attachment with 100 W mercury vapor light source
- 1-position slider attachment with a 3 W NeoLED[™] 465-475 nm blue light source
- 1-position slider attachment with a 3 W NeoLED[™] 520-530 nm green light source

IS.3153-EPLi / IS.3153-PLi / IS.3153-PLFi					
Dimensions	Weight				
(h) 407 x (w) 210 x (d) 255 mm	11.3 kg				

128 **Beuromex**

HIGHIIGHTS

- HWF 10x/22 mm eyepieces
- Binocular and trinocular models
- Optional ergonomic tilting head
- Quintuple revolving nosepiece • E-Plan, plan and plan fluarex
- corrected IOS objectives 216 mm x 150 mm rackless stage
- with integrated X-Y stage
- Optional ceramic stage
- Height adjustable Abbe condenser N.A. 1.25

TECHNICAL SPECIFICATIONS

EYEPIECES

Extended EWF 10x/22 mm eyepieces, Ø 30 mm tubes. Eyepieces can be secured to the tubes

HEADS

Binocular and trinocular Siedentopf type heads are with 30° inclined tubes, interpupillary distance from 48 to 76 mm and is equipped with diopter adjustment(s). An unique rotating system allows the ergonomical positioning of both tubes in a high (431 mm) and in a low position (397 mm). The trinocular head comes with a Ø 23.2 mm photo port. An optional ergonomic titling head and corresponding Ø 23.2 mm photo tube attachment are also available (only infinity corrected models)

To order an iScope with tilting head use reference IS.3158-xxx

· Coarse and fine adjustment Diascopic intensity adjustable 3 W

NeoLED[™] Köhler illumination

- Epi-fluorescence 100 W HBO mercury vapor
- Epi-fluorescence 460-495 nm or 510-550 nm 3 W LED
- iCare sensor for energy saving
- CSS Cable Storage System

10 years warranty

IS.315 PLFi-6

NOSEPIECE

Revolving and reversed nosepiece for maximum 5 objectives

OBJECTIVES

See below

STAGES

- 216 x 150 mm rackless stage equipped with double slide holder and integrated 79 x 52 mm mechanical stage. The iScope[®] rackless stage has no protruding parts, enabling more smooth movements and is safer
- 220 x 157 mm ceramic stage with integrated 75 x 50 mm mechanical stage protects with a very tough ceramic surface, against marks and scratches. The surface also ensures stray light not to be reflected from the stage into the objective

OBJECTIVES

00000000000						
E-Plan EPLi IOS	4x/0.10	10x/0.25	20x/0.40 ⁽¹⁾	S40x/0.65		S100x/1.25 oil
Plan PLi IOS	4x/0.10	10x/0.25	20x/0.40 ⁽¹⁾	S40x/0.65	S60x/0.85 ⁽¹⁾	S100x/1.25 oil
Plan PLFi IOS	4x/0.10	10x/0.25	20x/0.40 ⁽¹⁾	S40x/0.65		S100x/1.25 oil
(4) 1						

(1) optional

The plan fluarex PLFi ™ objectives are suitable for Violet and Ultra Violet excitation All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

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IS.3152 PLi-3

FEATURED

NeoLED

TECHNICAL SPECIFICATIONS

CONDENSER FOR BRIGHTFIELD

The standard height adjustable Abbe N.A. 1.25 condenser for brightfield accepts sliders with phase annuli suitable for plan phase 10x/20x or S40x/S100x oil immersion IOS objectives for economical phase contrast. With magnification indication. A slider with a simple dark stop for dark field up to 400x magnification is also available

CONDENSER FOR ZERNIKE PHASE CONTRAST

An optional height adjustable Zernike NA. 1.25 phase contrast disc condenser with plan phase 10/20/S40x and S100x oil immersion objectives and dark field stop position for dark field contrast up to 400x magnification

FOCUSING

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

ILLUMINATION

3 W adjustable Köhler NeoLED[™] diascopic illumination with internal 100-240 V power supply

The innovative NeoLED[™] design offer larger apertures, allowing the optical system of the iScope[®] microscope to produce images at higher resolutions, very close to the theoretical diffraction limit of the optics. Other benefits of the NeoLED[™] is the low energy consumption, no heating and a long operating lifetime

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

ILLUMINATION FOR FLUORESCENCE

The 6-positions rotating or 3-positions slider fluorescence attachments are supplied with standard 100 W HBO mercury vapor light source for broad powerful light spectrum and 100-240 V external power supply with indication of the life time of 100 W HBO lamp.

Supplied with standard fluorescence filters sets for blue and green excitation and a UV protection shield

The iScope[®] fluorescence microscopes equipped with a 100 W mercury vapor light source can be supplied with more specific, optimized and application related fluorescence filters sets

Two single position fluorescence attachments are supplied with 460-495 nm 3 W LED for blue excitation or 510-550 nm 3 W LED light source for green excitation and 100-240 Vac/7.5 Vdc external power supply. Supplied with standard fluorescence filters sets for blue and green excitation

ICARE SENSOR

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

CSS-CABLE STORAGE SYSTEM

iScope[®] allows users to easily insert the power cable into the backside of the instrument, which enables easy storage

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

PACKAGING

Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil for models with S100x objective. Models with 100 W mercury vapor light source have a UV protection shield. All packed in polystyrene boxes

SPECIFICATIONS (INFINITY)

			IS.3152 -EPLi	IS.3153 -EPLi	IS.3152 -PLi	IS.3153 -PLi	IS.3152 -PLFi	IS.3153 -PLFi	Product number
Models	Binocular		•		•		•		
	Trinocular			•		•		•	
Head	Ergonomic tiltir	ng head IOS series							IS.5700
Photo tube	for IS.5700	Ø 23.2 mm tube							IS.9800
Eyepieces	WF 10x / 22 mn	n	•	•	•	•	•	•	IS.6210
	WF 15x / 16 mn	n	0	0	0	0	0	0	IS.6215
	WF 20x / 12 mn	n	0	0	0	0	0	0	IS.6220
Diopter	adjustment on	left side	•	•					
	adjustment on	both sides			•	•	•	•	
Objectives IOS	E- Plan EPLi	4x / 0.10	•	•					IS.8804
	E- Plan EPLi	10x/0.25	•	•					IS.8810
	E- Plan EPLi	20x/0.40	0	0					IS.8820
	E- Plan EPLi	S40x / 0.65	•	•					IS.8840
	E- Plan EPLi	S100x / 1.25	•	•					IS.8800
	Plan PLi	4x / 0.10			•	•			IS.7204
	Plan PLi	10x / 0.25			•	•			IS.7210
	Plan PLi	20x / 0.25			0	0			IS.7220
	Plan PLi	S40x / 0.65			•	•			IS.7240
	Plan PLi	S60x / 0.85			0	0			IS.7260
	Plan PLi	S100x / 1.25			•	•			IS.7200
	Plan PLF	4x/ 0.10					•	•	IS.7404
	Plan PLF	10x/ 0.25					•	•	IS.7410
	Plan PLF	20x/ 0.40					0	0	IS.7420
	Plan PLF	S40x/ 0.65					•	•	IS.7440
	Plan PLF	S100x/ 1.25					•	•	IS.7400
Stage	Mechanical rac	kless stage	•	•	•	•	•	•	
Illumination	Diascopic 3 W N	leoLED™	•	•	•	·	•	•	
Fluorescence attachment	100 W HBO me 6-positions	ercury vapor	add / 6 suffix						
	EX 460-490 DM 5	520 EM 500 L filter (blue)	•	·	•	·	•	·	IS.9745-6
	EX 510-550 DM 58	30 EM 570 LP filter (green)	•	•	•	•	•	•	IS.9746-6
	EX 400-410 DM 4	55 EM 455 LP filter (violet)	0	0	0	0	0	0	IS.9747-6
	EX 330-385 DM 4	420 EM 400 LP filter (UV)	0	0	0	0	0	0	IS.9748-6
	Empty filter blo	ock	0	0	0	0	0	0	IS.9749-6
Fluorescence attachment	100 W HBO me 3-positions	<i>,</i> ,	add / 3 suffix						
		520 EM 500 L filter (blue)	·	•	·	·	•	•	IS.9745-3
		30 EM 570 LP filter (green)	•	•	•	•	•	•	IS.9746-3
		55 EM 455 LP filter (violet)	0	0	0	0	0	0	IS.9747-3
		420 EM 400 LP filter (UV)	0	0	0	0	0	0	IS.9748-3
_	Empty filter blo		0	0	0	0	0	0	IS.9749-3
Fluorescence attachment	1-position	465-475 nm blue.	add / LB suffix						
	EX 460-495 DM 50	05 EM 510-560 LP filter set	•	•	•	·	•	•	IS.9745-1
	100-240 Vac/7.	5 Vdc 1 A power supply	•	•	•	•	•	•	IS.9211

LABORATORIES

		IS.3152 -EPLi	IS.3153 -EPLi	IS.3152 -PLi	IS.3153 -PLi	IS.3152 -PLFi	IS.3153 -PLFi	Product number
Fluorescence attachment	3 W NeoLED™ 520-530 nm green. 1-position	add / LG suffix	add / LG suffix	add / LG suffix	add / LG suf- fix	add / LG suf- fix	add / LG suffix	
	EX 510-550 DM 580 EM 5170 LP filter set	•	•	•	•	•	•	IS.9746-1
	100 - 240 Vac/ 7.5 Vdc 1 A power supply	•	•	•	•	•	•	IS.9211
iCare Sensor		•	•	•	•	•	•	
Köhler		•	•	•	•	•	•	

ACCESSORIES AND SPARE PARTS

OPTIMIZED FLUORESCENCE FILTERS SETS

(Only for models with 100 W mercury vapor illuminations)
For fluorescence filter sets for the 6-positions attachment, add /6 to the reference below

• For fluorescence filter sets for the 3-positions attachment, add /3 to the reference below

IS.9750.39001

LIFE SCIENCE M

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Filter set EX435 (BP20) DM455 (LP) EM480 (BP30) AmCyan, Atto 425, Cerulean, CFP, ECFP fluorophore. Needs empty filter block

IS.9750.39002

Filter set EX480 (BP30) DM505(LP) EM535 (BP40) Acridine Orange + DNA, Alexa Fluor 488[™], Atto 488, Azami Green, BODIPY FL/pH7.2, Calcein, Calcium Green[™]-1, Cy2[™], DiO, DyLight 488, EGFP, Emerald GFP, FAM, FITC, Fluo-4, GFP, LysoTracker Green/pH 5.2, MitoTracker Green, FM/MeOH, mWasabi, Oregon Green[™] 488, SYBR[®] Green I, SYTO 9/DNA, ZsGreen fluorophore. Needs empty filter block

IS.9750.39003

Filter set EX495 (BP20) DM515 (LP) EM540 (BP30) Alexa Fluor 514[™], Citrine, EYFP/pH 7, F/IAsH-CCPFCC, mCitrine, Oregon Green[™] 514, Rhodamine 123, Topaz. Needs empty filter block

IS.9750.39004

Filter set EX540 (BP25) DM565 (LP) EM605 (BP55) Alexa Fluor 546[™], Alexa Fluor 555[™], Atto 550, CAL Fluor[®] Red 590, Cy3[™], Dil, DsRed, DyLight 549, MitoTracker Orange/MeOH, Resorufin, Rhod-2, TagRFP, TAMRA, tdTomato, Tetramethylrhodamine isothiocyanate, TRITC. Needs empty filter block

IS.9750.39005

Filter set EX540 (BP25) DM565 (LP) EM 620 (BP60) TRITC-red-shifted, Ethidium homidimer-1/DNA, Propidium lodide. Needs empty filter block

IS.9750.39007

Filter set EX620 (BP50) DM655 (LP) EM 690 (BP50) Alexa Fluor 647[™], Allophycocyanin (APC), Atto 647N, Cy5[™], DiD, Draq5, DayLight 649, MitoTracker Deep Red 633/MeOH, Nile Blue, Quasar[®] 670, SYTO[®] 60, TO-PRO[™]-3. Needs empty filter block

IS.9750.39008

Filter set EX420 (BP40) DM455 (LP) EM 535 (BP40) Lucifer Yellow/Tetracycline/AlexaFluor 430. Needs empty filter block

IS.9750.39009

Filter set EX480 (BP30) DM505 (LP) EM 620 (BP60) for Acridine Orange + RNA, Di-8-ANEPPS non-ratiometric, DiA, Ethidium , Bromide, FM™ 1-43, LysoTracker Yellow HCK-123, Pulsar™ 650. Needs empty filter block

OPTIMIZED PREMIUM FLUORESCENCE FILTERS SETS

(Only for models with 100 W mercury vapor illuminations)

IS.9750.0401

Premium filter set EX440 (BP21), DM455 (LP), EM480 (BP30) CFP, Cerulean, CyPet, SpectrumAqua. Needs empty filter block

IS.9750.0403

Premium filter set EX380 (BP50), DM410 (LP), EM450 (BP60) BFP, BFP2, DAPI, Alexa Fluor 350, Hoechst 33342 & 33258, BFP. Needs empty filter block

IS.9750.0404

Premium filter set EX470 (BP40), DM500 (LP), EM535 (BP50) Alexa Fluor 488, CoralHue Azami Green, Cy2, eGFP, FITC, GFP (sapphire), Emerald. Needs empty filter block

IS.9750.0407

Premium filter set EX635 (BP30), DM660 (LP), EM710 (BP80) Cy5, Alexa Fluor 647. Also compatible with TO-PRO-3, TOTO-3, Kodak, X-Sight 650. Needs empty filter block

IS.9750.0412

Premium filter set EX500 (BP25), DM252 (LP), EM545 (BP35) Acridine Oragne (+DNA), Rhodamine Green, CL NERF, (hi pH), YFP. Also compatible with Alexa Fluor 532. Needs empty filter block

IS.9750.0414

Premium filter set EX560 (BP55), DM505 (LP), EM645 (BP75) Texas Red, Texas Red-X, CryptoLight CF-6. Also compatible with Cy3.5, HcRed, mRaspberry, MitoTracker Red. Needs empty filter block

IS.9749-6 Empty filter cube for 6-positions fluorescence attachment

IS.9749-3 Empty filter cube for 3-positions fluorescence attachment

- IS.9749-1 Empty filter cube for1-position fluorescence attachment
- IS.9753 Filter rail, 3-positions
- IS.9102 Standard Abbe condenser 1.25 NA condenser with slot for dark field and phase contrast sliders
- IS.9105 Swing-out 0.9/1.25 NA condenser
- SL.5500 LED replacement unit for iScope
- 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
- PB.5155 Microscope slides 76 x 26 mm, ground edges, 50 pieces
- PB.5165 Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
- **PB.5168** Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
- PB.5245 Lens cleaning paper, 100 sheets per pack
- **PB.5255** Immersion oil, n = 1.482 (25 ml)
- PB.5274 Isopropyl alcohol 99% (200 ml)
- PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs

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132 **Beuromex**

4

OXION fluorescence

The Oxion microscopes for fluorescence are equipped with an epi-illumination with a 100 W mercury vapor lamp. The fluorescence attachment have a rail for maximum 4 filter cubes. The FluoLed model is equipped with a 455 nm LED and one filter cube, especially developed for efficient and fast detection of tuberculosis by the Auramine-O fluorochrome. Other FluoLED wavelengths are also available. The Oxion fluorescence microscopes are dedicated to professionals in Life Sciences applications, laboratories of universities and research centers

LIFE SCIENCE MICROSCOPES



Oxion

OX.3085	
Dimensions	Weight
(h) 454 x (w) 276 x (d) 578 mm	12.2 kg

OX.3230	
Dimensions	Weight
(h) 454 x (w) 185 x (d) 294 mm	8.7 kg

HIGHLIGHTS

- Binocular and trinocular models
- HWF 10x/22 mm eyepieces
- Reversed nosepiece for maximum 5 objectives
- Plan, plan fluarex and plan semi apochromatic fluarex IOS objectives
- Integrated mechanical stage
- Coaxial coarse and fine adjustments
- Height adjustable Abbe N.A. 1.25 condenser with iris diaphragm and filter holder
- 3 W LED transmitted illumination
- Fluorescence attachment for maximum 4 filter blocks
 and with 100 W mercury vapor incident illumination
- Fluorescence attachment with single filter block and 455 nm (Blue), 560 nm (Green) or 365 nm (UV) incident illumination
- Ergonomic stand and head
- 10 years warranty

TECHNICAL SPECIFICATIONS

EYEPIECES

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

HEADS

Binocular and trinocular Siedentopf type heads are with 30° inclined tubes. Interpupillary distance from 50 to 75 mm. Two \pm 5 diopter adjustments. A unique rotating system allows the ergonomical positioning of both tubes in a high (431 mm) and in a low position (397 mm)

NOSEPIECE

Revolving and reversed nosepiece for maximum 5 objectives. The fluorescence models with mercury vapor lamp are equipped with an orange UV protection shield

OBJECTIVES

• Plan 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives



- CIENCE MICROSCOPES
- Plan fluarex 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
- Plan semi apochromatic fluarex 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
 All S40x, S60x and S100x oil immersion objectives are spring loaded. All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

FOCUSING

Coaxial coarse and fine adjustments, 200 graduations, 1 µm per graduation, 200 µm per rotation, total travel approximately 28 mm. Supplied with an adjustable rack stop to prevent damage to sample and objectives. The coarse adjustments are equipped with friction control

STAGE

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

TECHNICAL SPECIFICATIONS

CONDENSER FOR BRIGHTFIELD

Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm. Supplied with a white diffusion filter. Phase contrast rings mounted in slider can be inserted in the condenser for 10x and S40x or 20x and S100x phase contrast objectives. A dark field stop in slider for the 10x, 20x and S40x objectives can also be inserted with magnification indication

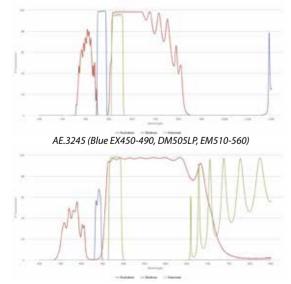
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CONDENSER FOR FLUORESCENCE

The fluorescence attachment is equipped with an integrated condenser with iris diaphragm and with a field diaphragm

ILLUMINATION FOR BRIGHTFIELD AND PHASE CONTRAST

All models are supplied with a 3 W adjustable NeoLED™ illumination with built-in 100-240 V power supply. Köhler illumination with field diaphragm



AE.3247 (Violet EX430-450, DM455LP, EM465-495)

ILLUMINATION FOR FLUORESCENCE

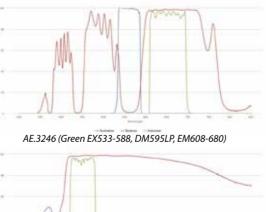
Fluorescence attachment with 100 W (HBO) mercury vapor incident epi-illumination and rail for maximum 4 filter blocks. Two general purpose filter sets are standard supplied with the attachment: AE.3245 (Blue excitation) and AE.3246 (Green excitation). Two other general purpose filter sets AE.3246 (UV excitation) and AE.3247 (Ultraviolet excitation) are also available. More specific filter sets are available on request

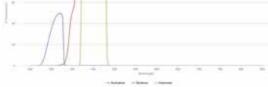
ILLUMINATION OF FLUOLED

The FluoLed attachment is standard delivered with a 455 nm LED for efficient and fast detection of tuberculosis with Auramine-O fluorochrome. FluoLED attachments are also available with a 560 nm LED and Green filter set or a 365 nm LED together with an Ultraviolet filter set

PACKAGING

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





AE.3248 (UltraViolet EX348-381, DM400LP, EM420-480)

MODEL	Binocular	Trinocular	Plan 4x/10x/ S40x/S100x objectives	Plan fluarex 4x/10x/ S40x/S100x objectives	Plan semi apo fluarex 4x/10x/S40x/ objectives	Plan semi apo fluarex S100x objectives	100 W mercury vapor illumination	455 nm FluoLED illumination
OX.3067		•		•			•	
OX.3070	•				•		•	
OX.3075		•			•		•	
OX.3080	•				•	•	•	
OX.3085		•			•	•	•	
OX.3230	•		•					•
OX.3235		٠	•					•
OX.3232	•				•	•		•
OX.3237		•			•	•		•

ACCESSORIES AND SPARE PARTS

AE.3210HWF10x/22 mm eyepieceAE.3215HWF15x/13 mm eyepieceAE.3223HWF10x/22 mm eyepiece with 10mm/100 micrometerAE.3225Pair of eyecups

Plan 4x/0 10 IOS objective WD 11 9 mm

AE.3102	Plan 2x/0.06 IOS objective	

AE 2104

AL.3104	1 Ian 4x/0.10105 objective. wb 11.5 mm
AE.3106	Plan 10x/0.25 IOS objective. WD 12.1 mm

- AE.3108 Plan 20x/0.40 IOS objective. WD1.5 mm
- AE.3110 Plan S40x/0.65 IOS objective. WD 0.36 mm
- AE.3112 Plan S60x/0.85 IOS objective. WD 0.30 mm
- AE.3114 Plan S100x/1.25 oil IOS objective. WD 0.18 mm
- 86.550 Plan fluarex 4x /0.12 IOS objective. WD 19.75 mm
- **86.562** Plan fluarex 10x/0.25 IOS objective. WD 5 mm
- 86.564 Plan fluarex 20x/0.40 IOS objective. WD 8.8 mm
- 86.566 Plan fluarex S40x/0.65 IOS objective. WD 0.66 mm
- 86.568 Plan fluarex S100x/1.25 oil IOS objective. WD 0.36 mm
- AE.3144 Plan semi apochromatic fluarex 4x/0.13 IOS objective. Working distance 18.5 mm
- AE.3146 Plan semi apochromatic fluarex 10x/0.30 IOS objective. Working distance 10.6 mm
- AE.3148 Plan semi apochromatic fluarex 20x/0.50 IOS objective. Working distance 2.33 mm

WD = Working distance

Δ

AE.3152	Plan semi apochromatic fluarex S40x/0.75 IOS
	objective. Working distance 0.6 mm
AE.3156	Plan semi apochromatic fluarex S100x/1.28 oil
	immersion IOS objective. Working distance 0.21 mm

	,
AE.3192	Polarizer slider for nosepiece
AE.3194	Polarizer for lamp house
AE.3196	Frosted white filter 45 mm, sits on lamp house

AE.3190 Polarizer/Analyzer set

- AE.3198 Blue filter 45 mm, sits on lamp house
- AE.3199 Glass fuses 3.15 A 250 V, 10 pieces
- AE.3200 Yellow filter 45 mm, sits on lamp house
- AE.3202 Green filter 45 mm, sits on lamp house
- AE.3240 Fluorescence attachment with 100 W mercury lamp and 100-240 V power supply
- AE.3249 Empty filter cube for models OX.3066/OX.3067/OX.3070/3075/3080/3085

AE.3250.ND6

Neutral density set with 6 filters, 25 mm, T80%, T50%, T32%, T10%, T1%, T0.1%

AE.3250.ND12

Neutral density set with 12 filters, 25 mm, T90%, T80%, T63%, T50%, T40%, T32%, T25%, T20%, T16%, T10%, T1%, T0.1%

ACCESSORIES AND SPARE PARTS

STANDARD FLUORESCENCE FILTERS SETS

AE.3245 Cube with standard fluorescence filter set for blue excitation EX465-495, DM505LP, EM515-558. Compatible with EGFP FITC Cy2 Alexa Fluor 488. Also suitable for Acridine Orange + DNA, Alexa Fluor 488[™], Atto 488, Azami Green, BODIPY FL/ pH7.2, Calcein, Calcium Green[™]-1, Cy2[™], DiO, DyLight 488, EGFP, Emerald GFP, FAM, FITC, Fluo-4, GFP LysoTracker Green/pH 5.2, MitoTracker Green FM/MeOH, mWasabi, Oregon Green[™] 488, SYBR[®] Green I, SYTO 9/DNA, ZsGreen

LIFE SCIENCE

AE.3246 Cube with standard fluorescence filter set for green excitation EX520-600, DM600LP, EM605-665. Compatible with Texas Red / mCherry / Alexa Fluor 594. Also suitable for Alexa Fluor 568[™], Alexa Fluor 594[™], CAL Fluor[®] Red 610, Cy3.5[™], DyLight 594, FusionRed, Killer Red, mCherry, MitoTracker Red/MeOH, mKate2, mRFP1, ReAsH-CCPGCC, Rhodamine Red[™]-X, ROX, Sulforhodamine 101, Texas Red[®], Texas Red[®]-X, X-rhod-1/Ca2+

- AE.3247 Cube with standard fluorescence filter set for violet excitation EX361-381 D415LP EM435-495.
 Compatible with DAPI / Hoechst / Alexa Fluor 350.
 Also suitable for Alexa Fluor 350[™], Biosearch Blue, Coumarin, DAPI, DyLight 350, Hoechst 33258, LysoTracker Blue/MeOH
- AE.3248 Cube with standard fluorescence filter set for ultaviolet excitation EX 361-389BP, DM 415LP, EM 435LP. Compatible with UV fluorophores and DAPI longpass
- AE.3249 Empty filter cube for fluorescence attachment of OX.3067/3070/3075/3080/3085 models

OPTIMIZED FLUORESCENCE FILTERS SETS AE.3250.39001

Filter set EX435 (BP20) DM455 (LP) EM480 (BP30) AmCyan, Atto 425, Cerulean, CFP, ECFP fluorophore. Needs empty filter block

AE.3250.39002

Filter set EX480 (BP30) DM505(LP) EM535 (BP40) Acridine Orange + DNA, Alexa Fluor 488[™], Atto 488, Azami Green, BODIPY FL/pH7.2, Calcein, Calcium Green[™]-1, Cy2[™], DiO, DyLight 488, EGFP, Emerald GFP, FAM, FITC, Fluo-4, GFP, LysoTracker Green/pH 5.2, MitoTracker Green, FM/MeOH, mWasabi, Oregon Green[™] 488, SYBR[®] Green I, SYTO 9/DNA, ZsGreen fluorophore. Needs empty filter block

AE.3250.39003

Filter set EX495 (BP20) DM515 (LP) EM540 (BP30) Alexa Fluor 514[™], Citrine, EYFP/pH 7, F/lAsH-CCPFCC, mCitrine, Oregon Green[™] 514, Rhodamine 123, Topaz. Needs empty filter block

AE.3250.39004

Filter set EX540 (BP25) DM565 (LP) EM605 (BP55) Alexa Fluor 546[™], Alexa Fluor 555[™], Atto 550, CAL Fluor[®] Red 590, Cy3[™], Dil, DsRed, DyLight 549, MitoTracker Orange/MeOH, Resorufin, Rhod-2, TagRFP, TAMRA, tdTomato, Tetramethylrhodamine isothiocyanate, TRITC. Needs empty filter block

AE.3250.39005

Filter set EX540 (BP25) DM565 (LP) EM 620 (BP60) TRITC-red-shifted, Ethidium homidimer-1/DNA, Propidium lodide. Needs empty filter block

AE.3250.39007

Filter set EX620 (BP50) DM655 (LP) EM 690 (BP50) Alexa Fluor 647™, Allophycocyanin (APC), Atto 647N, Cy5[™], DiD, Draq5, DayLight 649, MitoTracker Deep Red 633/MeOH, Nile Blue, Quasar[®] 670, SYTO[®] 60, TO-PRO[™]-3. Needs empty filter block

AE.3250.39008

Filter set EX420 (BP40) DM455 (LP) EM 535 (BP40) Lucifer Yellow/Tetracycline/AlexaFluor 430. Needs empty filter block

AE.3250.39009

Filter set EX480 (BP30) DM505 (LP) EM 620 (BP60) for Acridine Orange + RNA, Di-8-ANEPPS non-ratiometric, DiA, Ethidium , Bromide, FM[™] 1-43, LysoTracker Yellow HCK-123, Pulsar[™] 650. Needs empty filter block.

OPTIMIZED PREMIUM FLUORESCENCE FILTERS SETS

AE.3250.0401 Cube with optimized fluorescence filter set EX440/21, DM455LP, EM480/30 for CFP, Cerulean, et SpectrumAqua

AE.3250.0403

Cube with optimized fluorescence filter set EX380/50, DM410LP, EM450/60 for DAPI, Alexa Fluor 350, Hoechst 33342 & 33258, BFP

AE.3250.0404

Cube with optimized fluorescence filter set EX470/40, DM500LP, EM535/50 for Cy2, eGFP, FITC, Emerald. Also compatible with avec Alexa Fluor 488

AE.3250.0407

Cube with optimized fluorescence filter set EX635/30, DM660LP, EM710/80 for Cy5, Alexa 647. Also compatible with TO-PRO-3, TOTO-3, Kodak X-Sight 650

AE.3250.0412

Cube with optimized fluorescence filter set EX500/25, DM252LP, EM545/35 for Acridine Oragne (+DNA), Rhodamine Green, CL NERF (hi pH), YFP. Also compatible with Alexa Fluor 532

AE.3250.0414

Cube with optimized fluorescence filter set EX560/55, DM505LP, EM645/75 for Texas Red, Texas Red-X, CryptoLight CF-6. Also compatible with Cy3.5, HcRed, mRaspberry, MitoTracker Red. Needs empty filter block

On request, the microscope can also be equipped with more specific, optimized and application related fluorescence filters sets, see accessories section and/or separate fluorescence filter catalog

- **AE.5120** Standard 23.2 mm diameter tube for Oxion photo port **AE.5130** Universal SLR camera adapter with 2x projection
- lens for 23.2 mm tubes. Needs T2 adapter and AE.5120
- **AE.5025** T2 adapter for Nikon D digital SLR cameras
- AE.5040 T2 adapter for Canon EOS digital SLR cameras
- AE.5056CS/C mount with 1.0x objectiveAE.5057CS/C mount with 0.5x objective for 1/2"
- sensor cameras **AE.5058** CS/C mount with 0.33x objective for 1/3"
- sensor cameras
- **AE.5168-O** Heating stage and temperature controller up to 50°C. Only with new microscopes
- $\textbf{SL.5511} \quad \text{NeoLED}^{\texttt{m}} \text{ replacement unit for Oxion}$
- **OX.3010** Aluminium transport case with flight case locks
- **OX.3011** Aluminium transport case with classical locks
- **PB.5155** Microscope slides 76 x 26 mm, ground edges, 50 pieces
- **PB.5165** Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
- **PB.5168**Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm,
100 pieces
- PB.5245 Lens cleaning paper, 100 sheets per pack
- **PB.5255** Immersion oil, n = 1.482 (25 ml)
- PB.5274 Isopropyl alcohol 99% (200 ml)
- **PB.5275** Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs

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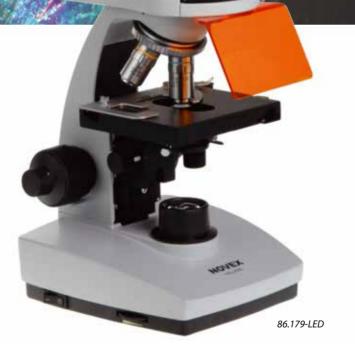
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B+ series fluorescence

The B+ series microscope for fluorescence comes in two versions. Two models are equipped with 4 monochromatic LEDs and two other models are equipped with a 100 W mercury vapor illuminator

LIFE SCIENCE MICROSC

The microscopes are supplied with fluorescence filters and dichroic mirrors for excitation in the blue spectral region, green, violet and ultraviolet



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86.179-LED	
Dimensions	Weight
(h) 500 x (w) 210 x (d) 410 mm	8.0 kg

HIGHLIGHTS

- Trinocular version
- WF10x/20 mm eyepieces
- Reversed nosepiece for maximum 5 objectives
- Plan and plan fluarex IOS DIN objectives
- Integrated X-Y mechanical stage
- Coaxial coarse and fine adjustment with adjustable rack stop
- Height adjustable Abbe condenser with
- iris diaphragm and filter holder
- Transmitted LED illumination with rechargeable batteries and integrated power supply
- Epi-fluorescence illumination with 4 LEDs or 100 W mercury vapor lamp
- Fluorescence filters and dichroic mirror for blue, green, violet and ultraviolet excitation

TECHNICAL SPECIFICATIONS

EYEPIECES

Wide field WF10x/20 mm eyepieces

HEADS

Trinocular 360° rotatable head with 30° inclined tubes. One tube is equipped with diopter adjustment and the interpupillary distance is adjustable between 48to 76 mm. Trinocular light split 100:0/0:100

NOSEPIECE

Nosepiece for maximum 5 objectives and mounted on ball bearings

OBJECTIVES

 The 86.179-LED and 86.178-LED models are supplied with plan 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion infinity corrected IOS DIN objectives The 86.180-LED and 86.181-LED models are supplied with plan fluarex 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion infinity corrected IOS DIN objectives.

These objectives allow observation in violet and ultraviolet excitation

All S40x and S100x oil immersion objectives are spring loaded. All optics have an anti-reflection coating for maximum light throughput and are anti-fungus treated

FOCUSING

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



TECHNICAL SPECIFICATIONS

STAGE

125 x 135 mm stage with 75 x 35 mm X-Y mechanical stage. With Vernier 0.1 mm scale. Removable slide holder. Stages with heating elements and temperature PID controller are also available

CONDENSER

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

TRANSMITTED ILLUMINATION

Adjustable 3 W LED illumination with 3 rechargeable batteries. Batteries for cordless operation. All models have an integration 100 - 240 V power supply

LIFE SCIENCE

ALO

MODEL Plan PL **Plan fluarex PLF** Epi-fluorescence 4x Epi-fluorescence 4x/10x/S40x/S100x 4x/10x/S40x/S100x NeoLED[™] excitation 100 W Hg excitation **IOS objectives IOS objectives** 86.179-LED 86.180-LED . . 86.178-LED 86.181-LED

The Fluarex objectives are suitable for fluorescence excitation in the violet and ultraviolet region 4 NeoLED^{IM} fluorescence: Blue (EX 460 to 470 nm, EM > 515 nm), Green (EX 520 to 530 nm, EM > 590 nm), Violet (EX 395 to 415 nm, EM 425 nm) and Ultraviolet (EX 355 to 375 nm, EM > 455 nm)

FLUORESCENCE ATTACHMENT

- Epi-illumination with 4 LEDs for fluorescence excitation from 460 to 470 nm (blue), 520 to 530 nm (green), 390 to 400 (violet) and 360 to 370 nm (ultraviolet).
 External 100-240 V power supply
 Epi-illumination 100 W mercury vapor lamp.
 External 110 or 230 V power supply
- The fluorescence attachment are equipped with dichroic mirrors and fluorescence filters for blue, green, violet and ultra-violet excitation

PACKAGING

Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil for models with S100x objective. Supplied with orange UV protection shield. All packed in a polystyrene box ACCESSORIES AND SPARE PARTS

- 86.575 Wide field eyepiece WF 10x/20 mm
 86.573 Wide field eyepiece WF 15x/12 mm
 80.882 Wide field eyepiece WF 20x/10 mm
 86.574 Micrometer eyepiece HWF10x/18, 10mm/100, with adjustable eye lens
- 80.839 Eyecup, ø 28 mm, one piece
- 86.550 Plan fluarex 4x /0.12 infinity corrected IOS objective. Working distance 19.75 mm
- 86.562 Plan fluarex 10x/0.25 infinity corrected IOS objective. Working distance 5 mm
- 86.564 Plan fluarex 20x/0.40 infinity corrected IOS objective. Working distance 8.8 mm
- 86.566 Plan fluarex S40x/0.65 infinity corrected IOS objective. Working distance 0.66 mm
- 86.568 Plan fluarex S100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.36 mm
- **86.560** Plan PL 4x /0.10 infinity corrected IOS objective. Working distance 19.75 mm
- **86.562** Plan PL 10x/0.25 infinity corrected IOS objective. Working distance 5 mm
- 86.564 Plan PL 20x/0.40 infinity corrected IOS objective. Working distance 8.8 mm
- 86.566 Plan PL S40x/0.65 infinity corrected IOS objective. Working distance 0.66 mm
- 86.567 Plan PL S60x/0.80 infinity corrected IOS objective. Working distance 0.26 mm
- 86.568 Plan PL S100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.36 mm
- **AE.1111** Micrometer slide 76 x 26mm with 2mm/200 reticle
- AE.5130 Universal photo adapter with 2x projection lens. Need a 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

- 86.860 Köhler diaphragm, pre-centered, to be placed on lamp house
- 86.101 LED replacement uinit for 86.xxx-LED models
- 86.806 Mirror adapter for B and B+ series with halogen illumination only
- AE.5202 Blue filter ø 32 mm
- AE.5203 Yellow filter ø 32 mm
- AE.5204 Neutral density filter ø 32 mm
- AE.5205 Blue acrylic filter ø 32mm
- AE.5227 Spare fuses 250 V, 1A, box of 10 pieces
- **PPB.5155** Microscope slides 76 x 26 mm, ground edges, 50 pieces
- PB.5165 Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
- **PB.5168** Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
- PB.5245 Lens cleaning paper, 100 sheets per pack
- **PB.5255** Immersion oil, n = 1.482 (25 ml)
- PB.5274 Isopropyl alcohol 99% (200 ml)
- **PB.5275** Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs

LABORATORIES STEREO MICROSCOPES

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Laboratories



NEXIUSZOOM	PAGE 148
• STEREOBLUE	PAGE 152
DZ SERIES	PAGE 156
• Z SERIES	PAGE 162
P SERIES	PAGE 168



144 **Beuromex**



StereoMicroscopes Laboratories

Euromex stereo microscopes enable you to examine and analyze your specimens in both two and three dimensions. Combined with crisp LED illumination, Euromex high-performance digital cameras and easy-to-use ImageFocus software, these imaging systems provide perfect solutions for precise analysis and documentation

5

The NexiusZoom stereo microscopes are supplied with a large choice of objectives and stands. Large working distances enable comfortable working under the microscope

STEREO MICROSCOPES

Ideal for dissection, sample preparation, morphology observation and more. With additional lenses and objectives magnifications from 3.3 up to 180 times can be achieved

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

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

For weight of other products see table

HIGHLIGHTS

FEATURED

NZ.1903-S

ZOOM

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- Binocular and trinocular heads with HWF 10x/22 mm eyepieces
- Zoom ratio 1 : 6.7, 6.7x to 45x standard
- Ergonomically designed stands
- Double 3 W LED illumination
- Configurations up to 180x magnification
- Large working distance
- 10 years warranty



NZ.1902-S / NZ.1902-P

TECHNICAL SPECIFICATIONS

EYEPIECES

• Pair of HWF 10x/22 mm eyepieces

HEAD

- Binocular or trinocular heads are with 45° inclined tubes
- Both eyepieces have ± 5 diopter adjustments
- Interpupillary distance is adjustable between 54 mm and 75 mm

OBJECTIVE

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

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

STAND

- Ergonomically designed pillar or rack & pinion stand with LED illumination and 2 object clamps
- Alloy metal cast, hardened off-white painted
- Ergonomically designed universal or boom stands, without illumination
- Articulated arm stand for table mounting, without illumination

5

ILLUMINATION

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

PACKAGING

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

YOUTUBE

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





NZ.8907 / NZ.8905 / NZ.8915

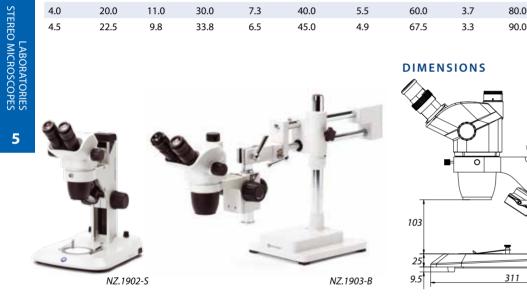
MAGNIFICATIONS

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

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

DIMENSIONS

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MODELS	Binocular	Trinocular	Pillar stand	Rack & pinion stand	Universal stand	Boom stand	Articulated arm stand	Weight (kg)
NZ.1902-P	•		•					5.0
NZ.1902-S	•			•				4.9
NZ.1902-U	•				•			15.6
NZ.1902-B	•					•		22.1
NZ.1902-A	•						•	8.6
NZ.1903-P		•	•					5.2
NZ.1903-S		•		•				5.1
NZ.1903-U		•			•			15.7
NZ.1903-B		•				•		22.2
NZ.1903-A		•					•	8.7

ACCESSORIES AND SPARE PARTS

N7 5363		N7 0050	
NZ.5302	NexiusZoom binocular head with eyepieces	NZ.9850	C-mount adapter with 0.5x lens for 1/2" cameras (suitable for trinocular models)
NZ.5303	NexiusZoom trinocular head with eyepieces		(suitable for trinocular models)
NZ.6010	Pair of HWF 10x / 22 mm eyepieces	AE.5130	Universal SLR camera adapter with 2x projection
NZ.6015	Pair of HWF 15x / 16 mm eyepieces		lens for 23.2 mm tubes. Need T2 adapter
NZ.6020	Pair of HWF 20x / 12 mm eyepieces	AE.5020	T2 adapter for Nikon D digital SLR cameras
NZ.6110	HWF 10x / 22 mm eyepiece with micrometer	AE.5040	T2 adapter for Canon EOS digital SLR cameras
NZ.6099	Pair of eyecups		Other T2 adapters on request
NZ.8905	Auxiliary lens 0.5x. Working distance 165 mm	LE.1972	Ring illuminator with 60 LEDs with adjustable
	(not suitable for NZ.1902-S and NZ.1903-S)		light intensity. External mains adapter
NZ.8907	Auxiliary lens 0.75x. Working distance 120 mm		100-240 V. With segment controller.
NZ.8915	Auxiliary lens 1.5x. Working distance 45 mm		Brightness of 8.500 Lux at height of 100 mm
NZ.8920	Auxiliary lens 2.0x. Working distance 30 mm		and color temperature of 6.400K.
	(not suitable for NZ.1902-S and NZ.1903-S)		Max. internal mounting diameter 60 mm
NZ.8950	Protection glass for NexiusZoom head	LE.1973	Ring illuminator with 144 LEDs with adjustable
			light intensity. External mains adapter
NZ.9010	Ergonomic rack & pinion stand		100-240 V. With segment controller.
	with transmitted and incident LED illuminators		Brightness of 20.000 Lux at height of 100 mm
NZ.9015	Ergonomic pillar stand		and color temperature of 6.400K.
	with transmitted and incident LED illuminators		Max. internal mounting diameter 60 mm
NZ.9020	Universal (single arm) stand	AE.1112	Object micrometer 50 mm
	without NexiusZoom head holder		(divided in 500 parts on glass slide 76 x 26 mm)
NZ.9030	Boom (double arm) stand		
	without NexiusZoom head holder	50.876	Dark field attachment
NZ.9090	NexiusZoom head holder		
	(for NZ.9020 and NZ. 9030)		
NZ.9025	Articulated arm stand with table clamp		
	(without NexiusZoom head holder)		
NZ.9081	NexiusZoom head holder		
	(for articulated arm stand NZ.9025)		
ΔF 5168-N	IZ Heating stage with PID controller up to 50 ⁰ C		
NZ.9950	Standard opaque stage plate		
NZ.9956	Black/white stage plate		
NZ.9570	Pair of object clamps for stage		
NZ.9833	C-mount adapter with 0.33x lens for 1/3" cameras		
	(suitable for trinocular models)		NZ.5302 / NZ.5303
	(saturie for timocular models)		NE.5502 / NE.5505

STEREO MICROSCOPES



FEATURED

- Designed for professional use
- Robust and sturdy
- Dual magnification or Zoom models
- Available in ergonomic rack & pinion, pillar and universal stands
- Double 3 W LED illumination
- Ergonomic carrying grip
- 5 years warranty



STANDS

TECHNICAL SPECIFICATIONS

EYEPIECES

Pair of WF10x/20 mm secured eyepieces supplied with eyecups

HEAD

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

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

DUAL MAGNIFICATION OBJECTIVES

- Nosepiece with dual 1x/3x or 2x/4x revolving objectives
- Magnifications 10x/30x or 20x/40x
- Field of view 20 mm/6.6 mm or 10 mm/5.0 mm
- Working distance 100 mm

ZOOM OBJECTIVE

- Zoom Stereo 0.7x to 4.5x parafocal objective
- Magnification from 7x to 45x
- Field of view 28.5 mm to 4.4 mm
- Working distance 100 mm

5

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

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

More illumination options see chapter 10 (Accessories)



StereoBlue

These stereo (zoom) microscopes are especially developed for laboratory applications, education and are greatly appreciated by biologists, entomologists, geologists

Equipped with either a parfocaal zoom system with 1:6.4 zoom ratio or a double magnification revolver both with LED illumination, the StereoBlue range guarantees crisp, high resolution images

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

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

For weight of other products see table 'Models'



	BINO					
LED					ZOOM	
			100-240V			

TECHNICAL SPECIFICATIONS

ILLUMINATION

With 3 W transmitted and incident LED illuminators which can be used simultaneously or with 3 W transmitted illuminator and built-in 30 LED ring light incident illuminator. Model SB.3903 is equipped with a built-in LED ringlight illuminator in the head. The light intensities can be adjusted separately

CAMERAS

Euromex offers a wide range of industrial and education grade cameras, see chapter 3 (Digital Solutions)

Trinocular

1 1/2



MODELS

5

PACKAGING

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

YOUTUBE

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

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

ACCESSORIES AND SPARE PARTS

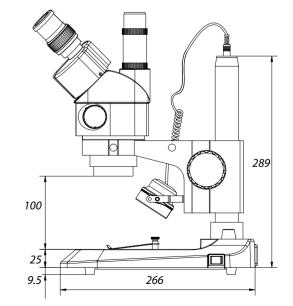
SB.6010	Pair of HWF 10x/20 mm eyepiece
SB.6015	Pair of HWF 15x/15 mm eyepiece
SB.6020	Pair of HWF 20x/10 mm eyepiece
SB.6110	HWF 10x/20 mm eyepiece
	with micrometer
SB.6099	Pair of eyecups
SB.8905	Auxiliary 0.5x lens,
	Working distance 170 mm. Advised only for zoom
	models with pillar or universal stands
	(with rack & pinion models the sample
	thickness is max. 2 cm)
SB.8907	Auxiliary 0.75x lens for zoom models.
	Working distance 114 mm
SB.8915	Auxiliary 1.5x lens for zoom models.
	Working distance 48 mm
	(not suitable for models SB.3903/SB3903-P)
SB.9570	Pair of object clamps for stage
SB.9833	C-mount adapter with 0.33x lens for 1/3" cameras.
	Only for trinocular models
SB.9850	C-mount adapter with 0.5x lens for 1/2" cameras.
	Only for trinocular models
SB.9952	Stage plate transparent, Ø 60 mm
SB.9956	Stage plate black/white, Ø 60 mm
AE.5130	Universal SLR camera adapter with 2x projection
	lens for 23.2 mm tubes. Need T2 adapter
AE.5020	T2 adapter for Nikon D digital SLR cameras
AE.5040	T2 adapter for Canon EOS digital SLR cameras

Other T2 adapters on request

LE.1972	Ring illuminator with 60 LEDs with adjustable
	light intensity. External mains adapter
	100-240 V. With segment controller.
	Brightness of 8.500 Lux at height of 100 mm
	and color temperature of 6.400K.
	Max. internal mounting diameter 60 mm
LE.1973	Ring illuminator with 144 LEDs with adjustable
	light intensity. External mains adapter
	100-240 V. With segment controller.
	Brightness of 20.000 Lux at height of 100 mm
	and color temperature of 6.400K.
	Max. internal mounting diameter 60 mm
AE 1113	Micromator 76 x 26 mm clida E0 mm /E0 division

AE.1112	Micrometer 76 x 26 mm slide, 50 mm/50 divisions
PB.5245	Lens cleaning paper, 100 sheets per pack
PB.5274	lsopropyl alcohol 99% (200 ml)
PB.5275	Cleaning kit: lens cleaning fluid, lint free lens
	tissue, brush, air blower, cotton swabs

DIMENSIONS



STEREO MICROSCOPES

5

DZ series

The modular stereo microscopes of the DZ series combine ergonomics with very high resolution optics. Either standard versions or customized models are available thanks to the large choice of central zoom units, eyepieces, stands and accessories

A fluorescence illumination unit enables scientific research like for studies of vertebrate development and gene function, teratology, genetics and environmental sciences

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

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

For weight of other products see table 'Models'

HIGHLIGHTS

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

TECHNICAL SPECIFICATIONS

EYEPIECES

Pair of EWF 10x/22 mm eyepieces

HEADS

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

CENTRAL ZOOM UNITS

Three central zoom units are available:

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

COMMON MAIN OBJECTIVE

Standard configurations are supplied with a plan apochromatic Common Main objective 1x, working distance 78 mm. Other plan apochromatic Common Main objectives 0.5x (working distance 126 mm) and 2x (working distance 33 mm) are also available All optics have an anti-reflection coating for maximum light throughput and are anti-fungus treated

STAND

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

ILLUMINATIONS

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

PACKAGING

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

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156 **Beuromex**





customized

configuration model

(DZ.0800, 2x DZ.3010,

DZ.2025, DZ.9005,

DZ.9010, DZ.4010

and DZ.5020)



Customized

specification

fluorescence model

STANDARD CONFIGURATIONS

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

MODELS (STANDARD)

LABORATORIES STEREO MICROSCOPES

5

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

All equipped with EWF10x/22mm eyepieces

MAGNIFICATIONS AND FIELD OF VIEWS FOR STANDARD CONFIGURATIONS

				0.5x Objective Working distance 126 mm			1.0x Objective Working distance 78 mm		2.0x Objective Working distance 33 mm			
			Zoom	Total	Field	Total	Field	Total	Field			
Мос	del		indication	magnification	of view	magnification	of view	magnification	of view			
			0.8x	4x	55	8x	27.5	16x	13.7			
			1.0x	5x	44	10x	22	20x	11			
		05	1.5x	7.5x	29.3	15x	14.6	30x	7.3			
	05 0 / DZ16	05 0 / DZ16	0/DZ16	DZ1600 / DZ1605	05 0 / DZ16	2.0x	10x	22	20x	11	40x	5.5
						0/0	0/0	0/0	3.0x	15x	14.6	30x
	Z18	160(4.0x	20x	11	40x	5.5	80x	2.7			
05	DZ1800 / DZ1805	DZ	5.0x	25x	8.8	50x	4.4	100x	2.2			
Z11	180(6.0x	30x	7.3	60x	3.6	120x	1.8			
0/0	DZ		6.4x	32x	6.8	64x	3.4	128x	1.7			
DZ1100/DZ1105			7.0x	35x	6.3	70x	3.1	140x	1.5			
DZ			8.0x	40x	5.5	80x	2.75	160x	1.4			





BUILD YOUR OWN MICROSCOPE

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

CENTRAL ZOOM UNITS

- DZ.0630 Central Zoom Unit 1:6.3 unit with magnifications from 8 to 50 times
- DZ.0800 Central Zoom Unit 1:8 unit with magnifications from 8 to 64 times
- DZ.1000 Central Zoom Unit 1:10 unit with magnifications from 8 to 80 times

HEADS

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

EYEPIECES

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

DIAPHRAGMS

DZ.9010 Double iris diaphragms for increased depth of field

OBJECTIVES

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

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

STANDS

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

FLUORESCENCE ATTACHMENT

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

ACCESSORIES

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

ACCESSORIES

- DZ.9005 Photo port attachment with one 23.2 mm tube
- DZ.9007 Photo port attachment with two 23.2 mm tubes
- DZ.9009 Photo port attachment with one 23.2 mm tube to be used with fluorescence attachment
- DZ.9011 C-mount 0.4x objective for insertion into photo port attachments
- DZ.9013 C-mount 1x objective for insertion into photo port attachments
- AE.1900 Glass object-plate, ø 100mm AE.1903 Acrylic white/black object plate
- LABORATORIES STEREO MICROSCOPES AE.5130 Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Needs T2 adapter T2 adapter for Nikon D digital SLR cameras AE.5020
 - AE.5040 T2 adapter for Canon EOS digital SLR cameras Other T2 adapters on request

- AE.1385 100 W HBO mercury vapor bulb for fluorescence SL.5520 LED replacement for incident LED illumination of DZ.5040 stand
- AE.1112 Micrometer slide, 50 mm/50 divisions
- PB.5245 Lens cleaning paper, 100 sheets per pack
- PB.5274 Isopropyl alcohol 99% (200 ml)
- PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs





STEREO MICROSCOPES

5

Z series

These versatile high-end stereo microscopes are highly appreciated by the professionals of Life Science research and industry because of the excellent optical and mechanical characteristics of this series

Extensively used in research laboratories

HIGHLIGHTS

- Modular system
- Binocular and trinocular models
- Standard HWF10x/23 mm eyepieces
- Stereo zoom heads with fix 45°, 60° or 90° inclined tubes
- Zoom magnification objectives
- Superior resolution optics
- Multiple stands
- 10 years warranty



ZE.1659 and AE.1770

TECHNICAL SPECIFICATIONS

EYEPIECES

Pair of SWF 10x/23 mm eyepieces

HEADS

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

ZOOM MAGNIFICATION OBJECTIVES

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

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



STANDS WITHOUT ILLUMINATION

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

STANDS WITH ILLUMINATION

ST.1735 Rack & pinion stand with 3 W LED illumination and rotatable double-sided coated mirror (one frosted and one aluminium coated side). Especially developed for observation of transparent object. Very suitable equine or porcine embryo collection and transfer. Adjustable light intensity. Supplied with external power supply. Dimensions: 240 x 160 x 290 (D x W x H), min/max height 240-290

 HEAD ZE.1624 + STAND ST.174

 Dimensions
 Weight

 (h) 290 x (w) 160 x (d) 240 mm
 6.9 kg

BINO		<u>360°</u>		POLARIZED		
	HALOGEN				ZOOM	
			100-240V			

ZE.1624 and ST.1735

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Oeuromex

Oeuromex

LABORATORIES STEREO MICROSCOPES

TECHNICAL SPECIFICATIONS

STANDS WITH ILLUMINATION

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

Tilting rack & pinion stand for GEM observation.

- ST.1750 LABORATORIES STEREO MICROSCOPES
 - Round 260 mm base with object clamp AE.5446. Height 300 mm. Halogen 40 W 230 V incandescent illumination.

5

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

BOOM STANDS

- **ST.1720** Articulated one arm boom stand with a 270 x 270 mm base, 610 mm and ø 29mm 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 65.983 a table with 85 mm diameter head holder. Depth positioning of stereo head between 33 and 100 cm. Working distance between 0 and maximum 295 mm

HEAD HOLDERS

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

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

FOCUSING

Coarse adjustment and friction adjustment for head holders for ST.1790, St.1792, ST.1794, ST1796. The head holders ST.1796 and ST.1798 are also equipped with a fine focusing adjustment

PACKAGING

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

ACCESSORIES AND SPARE PARTS

EYEPIECES (without eyecups)

for spectacles

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

MICROMETER EYEPIECES (with adjustable lens) AE 1030 CIVIE10 (21

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

ZOOM STEREO HEADS

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

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

STANDS

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

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

ACCESSORIES AND SPARE PARTS

MICROMETER SLIDES

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

ADDITIONAL LENSES

- (for ZE.1659)
- AE.1850 Additional 0.7x lens. Working distance 233 mm
- Additional 0.57x lens. Working distance 300 mm AE.1822

ADDITIONAL LENSES

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

- AE.1855 Additional 0.3x lens. Working distance 250 mm. Suitable with ST.1720, ST.1770, ST.1780 et ST.1785 stands
- AE.1870 Additional 0.44x lens. Working distance 180 mm. Suitable with ST.1715, ST.1720, ST.1770, ST.1780 and ST.1785 stands

AE.1856 Additional 0.5x lens. Working distance 150 mm.

Suitable with ST.1740. Maximum object size is 15 mm

Additional 0.75x lens. Working distance 97 mm

STEREO MICROSCOPES

AE.1857

AE.1858 Additional 1.5x lens. Working distance 50 mm AE.1859 Additional 2.0x lens. Working distance 34 mm

ADDITIONAL LENSES

(for ZE.1629)

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

ADDITIONAL LENSES

(for ZE.1657)

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euromex

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

PROTECTION WINDOWS

- (to be screwed under the objectives)
- Protection window for all heads of ZE series AE.1845 except ZE.1659
- AE.1825 Protection window for ZE.1659. Not suitable with additional lenses

DARK FIELD

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

POLARIZATION

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

MECHANICAL STAGES

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

OBJECT STAGES

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

OBJECT PLATE - ø 94 mm

AE.1880	Acrylic translucide object plate
AE.1881	Glass transparent object plate

AE.1882 Arcylic black/white object plate

FILTERS - ø 40 mm

A

A

E.1897	Frosted glass filter
E.1898	Blue filter

OBJECT HOLDER

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

SPARE BULB AND FUSES

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

ACCESSORIES

- AE.5059 Projection 0.45x objective with C-mount for cameras with 1/2" sensor. To be placed over a 23.2 mm tube of a ZE series photo tube. Optional reticle available
- AE.5063 Projection 0.7x objective with C-mount for cameras with 2/3" sensor. To be placed over a 23.2 mm tube of a ZE series photo tube. Optional reticle available
- DC.1320 Projection 1x objective with C-mount
- DC.1324 Projection 0.5x objective with C-mount for cameras with 1/2" sensor.

To be inserted into a 23.2 mm tube

- DC.1326 Projection 0.33x objective with C-mount for cameras with 1/3" sensor. To be inserted into a 23.2 mm tube
- AE.5006 Projection 0.6x objective with C-mount
- AE.5130 Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Need T2 adapter
- AE.5020 T2 adapter for Nikon D digital SLR cameras
- T2 adapter for Canon EOS digital SLR cameras AE.5040 Other T2 adapters on request



P series

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

STEREO MICROSCOPES

The P series are compact and light weight, ideal for work in a lab or be taken to any location

NOVEX

DULANO

P-20

HALOGEN

P-20 (60.200)

HIGHLIGHTS

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

TECHNICAL SPECIFICATIONS

EYEPIECES

Secured pair wide field eyepieces WF10x/20 mm. Supplied with eyecups

HEAD

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

OBJECTIVES

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

Using additional eyepieces magnification range can be 5 to 80x

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

STAND

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

NOVEX

ILLUMINATION

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

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

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

LABORATORIES STEREO MICROSCOPES

5

P-10 (60.100)

TECHNICAL SPECIFICATIONS

CAMERAS

Euromex offers a wide range of industrial and laboratory grade cameras, see chapter 9 (Digital Solutions). For P series, the camera replaces one of the eyepieces

PACKAGING

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

ACCESSORIES AND SPARE PARTS

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

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

50.961 Plastic case for P series



50.815

Micrometer slide, 50 mm/50 divisions

Isopropyl alcohol 99% (200 ml)

Lens cleaning paper, 100 sheets per pack

Cleaning kit: lens cleaning fluid, lint free lens

50.820

About Microscope optics

RESOLVING POWER

A human eye can not distinguish two points when these are closer than approximately 0.3 mm or 300 μm to each other. That is what is called "resolving power", the capacity to resolve 2 two points which are close together or "optical resolution", the ability of an imaging system to resolve detail

MAGNIFICATION

If one need to detect details of 10 μ m, one need at least 300 μ m / 10 μ m = 30x magnification in order to resolve this detail. Knowing that common stereo microscopes can magnify - without the help of additional lenses and without introducing additional optical aberrations – up to approximately max. 100 times, the smallest detail that a stereo microscope can resolve is 300 μ m / 100 = 3 μ m. For details smaller than approximately 3 μ m, one can better choose an optical compound microscope to resolve these details

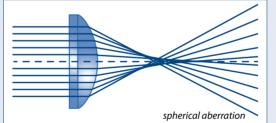
TECHNICAL

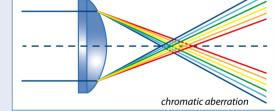
FACTS

OPTICAL RESOLUTION

The resolution of optical microscope can be defined as the shortest distance between two points that the microscope can reveal for a human eye or camera

The theoretical maximum resolution is limited by the diffraction laws of physics and is equal to $\mathbf{r} = \mathbf{1.22} \lambda / (\mathbf{N.A. of objective} + \mathbf{N.A. condenser})$ with $\mathbf{r} =$ resolution, N.A. = numerical aperture, $\lambda =$ imaging wavelength





ABERRATIONS

In practice, the resolution of a microscope is lower than the theoretical resolution due to optical aberrations, Improper illumination or bad alignment of the optics and components of the microscope. Despite corrections for chromatic and spherical aberrations, coma, astigmatism and distortion, the real maximum resolution of a microscope with a 100x objective is about 0.25 µm for 550 nm light rays

Chromatic aberration	Difference in focus of different colors caused by difference in refractive indices for each wavelength
Spherical aberration	Difference in focus caused by defects or irregularities on the surface of a lens
Astigmatism	Rays traveling through two perpendicular planes having different focus
Coma aberration	Variation in magnification over the entrance pupil
Distortion	Stretching of an image as a variation in magnification across the lens field

MODELS

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

AE.1112

PB.5245

PB.5274

PB.5275

LABORATORIES STEREO MICROSCOPES

DigitalSolutions

Laboratories



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Digital Solutions Laboratories

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

Euromex digital laboratory products incorporate all latest available technology in this field like WiFi, HDMI and sCMOS sensors, specially designed for fluorescent microscopy. Our digital solutions package includes the powerful ImageFocus software for image analysis

LABORATORIES DIGITAL SOLUTIONS

DIGITAL MICROSCOPES

FEATURED

BlueLine

HIGHLIGHTS

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

TECHNICAL SPECIFICATIONS

CAMERA

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

SOFTWARE

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

Full microscope specifications and accessories see chapter 1: Biological microscopes

MODELS

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

BioBlue digital (monocular head)

LABORATORIES DIGITAL SOLUTIONS

BioBlue digital microscopes with integrated 3.2 MP USB-2 camera

The DIN WF 10x/18 eyepieces and the semi plan achromatic corrected 45 mm DIN objectives of the BioBlue models

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

generate a crisp high-resolution image.

Digital cameras come with 2 years warranty



BioBlue digital (binocular head)

Weight

Weight

4.1 kg

3.4 kg

BB.4225 / BB.4245 /BB.4255

(h) 340 x (w) 155 x (d) 230 mm

(h) 360 x (w) 155 x (d) 230 mm

Dimensions

Dimensions

BB.4267 / BB.4269

ACCESSORIES AND SPARE PARTS

AE.5572	Wide field eyepieces WF10x/18 mm
AE.5573	Wide field eyepiece WF15x/12 mm
AE.5574	Wide field micrometer eyepiece 10mm/100
AE.5581	Wide field eyepiece WF10x/18 mm with pointer
AE.5582	Wide field eyepiece WF20x/11.5 mm
AE.5365	Eyecup for 28 mm eyepieces
AE.1110	Stage micrometer 1 mm/ 100 parts
AE.5591	Semi plan objective 4x/0.10,
	working distance 37.5 mm
AE.5593	Semi plan objective 10x/0.25,
	working distance 6.54 mm
AE.5594	Semi plan objective 20x/0.40,
	working distance 1.2 mm
AE.5597	Semi plan objective S40x/0.65,
	working distance 0.68 mm
AE.5599	Semi plan objective S60x/0.75,
	working distance 0.2 mm
AE.5601	Semi plan objective S100x/1.25 oil immersion,

- **BB.4300** Aluminium case for BioBlue microscopes
- AE.9981 1 W LED replacement unit
- AE.9991 1 W NeoLED™ replacement unit
- SL.1379 Spare halogen 20 W 12 V bulb for BioBlue polarisation models
- AE.5227 Glass fuses 1 A 250 V, 10 pieces
- PB.5155 Microscope slides 76 x 26 mm, ground edges, 50 pieces
- **PB.5165** Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
- **PB.5168** Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
- PB.5245 Lens cleaning paper, 100 sheets per pack
- **PB.5255** Immersion oil, n = 1.482 (25 ml)
- PB.5274 Isopropyl alcohol 99% (200 ml)
- **PB.5275** Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs

MicroscopeCameras

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



The several USB-2, USB-3 and WiFi cameras in combination with ImageFocus capture and analysis software offer the perfect solution for today's educational, laboratory and industrial microscopy needs. The cameras are suitable for Life and Materials Science microscopes as well as stereo microscopes

6

- AE.5511 Discussion head
- AE.5150 Simple polarization attachment. Polarizer 18 mm diameter mounted in eyepiece, analyzer 32 mm diameter placed in filter holder
- AE.5152 Simple polarization attachment. Polarizer mounted over eyepiece and analyzer 32 mm diameter in filter holder

working distance 0.22 mm

- AE.5153 Simple polarization attachment. Analyzer mounted over eyepiece and 360° rotatable polarizer on table
- AE.5202 Blue filter, 32 mm diameter
- AE.5203 Yellow filter, 32 mm diameter
- AE.5204 Neutral grey filter, 32 mm diameter
- AE.5205 Green filter, 32 mm diameter
- AE.5207 Blue filter plexiglass, 32 mm diameter

LABORATORIES DIGITAL SOLUTIONS

ENTRY LEVEL CAMERAS FOR LABORATORIES PROFESSIONAL CAMERAS FOR LABORATORIES



LABORATORIES DIGITAL SOLUTIONS

6

CMEX USB-2 cameras with CMOS sensor

USB CAMERAS

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

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

IMAGE

₩

MODEL	S Number of pixels (MP)	Sensor	Sensor size (inches)	Pixels size (µm)	Resolutions	Max. frames (p/sec)	Grayscale conversion	Color rendering	Signal/ Noise(db)	Dynamic (db)	Sensibility V/lux-sec (at 550 nm)	Product number
CMEX-1	1.3	CMOS	1/3″	3.6x3.6	1280x1024	15	10 bits	24 bits	55	72	1.3	DC.1300c
					640x480	30						
CMEX-3	3.2	CMOS	1/2″	3.2x3.2	2048 x 1536	10	10 bits	24 bits	44	72	1.3	DC.3000c
					1024 x 768	25						
					640 x 480	40						
CMEX-5	5.0	CMOS	1/2.5″	2.2x2.2	2592x1944	5	10 bits	24 bits	42	65	1.3	DC.5000c
					1280x960	21						
					1024x768	25						
					640x480	38						

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

CMEX Pro USB-2 cameras with CMOS sensor

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

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

MODELS

	Number of pixels (MP)	Sensor	Sensor size (inches)	Pixels size (µm)	Resolutions	Max. frames (p/sec)	Grayscale conversion	Color rendering	Signal/ Noise(db)	Dynamic (db)	Sensibility V/lux-sec	Product number
CMEX-3 Pro	3.2	CMOS	1/2″	3.2 x 3.2	2048x1536	10	12 bits	24 bits	45	72	1.5	DC.3000p
					1024x768	25						
					640x480	40						
CMEX-5 Pro	5.0	CMOS	1/2.5″	2.2 x 2.2	2592 x 1944	5	12 bits	24 bits	45	65	1.5	DC.5000p
					1280 x 960	21						
					1024x 768	25						
					640 x 480	38						

The CMEX Pro cameras are supplied in a deluxe carrying case with USB-2 cable, 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscopes, $1 \text{mm}/100 (10 \mu \text{m/division})$ calibration slide and a 0.45x C-mount objective

LABORATORIES DIGITAL SOLUTIONS SCIENTIFIC GRADE CAMERAS FOR LABORATORIES

sCMFX

LABORATORIES DIGITAL SOLUTIONS

6

sCMEX USB-2 cameras with Scientific sCMOS sensor

USB CAMERAS

The sCMEX-1 and sCMEX-3 cameras are equipped with a scientific sCMOS sensor with 16 bits grayscale conversion and an outstanding 36 bits color rendering. Suitable for brightfield, darkfield and fluorescence. The sCMEX cameras are equipped with a USB-2.0 and supplied with ImageFocus 4 software Besides capturing of images and videos, the software allows measurements on still and live images and to perform annotations on captured images. Compatible with Windows XP, Vista, 7, 8 and 10, both 32 and 64 bits configurations

MAGE

×

Euromex 5 Mpix camera CCD cooled color

The Euromex 2/3 inch CCD Peltier cooled camera is equipped with a Peltier cooling element that allows the camera to be suitable for fluorescence applications. The camera have a USB-2 interface for connection with a computer and is supplied with ImageFocus4 software Besides capturing of images and videos, this software allows measurements on still and live images and to perform annotations on captured images. The software has specific functions for fluorescence like combining capture fluorescence images. Compatible with Windows XP, Vista, 7, 8 and 10, both 32 and 64 bits configurations

MODE	L											
	Number of pixels (MP)	Sensor	Sensor size (inches)	Pixels size (µm)	Resolutions	Max. frames (p/sec)	Grayscale conversion	Color rendering	Signal/ Noise(db)	Dynamic (db)	Sensibility V/lux-sec	Product number
sCMEX-1	1.3	sCMOS	1/3″	3.6 x 3.6	1278 x 1038	25	16 bits	36 bits	55	72	1.5	DC.1300s
					664 x 512	39						
sCMEX-3	3.0	sCMOS	1/2.8″	2.5 x 2.5	2048 x 1536	11	16 bits	36 bits	55	69	1.5	DC.3000s
					1024 x 768	27						
					684 x 512	38						

The sCMEX cameras are supplied in a carton box with USB-2 cable, 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscopes, 1 mm/100 ($10 \mu \text{m}/\text{division}$) calibration slide and a 0.35x C-mount objective

MODEL

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

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

The Euromex CCD cooled camera (DC.5000i) is equipped with a female C-mount thread and can be directly mounted on microscopes with a C-mount adapter. For microscopes with a standard 23.2 mm tube, the 0.67x objective for 2/3" cameras is needed (reference DC.1328 sold seperately)

DC.5000i

PROFESSIONAL CAMERAS FOR SCIENCE

FEATURED

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

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

USB CAMERA

Besides capturing of images and videos, the software allows measurements on still and live images and to perform annotations on captured images. Compatible with Windows XP, Vista, 7, 8 and 10, both 32 and 64 bits configurations. A 2Gb RAM 2.8 GHz computer and 17 inch display is recommended DC.18000p



	Sensor	Sensor size (inches)	Pixels size (µm)	Resolutions	Max. frames (p/sec)	Grayscale conversion	Color rendering	Signal/ Noise(db)	Dynamic (db)	Sensibility V/lux-sec	Product number
CMEX-10 Pro	CMOS	1/2.3″	1.67x1.67	3584x2746	7.2	12 bits	24 bits	35.5	63.5	0.31	DC. 10000p
				1792x1372	24.5						
CMEX-18 Pro	CMOS	1/2.3″	1.25x1.25	4912x3684	6	12 bits	24 bits	42	65	1.3	DC. 18000p
				2456x1842	18						
				1228x922	32						

The CMEX-18 camera is supplied in a carton box with USB-3 cable, 30.0 and 30.5 mm adapters to use with stereo microscopes, 1mm/100 (10μm/division) calibration slide and a 0.45x C-mount objective

SOFTWARE



ImageFocus 4 software

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

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

ImageFocus 4 has a wide range of functions like:

- Measurements can be done on still and live image
- The brightness, contrast and saturation of captured images can be adjusted
- Camera parameters for exposure time, white balance
 and color control are easily accessible
- The software also has specific functions for fluorescence like combining capture fluorescence images
- Compatible with Windows XP, Vista, Windows 7, 8 and 10, both 32 and 64 bits configuration

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

FREE UPDATES AVAILABLE ON EUROMEX.COM



ImageFocus Alpha software

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

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

ImageFocus Alpha has a wide range of functions like:

- Measuring, segmentation & count, stiching of images, Extended Dept of Focus, stacking etc
- The brightness, contrast and saturation of captured images can be adjusted
- Camera parameters for exposure time, white balance
 and color control are easily accessible
- The software also has specific functions for fluorescence like combining capture fluorescence images
- Compatible with Windows XP, Vista, Windows 7, 8 and 10, both 32 and 64 bits configuration

IMAGE FOCUS ALPHA
DC.18000p /DC.10000p
DC.5000-WIFI

6

LABORATORIES DIGITAL SOLUTIONS

HD CAMERAS

0

CAMERAS FOR SCIENCE AND INDUSTRY

FEATURED

HIGHLIGHTS

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



Back panel of VC.3036

LABORATORIES DIGITAL SOLUTIONS

6

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

PACKAGING

The HD-Ultra and HD-Lite 1080p cameras (ref. VC.3036 & VC.3031) are supplied with USB-2 (A-A type) cable, USB-2 mouse, 30.0 and 30.5 mm to 23.2 mm conversion adapters for use with stereo microscopes, 1mm/100 (10µm/division) calibration slide and external power supply

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

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

COMPUTER CONTROLLED VERSUS STAND-ALONE

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

6

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

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

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

MODEL

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

excellent color rendering with frame speeds up to 60 fps. All settings are done automatically and therefore very user friendly. Once connected directly to a HDMI screen, TV or beamer with HDMI input, one can use the mouse-driven onboard software of the HD-Ultra and HD-Lite to capture and save images and videos (.avi format) on the integrated SD memory card. A menu can be displayed right on screen, for live viewing or

The real time images generated with these camera provide

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

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

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

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

VC.3036

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STAND-ALONE

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

COMPUTER CONTROLLED

LABORATORIES DIGITAL SOLUTIONS

6

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

computer and take benefit of the power of the Euromex ImageFocus v4 software. It runs on Windows XP, Vista 7, 8 and 10, both 32 and 64 bits and is supplied with the camera package.

Euromex supplies free updates on www.euromex.com. Besides live imaging and measuring functions on live and captured images, the software saves images in JPG, TIFF or BMP formats or recording videos in .avi format. The software allows measurements on linear sections, angles and surfaces, and also full control over the camera parameters like manual or automatic exposure time, white balance, adjustments of brightness, contrast and saturation on live and captured images. Specific functions for fluorescence like histogram adjustments and combining captured fluorescence images are also included in ImageFocus 4 software

	HD-Ultra	HD-Lite	HD-Mini
Sensor	Sony sensor	Aptina sensor	-
Format	1/2.8", HDTV 1080p (50/60 Hz)	1/2.5", HDTV 1080p (50/60 Hz)	1/2.5", HDTV 720p (50/60 Hz)
Pixels	3264 x 1836 (capture mode), 1920 x 1080 pixels (live view),	2592 x 1944 (capture mode), 1920 x 1080 pixels (live view),	- 1080 x 1720 pixels
	HDMI 60 fps USB 30 fps	HDMI 15 fps	-
	050 50 105	USB 15fps	-
Video	1080p pixels video recording mode	1080p pixels video recording mode	720p pixels video recording mode
Scan mode	Progressive scan	Progressive scan	Progressive scan
Noise	3D Noise Reduction function	3D Noise Reduction function	Noise Reduction function
White balance	Automatic/manual	Automatic/manual	Automatic
Interfaces	Digital HDMI, USB 2	Digital HDMI, USB 2	Digital HDMI
Storage	Standard high speed 8 Gb SD memory card or to USB-2	Standard 4 Gb SD memory card or to USB-2	Standard high speed 4 Gb SD memory card
Camera buttons	On/Off	On/Off	Videostream/freese, AEWB on/ off, save image, cursor on/off
Mounting	C-mount interface	C-mount interface	C-mount interface
Power supply	External main adapter	External main adapter	External main adapter
	100-240 Vac to 12Vdc/2A	100-240 Vac to 12Vdc/2A	100-240 Vac to 5Vdc/1A
Operation	0 – 60° C, 45-85 % humidity	0 – 60° C, 45-85 % humidity	-10 – 40° C, 30-80 % humidity
Storage temperature	-20 to 70° Celsius	-20 to 70° Celsius	-20 to 60° Celsius
Product number	VC.3036	VC.3031	VC.3030

CMEX-WIFI 5.0 MP

digital WiFi camera with 1/2.5 inch CMOS sensor

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

FICAMERA

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

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



MODEL

Pixels size Grayscale Colo Sensibility Product number conversion rendering V/lux-sec (inches) (um) Noico(dh CMEX-WIFI5 CMOS 1/2.5' 2.2 x 2.2 1280 x 720 12 bits 1.0 DC. 5000-WIFI 24 hits 61

camera on cd

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

WIFI CAMERAS

FOR EDUCATION AND SCIENCE

FFATURED

Adding a WiFi camera to your microscope is ideal for wireless

sharing/viewing microscope images. Ideal for demonstrations

Apps for Android for this camera are supplied on cd (Android)

ImageFocus Alpha software can be used for Windows based devices and WiFi connected PC. Also supplied with the

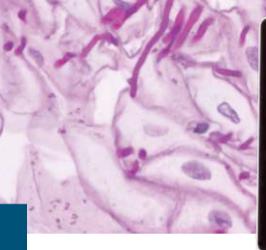
or can be downloaded from the App store (free of charge).

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

or placed were remote viewing is needed

0.45x C-mount objective included

TABLET CAMERAS



LABORATORIES DIGITAL SOLUTIONS

6

ProPad tablet with microscope camera and keyboard-docking station

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

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

SOFTWARE

ProPad-1, ProPad-3 and ProPad-5 are supplied with ImageFocus 4. ProPad-WIFI is supplied with ImageFocus Alpha software for image and video capture and measuring

10.1" Tablet with microscope camera 1280 x 800 pixels HD touchscreen

FEATURED

• Full Windows 8.1, 32 bit system

HIGHLIGHTS

- ImageFocus 4 capture software for PC
- ImageFocus Alpha for WiFi enabled PC
 and Android devices
- Tablet can be fully detached from camera
- Including keyboard
- The keyboard uses a magnetic docking solution so you can loosen it easily and snap on the ProPad



ProPad and keyboard-docking station



SPECIFICATION

Processor	Quad Core 1.33 GHz with HD graphics processor
Screen	1280 x 800 (WGXA) touchscreen, LED backlight
Memory	2 GB DDR RAM, 2 MB cache
Storage	32 GB intern SDD, micro SD up to 32 GB
Webcam	2 MP, 1600 x 1200 pixels front and rear cameras
Connectivity	Micro USB 2.0, WiFi 802.11 b/g/n and Bluetooth 4.0
Audio	Stereo with 3.5 mm audio jack and internal microphone
Battery	Lithium, 4420 mAh, 17 Wh
Housing	Aluminium, white colour, 214 x 128 x 9.8 mm
Weight	788 gram
System	Windows 8.1, 32 bit
Supplied with	Keyboard-docking station

MODELS

	Camera (MP)	Sensor size	Resolution	Pixels size (µm)	ADC	Color rendering	Signal/ Noise(db)	Dynamic (db)	Sensibility V/lux-sec	Interface	Product number
ProPad-1	1.3	1/3″	1280x1024	3.6 x3.6	10 bits	24 bits	55 db	72 db	1.3	USB-2	PP.1300c
ProPad-3	3.2	1/2″	2048x1536	3.2 x3.2	10 bits	24 bits	44 db	72 db	1.3	USB-2	PP.3000c
ProPad-5	5	1/2.5″	2592x1944	2.2 x 2.2	10 bits	24 bits	42 db	65 db	1.3	USB-2	PP.5000c
ProPad-WIFI	5	1/2.5″	2592x1944	2.2 x 2.2	12 bits	24 bits	40.5 db	66.5 db	0.53	WiFi	PP.5000-WIFI



VC.3032

CAMERA

FOR SCIENCE

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

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

CCD CAMERA

DIGITAL

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

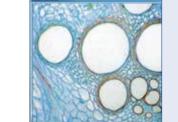
REALTIME

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

MODEL	Sensor	Sensor size (inches)	Number of pixels	Number of image lines	White balance	Sensitivity	Output	Connection
VC.3032	CCD	1/2″	297,984	580	auto/manual	auto/manual	Composite/S-Video	C-mount

Mini USB-2 Video Grabber for CCD color camera

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



Video Window

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NB	
100	

MODEL

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

LABORATORIES DIGITAL SOLUTIONS



FOR ALL MICROSCOPE

CAMERAS

LABORATORIES DIGITAL SOLUTIONS

6

Adapter Guide Microscope and camera

This comprehensive guide will help you select the right adapters for your camera and microscope. Most cameras are plug and play with most microscopes, if not the applicable adapter is indicated. Simply order the adapter with your camera and the system is ready to use. Do you want to connect our cameras to another brand microscope? Euromex offers high

quality adapters for most brands on the market, please contact us for models

MODELS

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

* Camera substitutes one eyepiece

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

AE.5130

NZ.9833

CTV1/3

ACCESSORIES AND SPARE PARTS

DC.1320 C-mount adapter with 1x objective for standard Ø 23.2 mm tubes DC.1323 C-mount adapter with 0.67x objective for standard 23.2 mm tubus and 2/3" camera DC.1324 C-mount adapter with 0.45x objective for standard Ø 23.2 mm tubes and 1/2" camera DC.1326 C-mount adapter with 0.35x objective for standard Ø 23.2 mm tubes and 1/3" camera DC.1330 30 mm to 23.2 mm conversion adapters for stereo microscopes DC.1335 30.5 mm to 23.2 mm conversion adapters for stereo microscopes OX.5120 Standard 23.2 mm diameter tube for Oxion photo port **AE.5130** Universal SLR camera adapter for 23.2 mm tubus with built-in 2x magnification lens. Needs T2 adapter AE.5025 T2 adapter for Nikon D digital SLR cameras T2 adapter for Canon EOS digital SLR cameras AE.5040 MO

OX.9810 CS/C mount with 1.0x objective

- **OX.9833** C-mount adapter with 0.33x objective for Oxion microscopes and 1/3" cameras
- **OX.9850** C-mount adapter with 0.5x objective for Oxion and Oxion Inverso microscopes and 1/2" cameras
- NZ.9833 C-mount adapter with 0.33x objective for NexiusZoom microscopes and 1/3" cameras
- NZ.9850 C-mount adapter with 0.5x objective for NexiusZoom microscopes and 1/2" cameras
- SB.9833 C-mount adapter with 0.33x objective for StereoBlue microscopes and 1/3" cameras
- SB.9850 C-mount adapter with 0.5x objective for StereoBlue microscopes and 1/2" cameras
- AE.5059 C-mount adapter with 0.45x objective for Z series microscopes. To be placed over the Ø 23.2 mm tube AE.5063 C-mount adapter with 0.7x objective for Z series microscopes and 2/3" sensor cameras. To be placed over the Ø 23.2 mm tube

MODELS		DC.1300c	DC.1300s / DC.3000s / DC.3000c / DC.5000c / DC.10000p / DC.3000p / DC.5000p / DC.18000p / DC.5000-WIFI / VC.3030	DC.5000i	VC.3032 / VC.3031	VC.3036	DSLR camera (need brand specific T2 adapter)	other available items
iScope IOS	Binocular*	Plug & Play**	Plug & Play**	DC.1330 + DC.1323	DC.1330 + DC.1324	DC.1330 + DC.1326	AE.5130 + DC.1330 + T2	
iScope IOS	Trinocular	Plug & Play	Plug & Play	DC.1323	DC.1324	DC.1326	AE.5130 + T2	
NexiusZoom	Binocular*	Plug & Play**	Plug & Play**	DC.1330 + DC.1323	DC.1330 + DC.1324	DC.1330 + DC.1326	AE.5130 + DC.1330 + T2	AE.5132
NexiusZoom	Trinocular	Plug & Play	Plug & Play	NZ.9850 or DC.1323	NZ.9850 or DC.1324	NZ.9833 or DC.1326	AE.5130 + T2	NZ.9850
Oxion	Binocular*	Plug & Play**	Plug & Play**	DC.1330 + DC.1323	DC.1330 + DC.1324	DC.1330 + DC.1326	AE.5130 + DC.1330 + T2	AE.5132
Oxion	Trinocular	OX.9833	OX.9850	AE.5132 + DC.1323	OX.9850	OX.9833	AE.5120 + AE.5130 + T2	OX.9810
Oxion Inverso	Trinocular	OX.9833	OX.9850	AE.5132 + DC.1323	OX.9850	OX.9833	AE.5120 + AE.5130 + T2	OX.9810
P series	Binocular	Plug & Play**	Plug & Play**	DC.1335 + DC.1323	DC.1335 + DC.1324	DC.1335 + DC.1326	AE.5130 + DC.1335 + T2	
StereoBlue	Binocular*	Plug & Play**	Plug & Play**	DC.1330 + DC.1323	DC.1330 + DC.1324	DC.1330 + DC.1326	AE.5130 + DC.1330 + T2	
StereoBlue	Trinocular	Plug & Play	Plug & Play	DC.1323 or SB.9850	DC.1324 or SB.9850	DC.1326 or SB.933	AE.5130 + T2	
Z series	Binocular*	Plug & Play**	Plug & Play**	DC.1335 + DC.1323	DC.1335 + DC.1324	DC.1335 + DC.1326	AE.5130 + DC.1335 + T2	
Z series	Trinocular	Plug & Play	Plug & Play	DC.1323	DC.1324	DC.1326	AE.5130 + T2	

Accessories

for microscopy



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DISPOSABLES	PAGE 300
• STAINS	PAGE 301



Accessories for microscopy

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

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



Illumination Solutions

for stereo microscopy



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

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

ILLUMINATION SOLUTIONS

The right light source solution can enhance and reveal the

details you want to examine

S

Multifunctional 150 W halogen or 30 W PowerLED cold light source

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

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



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

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

Multifunctional 100 W halogen cold light source

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



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

Compact single 20 W light source

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



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

Economical and compact dual 2 W LED light source

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



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



Fluorescence 40 Hz ring light source for Z serie zoom objective

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

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and the	_		
S	-	9	-

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

Economical 56 LEDs ring light source

Entry-level 8,000 lux LED ring light source

it source	APR -	And a		
-	-	-	A AL	
	Carlos and			
	-	-		

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

Professional high PowerLED ring light sources LE.1980/ LE.1981

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

MODEL	5					
	Number of LEDs	Color temperature	Illuminance	For mounting diameters	Internal/ external diameter	Controls
LE.1980	48	6,000 K	17,000 lux	from 30 to 66 mm	45/90 mm	Analog controller, Intensity adjustable from 0-100 %
LE.1981	48	6,000 K	17,000 lux	from 30 to 66 mm	45/90 mm	Digital segments controller for 8, 4 or 1 segment, intensity

144 LEDs ring light source with segment illumination

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



Compact 60 LEDs ring light source

Compact 20,000 lux LED ring light source



Power supply	100-240 V AC /12 V DC (50/60 Hz)
External diameter	100 mm
Model	LE.1973
Ring illumination	60 LEDs with adjustable intensity and 4 segment illumination
Color temperature	6,500 K
Illuminance	20,000 Lux at 100 mm distance

for stereo head with diameter from 25 to 61 mm

144 LEDs with adjustable intensity and

230.000 Lux at 100 mm distance

4 segment illumination

from 55 to 200 mm

6,500 K

	Color temperature	
	Illuminance	
	Working distance:	1
-	Mounting	1
Z	Power supply	
	External diameter	
	Model	I

Ring illumination

Color temperature

Working distance:

Illuminance

Mounting

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

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

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

MODELS

Required

power supply

LE.1992

LE.1993

adjustable from 0-100 %

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

adjustable from 0-100 %

Reauirea

power

supply

LE.1992

LE.1993

ACCESSORIES AND SPARE PARTS

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

FIBER LIGHT CONDUCTOR

- LE.5213 Single arm fiber light conductor, Gooseneck self-sustaining, 50 cm long, 4 mm diameter
- LE.5214 Dual arm fiber light conductor, Gooseneck self-sustaining, 50 cm long, 4 mm diameter
- LE.5215 Triple arm fiber light conductor, Gooseneck self-sustaining, 50 cm long, 4 mm diameter
- LE.5219 Dual arm fiber light conductor, Gooseneck self-sustaining, 70 cm long, 4 mm diameter
- LE.5239 Slit ring-shaped fiber light conductor 60 cm long, 8 mm diameter
- LE.5240 Slit ring shaped fiber light conductor 100 cm long, 8 mm diameter
- LE.5241
 Flexible fiber light conductor, curved 90°, 60 cm long, 4 mm diameter

 LE.5216
 Single arm flexible fiber light conductor,
- 100 cm long, 4 mm diameterLE.5235Dual arm flexible fiber light conductor,
- 100 cm long, 4 mm diameter LE.5235-3 Dual arm flexible fiber light conductor, 300 cm long, 4 mm diameter
- LE.5217 Triple arm flexible fiber light conductor, 100 cm long, 4 mm diameter
- LE.5218 Single arm flexible fiber light conductor, 100 cm long, 8 mm diameter
- LE.5220 Single arm flexible fiber light conductor, 200 cm long, 8 mm diameter

- LE.5222 Focusing head for focusing lens LE.5224, LE.5228 or filters LE.5223, LE.5229 and LE.5231 (for fiber light conductors)
- LE.5224 Focusing lens. Requires LE.5222 or LE.5228 for mounting on LE.5213, LE.5214 and LE.5215
- LE.5228 Focusing head with iris diaphragm (for fiber light conductors)
- LE.5223 Set of 3 color filters (red, blue, green), suitable for LE.5222 and LE.5228
- LE.5229 Polarization filter
- LE.5231 Conversion KB12/80B filter

HALOGEN BULBS AND FUSES

- SL.5208
 Halogen 20 W 12 V bulb with reflector

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

FOR LE.1863

SL.1864 Spare fluorescence lamp

FOR LE.1980 AND LE.1981

LE.1984-050 Fresnel lens, working distance from 40 to 80 mm LE.1984-100 Fresnel lens, working distance from 80 to 150 mm LE.1984-200 Fresnel lens, working distance from 150 to 240 mm

- LE.1984 Diffusing filter, for working distance from 40 to 300 mm LE.1985 Glass protection window
- LE.1887 Polarizing filter
- LE.1888 Rotatable polarizing filter
- LE.1992 100-230 V power supply analog controller. Intensity adjustable from 0-100%
- LE.1993 100-230 V power supply digital segment controller. Intensity adjustable from 0-100%

FOR LE.1990 AND LE.1991

LE.1994-050 Fresnel lens, working distance from 40 to 80mm LE.1994-100 Fresnel lens, working distance from 80 to 150 mm LE.1994-200 Fresnel lens, working distance from 150 to 240 mm

- LE.1994 Diffusing filter, for working distance from 40 to 300 mm
- LE.1995 Glass protection window
- LE.1897 Polarizing filter
- LE.1898 Rotatable polarizing filter
- LE.1992 100-230 V power supply analog controller. Intensity adjustable from 0-100%
- LE.1993 100-230 V power supply digital segment controller. Intensity adjustable from 0-100%

PREPARATION ACCESSORIES

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

DISSECTION INSTRUMENTS

- PB.5050Dissecting needle, straight tip with plastic handlePB.5054Dissecting needle, lancet-shaped with plastic handlePB.5056Blunt-pointed probe, Ø2 mm, length 140 mmPB.5058Section lifter with wooden handle
- **PB.5060**Serrated thumb dressing forceps, length 13 mm**PB.5062**Dressing forceps with blunt tips, length 13 cm
- **PB.5064** Dressing forceps with blunt tips, length 20 cm
- **PB.5067** Dissecting forceps with sharp tips, length 13 cm
- **PB.5069** Dissecting forceps with finely curved sharp tips, length 13 cm

PB.5077 Cover glass forceps, length 11 cm



PB.5077

SCISSORS AND BLADES

- **PB.5080**Dressing scissors with blunt/sharp tip, length 14 cm**PB.5084**Dissecting scissors, sharp tips, length 11 cm
- PB.5092 Scalpel with blunt tip, length 15 cm
- PB.5094 Scalpel handle no. 4 (for blades PB.5095 and PB.5096)
- PB.5095 Scalpel blades with sharp tip, 5 pieces per setPB.5096 Scalpel blades with blunt tip, 5 pieces per set
- **PB.5103** Strop, double sided for stropping of scalpels, microtome knifes. Includes stropping paste
- PB.5105
 Razor plano/concave, for sectioning.

 With plastic handle
 Vith plastic handle
- PB.5106
 Microtome knife plano/concave.

 With fixed handle, length 17 cm





PB.5103

HANDHELD MICROTOMES

- MT.5500
 Cylinder microtome.

 Round stage Ø 70 mm with flat black glass top.

 Height adjustable with micrometer division 0.01 mm.

 Complete with plano-concave knife PB.5106

 and wooden cabinet

 MT.5501
 Cylinder microtome.

 Identical to MT.5500 but without knife

 and wooden cabinet

 MT.5503
 Handheld microtome.
 - Box type with table clamp and razor blade holder. Thickness adjustment by 0.025 mm intervals. Complete with wooden cabinet



DISSECTION KIT

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

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



9-PC Dissection kit PB.5114 in wooden cabinet

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

6-PC Dissection kit PB.5111 in plastic case

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



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

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



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

Dissecting set for Koi fish. Consisting of plastic box with forceps with 1 x 2 points (PB.5060), forceps blunt points, 13 cm (PB.5062), scissors, blunt/ sharp points, 14 cm (PB.5080), microscope scissors, sharp points, 11 cm (PB.5084), blunt-pointed probe (PB.5056), scalpel handle no. 4 (PB.5094), 5 scalpel blades with straight tip and 5 blades with blunt tip (PB.5095/PB.5096)

Professional slide preparation kit PB.5125 in plastic deluxe case

Kit with 3 prepared slides, 50 microscope slides (PB.5150) and 100 cover glasses (PB.5165). Two microscope slides with cavity. Canada balsam, dissecting needle (PB.5050 and PB.5054). Dissecting forceps (PB.5067), dissecting scissors (PB.5084) and scalpel (PB.5092). Supplied with plastic box

PB.5125

MICROSCOPE PREPARED SLIDES

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

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

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

HISTOLOGY

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

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.
- Helianthus, sunflower, young stem, c.s. SB.2070
- SB.2130 Helianthus, sunflower, leaf, c.s.
- SB.2205 Monocot/dicot flower, zea mays/ranunculus, c.s.
- SB.2212 Lilium, lily, ovary, c.s.
- SB.2335 Mnium, w.m.
- SB.2355 Rhizopus nigricans, bread mold, developed sporangia
- SB.2377 Diatoms, w.m.
- SB.2381 Spirogyra sp., vegetative mass, w.m.
- SB.2405 Dental plaque, smear

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

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

BOTANY

SB.2305

SB.2310

SB.2386

HISTOLOGY

SH.1001	Loose connective tissue, rabbit	SB.2095	Monocot/dicot stem, zea mays/pumpkin, c.s.
SH.1005	Hyaline cartilage rabbit, section	SB.2105	Hibiscus, young stem, c.s.
SH.1160	Lymph node, rabbit, section	SB.2110	Cucurbita, pumpkin, stem, l.s.
SH.1230	Small intestine, dog, c.s.	SB.2115	Sambucus, elderberry or Morus Alba, mulberry,
SH.1250	Liver, pig, section		stem with cork cambium + lenticels, c.s.
SH.1430	Cerebrum section, dog	SB.2160	Lilium, lily leaf, c.s.
		SB.2225	Zea mays, corn, corn seed with embryo, l.s.
ZOOLO	GY	SB.2235	Pirus, pear, stone cells, section
SZ.1520	Paramecium, w.m.	SB.2240	Triticum aestivum, wheat, kernel, l.s.

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

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

Cyrtomium, holly fern, c.s. of rhizom

Cyrtomium, holly fern, section

Oscillatoria, blue-green algae

Artery and vein, rabbit, c.s

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

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

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

HISTOLOGY

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

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ZOOLOGY

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

BOTANY

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

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

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

BOTANY

SB.2080

SB.2140

SB.2150

SB.2320

SB.2384

SB.2315 Sporophyt w.m.

Volvox sp. w.m.

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

Pinus - pine tree, stem l.s.

Triticum, wheat, leaf, c.s.

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.

Cyrtomium, fern, leaf with sporangia

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

HISTOLOGY OF HUMAN AND MAMMALS

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

ZOOLOGY

290

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

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

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

HISTOLOGY

SH.1043	Cardiac muscle, dog, l.s.	
SH.1070	Squamous epithelium, human,	
	isolated cells from mouth, smear	
SH.1315	Kidney rat, sec. cortex & medulla	
SH.1420	Cerebellum section, dog	
SH.1450	Spinal cord, rabbit, c.s.	
SH.1470	Taste buds, rabbit, l.s.	
7001007		

ZOOLOGY

SZ.1610	Planaria, flat worm, injected intestinal tube, w.m.
SZ.1636	Ascaris megalocephala, horse roundworm, mitosis eggs
SZ.1760	Ctenocephalus canis, dog flea, w.m.

- SZ.1770 Tetranychus, red spider mite, w.m.
- SZ.1930 Bird, wing and down feather, section
- SZ.1940 Chicken, embryo 48 hours, sagittal section

BOTANY

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

SB.2415 Bacillus subtilis, hay bacteria, smear

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

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

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

EPHITELIUM AND CONNECTIVE TISSUES

CH 1001 Lease connective tissue relabit

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.1210Stomach wall, dog, sectionSH.1230Small intestine, dog, c.s.SH.1250Liver, pig, section

URINARY AND GENITAL SYSTEM

- SH.1310Injected kidney rabbit, sec.SH.1330Testis rabbit, c.s.
- SH.1340 Ovary rabbit with developed eggs
- SH.1376 Human chromosomes in blood, female

NERVOUS SYSTEM AND SENSORY ORGANS

SH.1410	Nerve, rabbit, c.s. and l.s.
SH.1430	Cerebrum section, dog
SH.1450	Spinal cord, rabbit, c.s.
SH.1470	Taste buds, rabbit, l.s.

SH.1490 Retina, rabbit, sec.

23 Slides of human and mammal histology PB. 5222 set for education

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

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.
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- SH.1235 Large intestine, dog, c.s.SH.1260 Gall bladder, dog, section
- **SH.1280** Golgi apparatus in epithelial cells of intestine, dog

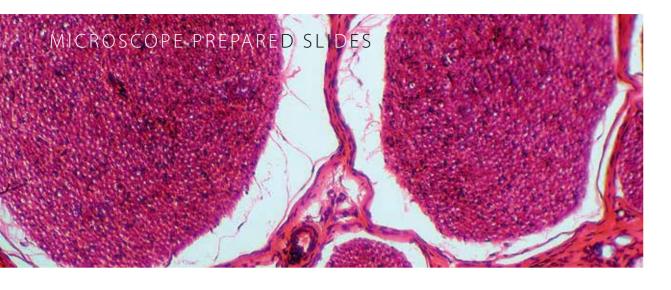
URINARY AND GENITAL SYSTEM

SH.1315	Kidney rat, sec. cortex & medulla
SH.1360	Sperm human, smear
SH.1375	Human chromosomes in blood, male

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

NERVOUS SYSTEM AN SENSORY ORGANS

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



10 Prepared slides of zoology and botany slides PB. 5204 set for hobby

Set with 10 prepared microscopy slides for hobby: zoology and botany. All microscope slides supplied in a plastic box with transparant cover for 25 slides. The set contains:

ZOOLOGY

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

BOTANY

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

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

25 Prepared slides of zoology and botany slides PB. 5218 set for hobby

Set with 25 prepared microscopy slides for hobby: zoology and botany. All microscope slides supplied in a plastic box with transparant 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.
- Nerium oleander, leaf with sunken stomata, c.s. SB.2135
- SB.2210 Lilium, lily, anther with mature pollen, c.s.
- SB.2225 Zea mays, corn, corn seed with embryo, l.s

- ZOOLOGY
 - SZ.1520 Paramecium, w.m. SZ.1535 Euglena virides, a flagellate with eyespot SZ.1580 Hydra with bud, w.m. SZ.1630 Taenia, tapeworm pig, mature proglottid, w.m. SZ.1635 Ascaris megalocephala, horse roundworm, female and male, c.s. Lumbricus, earthworm, c.s. SZ.1640 Daphnia sp., water flea, w.m. SZ.1655 SZ.1705 Apis mellifica, honey bee, posterior leg, w.m. Apis mellifica, honey bee compound eye, c.s. SZ.1710 SZ.1719 Musca domestica, house fly, wing w.m. SZ.1722 Culex pipiens, house mosquito, female, mouth parts Fruitfly, drosophila, giant chromosomes of SZ1724 salivary gland, w.m.





Buromet

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Individual EuroSlides **Prepared slides**

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

These high quality microscope slides are usually supplied directly from stock, at the very best prices. The following slides are available seperately

Individual EuroSlides for Histology

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

EPHITELIUM AND CONNECTIVE TISSUES

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

RESPIRATORY, BLOOD CIRCULATION AND ENDOCRINE SYSTEM

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

DIGESTIVE SYSTEM

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

URINARY AND GENITAL SYSTEM

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

NERVOUS SYSTEM AND SENSORY ORGANS

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

HOW TO ORDER INDIVIDUAL EUROSLIDES

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

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

Individual EuroSlides for Zoology

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

INSECTS

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

SZ.1710 Apis mellifica, honey bee compound eye, c.s.

SZ.1708 Apis mellifica, honey bee, mouth parts

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

SZ.1722 Culex pipiens, house modquito, female,

SZ.1724 Drosophila, fruit fly, giant chromosomes

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

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

SZ.1760 Ctenocephalus canis, dog flea, w.m.

house modquito, spider

SZ.1877 Rana sp, frog, blood smear

SZ.1881 Frog egg, two cells stadium, c.s.

SZ.1883 Frog egg, advanced cleavage c.s.

SZ.1887 Frog egg, early gastrula phase, c.s.

SZ.1889 Frog egg, advanced gastrula phase, c.s.

SZ.1885 Frog egg, blastula phase, c.s.

SZ.1880 Frog uncleaved egg, c.s.

AMPHIBIANS

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

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

of salivary gland, w.m.

mouth parts

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

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 eyespotSZ.1540 Trachelomonas, a free swimming type euglena

COELENTERATA

SZ.1580 Hydra with bud, w.m.

HELMINTHES

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

CRUSTACEANS

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

FOR MICROSC

Individual EuroSlides for Botany

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

ROOTS

SB.2006	Allium cepa, onion, scale epidermis, w.m.
SB.2009	Allium cepa, onion, mitosis root tip, l.s.
SB.2015	Ranunculus, buttercup, root, c.s.
CD 2020	

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

STEMS

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

LEAVES

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

FLOWERS, FRUITS AND SEEDS

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

FERNS AND MOSSES

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

FUNGI

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

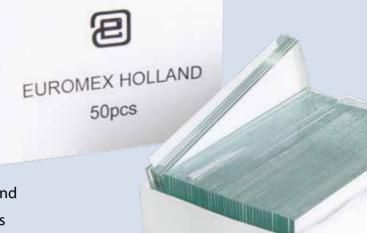
ALGAE

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

BACTERIA

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

DISPOSABLES



MICROSCOPE SLIDE BOXES

Wooden slide box for 25 slides.

Wooden slide box for 100 slides.

Black plastic slide box for 25 slides

White interior with index

White interior with index

PB.5180

Microscope slides are essential and are the platform for your samples

MICROSCOPE SLIDES AND **COVER GLASSES**

PB.5150	Microscope slides 76 x 26 mm, half white glass,	
	cut edges. 50 pieces per pack	PB.5185
PB.5155	Microscope slides 76 x 26 mm white glass,	
	grinded edges. 50 pieces per pack	
PB.5160	Microscope slides 76 x 26 mm with concavity,	PB.5181
	grinded edges. 10 pieces per pack	
PB.5165	Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm.	
	100 pieces per packs	
PB.5168	Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm.	
	100 pieces per pack	

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

300



PB.5150



PB.5180

PB.5168 / PB.5170

STAINS

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

PB.5200 Staining trough for 10 slides

PB.5245 Lens paper. 100 sheets per pack

Melting point 60°C, 200 gram packed

PB.5256 Entellan, guick drying Canada balsam. In bottle (25 ml)

PB.5270 Xylol (bottle), lens cleaner, intermediate agent

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

refractive index nD = 1.482. In bottle (25 ml)

for section slide preparation. In bottle (100 ml)

PB.5210 Fine pointed brush

PB.5250 Solid paraffin.

PB.5255 Immersion oil,



MISCELLANEOUS ACCESSORIES (DISSOLVED) STAINS

Supplied in 25 ml bottles

- PB.5280 Azo carmine-G. Biological stains for animal tissues. Also suitable for bacteria pigmentation
- PB.5283 Eosin yellow. Stain for general overall-view colouring
- PB.5286 Haematoxylin according to Ehrlich. General purpose nuclear stain
- PB.5289 Astra Blue. Stain for vegetal cells. To be used in combination with safranin
- PB.5292 Orange-G, stain for most elementary structures of animal tissues
- PB.5295 Safranine. A general stain for showing nuclei and cellulose walls. To be used in combination with Astra Blue
- PB.5297 Methylene Blue. Biological and bacteriological stain
- PB.5300 Analin Blue, to be used as third colour for Azo pigmentation
- PB.5305 Fuchsine. For staining bacilli in tissue

PB.5210

PB.5280 / PB.5274



euromex

PB.5245



OtherOptical

instruments



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

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

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

MAGNIFIERS & MEASURING MICROSCOPES

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



PB.5020	Magnifier with handle 4x,
	lens Ø 50 mm and handle Ø 8 mm.
	Fits PB.5022
PB.5021	Magnifier with handle 10x,
	aplanatic lens Ø 25 mm and handle Ø 8 mm.
	Fits PB.5022



Heavy stand with adjustable cross clamp,

Handheld magnifier 10x with illuminator,

aplanatic lens Ø 28 mm. Field of view 30 mm.

Base Ø 70 mm. Weight 450 grams.

For PB.5022 and PB.5021

Supplied without batteries

FOLDING MAGNIFIERS

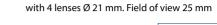
PB.5016	Aplanatic magnifier 6x, doublet.
	Lens Ø 20 mm. Field of view 25 mm
PB.5018	Aplanatic magnifier 15x, doublet.
	Lens Ø 18 mm. Field of view 14 mm
PB.5032	Achromatic magnifier 10x, triplet.
	Lens Ø 21 mm. Field of view 15 mm
PB.5033	Achromatic magnifier 20x, triplet.
	Lens Ø 21 mm. Field of view 8 mm



FOLDING MAGNIFIERS WHITE LED ILLUMINATION

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

PB.5034	Achromatic magnifier 10x, triplet.
	Lens Ø 18 mm. Field of view 15 mm
PB.5036	Aplanatic magnifier 10x, doublet.
	Lens Ø 20 mm. Field of view 20 mm
PB.5037	Achromatic diamond magnifier 10x





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.5020

PB.5022

PB.5026





EUROMEX PB.5034-LED

LED LOUPE PLET 10X-21

PB.5034-LUV

OTHER OPTICAL INSTRUMENTS

euromex 304

MAGNIFIERS & MEASURING MICROSCOPES

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

TABLE MAGNIFIERS

PB.5039	Table magnifier, 15x magnification.
	Glass achromatic lens Ø 19 mm,
	field of view 15 mm
PB.5041	Table magnifier, 10x magnification.
	Glass lens Ø 26 mm, field of view 25 mm
PB.5043	Table magnifier, 4x magnification.
	Plastic lens Ø 57 mm, field of view 55 mm
PB.5040	Table magnifier, 8x magnification.

10mm/100 reticle

Plastic lens Ø 23 mm, field of view 30 mm.

MISCELLANEOUS MAGNIFIERS

111111 Vindention

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

EUROMEY

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

PB.5039 / PB.xxxx



PB.5043 / PB.5040





PB.5049

MEASURING MAGNIFIERS WITH RETICLE

- PB.5044 Measuring magnifier 7x. Eyepiece Ø 18 mm. Field of view 24 mm. Measuring scale 10-0-10 mm divided into 0.1 mm and cross hair Measuring magnifier 7x. PB.5045 Eyepiece Ø 18 mm. Field of view 24 mm. Measuring scale 10-0-10 mm divided into 0.1 mm and cross hair. With 5 interchangeable scales for angle, thickness and linear
- 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

measurements

- PB.5048 Measuring magnifier 4x. Eyepiece Ø 30 mm. Field of view 65 mm. Measuring scale 25-0-25 mm with 0.1 mm graduations
- PB.5047 Measuring magnifier 10x. Eyepiece Ø 25 mm. Field of view 32 mm. Measuring scale 13-0-13 mm

PB.5044 / PB.5048

PB.5046 / PB.5047



PB.5044 Measuring magnifier 7x. Eyepiece Ø w18 mm. Field of view 24 mm. Measuring scale 10-0-10 mm divided into 0.1 mm and cross hair PB.5008 Measuring microscope 20x with LED illumination. Field of view 7.2 mm PB.5010 Measuring microscope 40x with LED illumination. Field of view 3.8 mm PB.5012 Measuring microscope 60x with LED illumination. Field of view 1.45 mm

PB.5014 Measuring microscope 100x with LED illumination. Field of view 0.7 mm





euromex

OTHER

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PB.5045

RefractoMeters





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

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

11



RF.5562

Handheld refractometers Sugar concentration

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

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

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

HIGHLIGHTS

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



Digital handheld refractometer Sugar concentration in juices

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

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

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

11

310

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

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

MODELS

Concentrations of grapes and fruit							
	Model	Scales	Accuracy	Remarks	ATC	Digital	Model
	RF.5635	0-140 °Oe	1 °Oe	Oechsle units	•	•	RD.5635
		0-32 Brix	0.2 Brix	Sugar concentration	•		RD.5645
		0-25 [°] KMW	0.2 [°] KMW	Babo units	•		RD.5645

0-35 Brix

0-45 Brix

1.33-1.40 R.I.

28-65 Brix

Accuracy

0.1 Brix

0.1 Brix

0.0001 R.I.

0.1 Brix

RD.5665

REFRACTOMETERS

Abbe laboratory refractometer Substance indentification

The Abbe laboratory refractometer is a bench-top instrument for high-precision measurements of an index of refraction. The Abbe refractometer is also suitable for determination of the refractive index of solid samples, such as glass, plastics, and polymer films. The instrument is equipped with a built-in thermometer and water connection to control fluid temperatures. Also equipped with a Brix and a refraction index scale and is supplied with a test plate 98,490

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

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

This Abbe table refractometer has scales for measurement of sugar concentrations and refractive indices. Delivered with carrying case, thermometer 0-50° Celsius, calibration plate and adjusting tool

Substance indentification of sugar concentration

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

HIGHLIGHTS

Portable

- Accurate
- Fast
- Automatic Temperature Correction (ATC)

Gemmological

refractometer

Gemmological refractometers are the key

laboratories. Gemstones can be examined using the

optical principles on which these refractometers are

instruments for research in gemological

Gemstones



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

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

MODEL

based

Identification of precious stones

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

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MODEL

OPTICAL INSTRUMENTS

REFRACTOMETERS

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

Alcohol and alcohol-sugar solutions Handheld refractometer

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

MODEL

Sugar concentration, % alcohol and alcohol/sugar solutions

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

Sugar and salt Handheld refractometer

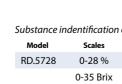
For concentrations of salt, water-soluble salt solutions of sugar. The handheld refractometers are equipped with a Brix scale. With ATC

MODEL

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Cubstance indentification of sugar concentration

Substance ir	ndentification o	f sugar concent	Substance	indentification of	^r sugar concent	ration		
Model	Scales	Accuracy	ATC	Analog	Model	Scales	Accury	ATO
RF.5610	0-100 [°]	1°	•	•	RD.5728	0-28 %	0.1%	•
	0-10 Brix	0.1 Brix				0-35 Brix	0.1 Brix	
						1.30-1.39 RI	0.0001RI	





Battery acid and Coolant Handheld refractometer

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

MODEL

For testing water-soluble coolants and battery acid solutions.

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



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

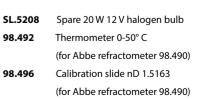
MODELS

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

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

ACCESSORIES AND SPARE PARTS

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



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ATC

Polarimeters & Spectroscopes



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

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

Spectroscopes are used to visualise the light spectrum of the light source of transparent substances



Polarimeter

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

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

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

Accuracy

 \pm 0.1 ° polar scale

Scales

± 180

MODEL

Mode

99.400

HIGHLIGHTS

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

99.431

Observation tubes 100 and 200 mm

ACCESSORIES FOR 99.400

99.410	Measuring tube, 100 mm long
99.415	Measuring tube, 200 mm long

- **99.430** Cover glass for measuring tube Ø 15 mm
 - Rubber ring (for 99.430)

230 V sodium lamp (with 589.3 nm filter)

99.197 Spare sodium 589.3 nm lamp

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OTHER OPTICAL INSTRUMENTS



Handheld spectroscope SP.5100

Handheld spectroscope with fixed slit

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



SP.5150

MODEL

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

Handheld spectroscope SP.5150

Handheld spectroscope with adjustable slit from 0 tot 1 mm

- Direct vision type
- Adjustable eyelens
- Adjustable slit 0 1 mm
- Linear dispersion 60 mm

• Angle dispersion C - F 7°

OTHER OPTICAL INSTRUMENTS

11

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

Euromex handheld spectroscope SP.5155

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

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

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

Comparison prism for comparison

between products

5 Glass cuvettes

Mirror

Euromex handheld spectroscope SP.5200

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

Mirror

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

Comparison prism for comparison

• Wavelength scale 400 - 700 nm

between products

MODE

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



11



SP.5155

Dimensions

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

PS.1001

OTHER OPTICAL INSTRUMENTS

11

OTHER OPTICAL INSTRUMENTS

11

PATHOVIEW SCANNING SOFTWARE · Easy Preview and Scan Slide

tumors

- Quick setting exposure time
- Scan resolution from 1,000~10,000 dpi

- microscopy analysis software, see chapter 9.

- File format: TIF and JPEG
- Images can also be used with ImageFocus Alpha basic

PS.1001

among colleagues, resolving in better and faster diagnostics. The scanned slides can also be used for education purposes. Digitized slides also can be analyzed using the specialists own dedicated software. The software can be used to automate the manual counting of structures, or for classifying the condition of tissue such as is used in grading

The users now have the ability to upload the scanned

images onto a network for sharing and collaboration

PathoScanner 10,000 DPI slide scanner

PATHOLOGY SCANNER

microscope. Often the tissue are stained to highlight

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

Weight

1.0 kg

medical professionals look at tissue slides under a certain structures enabling the specialists to perform their analysis. Euromex now introduces a digital solution for these specialists

In pathology, histology and other medical fields,

• 48-bit, 10,000 dpi, 5 μm resolution Industry-leading scanning speeds

• Superior quality, 3-line CCD sensor

· From basic histology research to life science education

Supports standard microscopy slide 76 x 26 mm

Holder for 2 slides included

HIGHIIGHTS

 Scans full slide Simple user interface

Polarization attachment available



PS.1001 / PS.3001

SPECIFICATION

MODEL

PS.1001

PS.3001

PS.3002

PathoScanner 10,000 DPI slide scanner

Polarization slide holder, for one slide

Double slide holder

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

Choose the right **EuromexMicroscope**

FIELD OF APPLICATION

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

RECOMMENDED MODELS

EDUCATION		RECOMMENDED MODELS
• Botany	Study of plants as branch of biology. Plant anatomy and morphology. Plant genetics and ecology. Plant biochemistry	MicroBlue, EcoBlue, BioBlue, BioBlue.Lab, AP series, EduBlue, StereoBlue
• Digital imaging	Observation and perform analysis on microscope images, storage and share captured and videos	CMEX cameras, CCD cameras, HD cameras, EduPad
• Electronics	Development, production, assembling and inspection of electronic components or circuitry	B+ series (material), EduBlue, StereoBlue, NexiusZoom
• Entomology	Study of insects as branch of zoology. Identification and classification of beetles, flies, termites, moths and butterflies, bees, ants, wasps	MicroBlue, EcoBlue, BioBlue, BioBlue.Lab, AP series, EduBlue, StereoBlue
• Geology, mineralogy	Earth Science; Study of solids, rocks and processes. Identification and classification of rocks and minerals	EcoBlue (polarization), BioBlue (polarization), AP series, EduBlue, StereoBlue
• Geology, petrology	Identification by means of petrographic microscope	EcoBlue (polarization), BioBlue (polarization), AP series, EduBlue, StereoBlue
• Mechanics	Manufacturing and quality inspection of mechanical parts	B+ series (material), EduBlue, StereoBlue, NexiusZoom
• Microbiology	Study of microscopic uni-, multi- or acellular small organisms such as protozoa, algae, bacteria and more. Identification and classification	EcoBlue, BioBlue, B and B+ series
• Mycology	Study of fungi as branch of biology. Identification and classification	EcoBlue, BioBlue, BioBlue.Lab, B and B+ series, AP series, EduBlue, StereoBlue
• Petrology	Study of the composition and structure of rocks as branch of geology. Identification by means of polarization microscopes	EcoBlue (polarization), BioBlue (polarization), AP series, EduBlue, StereoBlue
• Zoology	Animal biology. Study of invertebrated and vertebrated animals and related branches	EcoBlue, BioBlue, BioBlue.Lab, B and B+ series, AP series, EduBlue, StereoBlue
UNIVERSITY LABS	FIELD OF APPLICATION	RECOMMENDED MODELS
• Agronomy & forestry	Selective breeding of plants, fruit and production of food from plants, wood from trees, fuel. Plant physiology and genetics research	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
Anatomopathology	Diagnosis of diseases of organs or tissues. Cytopathology and forensic pathology	BioBlue.Lab, B and B+ series, iScope, Oxion, NexiusZoom, DZ series
Asbestos control	Research of asbestos fibers, environmental protection during restauration of older buildings	iScope (asbestos and polarization), NexiusZoom, DZ series, Z series
• Bacteriology	Study of bacteria as subdivision of microbiology. Identification, classification	BioBlue.Lab, B and B+ series, iScope, Oxion

EDUCATION

UNIVERSITY LABS FIELD OF APPLICATION

RECOM	MENDED	MODELS

• Biochemistry	Study of chemical processes within living organism. Identification and classification	BioBlue.Lab, B and B+ series, iScope, Oxion
	of enzymes and structure of biomolecules	
• Biomedical	Study of medical microbiology, virology, epidemiology, biomedical engineering	BioBlue.Lab, iScope, Oxion
• Biotechnology	Study of living organism in order to make food products, for plant protection	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
	(genetically modified organism) and other bioprocess engineering. Development of	
	pharmaceutical drugs, genetic testing, enzymes production, biofuels, textile	
• Botany	Study of plants as branch of biology. Plant anatomy and morphology.	BioBlue.Lab, B and B+ series, StereoBlue, NexiusZoom, DZ series
	Plant genetics and ecology. Plant biochemistry	
• Cell Culture	Controlled grown of cells and tissues, fungal culture and microbiological culture	Oxion Inverso, NexiusZoom, DZ series
• Chemistry	Study of the composition and properties of chemicals	iScope (material and polarization), Oxion (material), B+ series (material), NexiusZoom, DZ series
Cosmetics	Research, development and testing (safety) of substances for make-up or perfume	iScope (material), Oxion (material), B+ series (material), NexiusZoom, DZ series
Cosmetics	research, development and testing (salety) of substances for make-up of perturne	Scope (material), Oxion (material), be series (material), Nexius20011, DZ series
• Cytology	Study of cell structure, function and chemistry. Detection of cellular diseases	BioBlue.Lab, iScope, Oxion
• Dermatology	Study and diagnosis, treatment of skin, nails and hair diseases	iScope, Oxion, NexiusZoom, StereoBlue, DZ series
• Digital imaging	Observation and perform analysis on microscope images, save and share captured images and videos	CMEX cameras, CCD cameras, HD cameras, Cooled cameras, ProPad
• Electronics	Development, production, assembling and inspection of electronic components or circuitry	iScope (material), Oxion (material), B+ series (material), StereoBlue, NexiusZoom, DZ series, Z series
• Embryology	Study of gametes, embryos and fetuses	BioBlue.Lab, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
• Entomology	Study of insects as branch of zoology. Identification and classification of beetles, flies,	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
	termites, moths and butterflies, bees, ants, wasps	
• Environmental	Monitoring of environmental conditions like water, atmosphere, ecosystems, soil and pollution control	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
Fluorescence	Study of living and non living material with the help of fluorescence markers (fluorochromes)	iScope (fluorescence), Oxion (fluorescence), Oxion Inverso (fluorescence), B+ series (fluorescence), DZ series
• Food and beverages	Quality and safety controls, before, during and after the production of food and beverages	BioBlue.Lab, B and B+ series, iScope, Oxion
• Forensics	Analysis of scientific evidence. Toxicology, fingerprints, Forensic anthropology and archeology,	BioBlue.Lab, iScope, iScope (material and polarization), Oxion, Oxion (material), Oxion Inverted, Oxion Inverted (material),
	forensic botany and entomology	NexiusZoom, DZ series, Z series
• Genetics	Study of genes, heredity in living organism including bacteria, plants, animals and humans	iScope, Oxion, DZ series

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

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

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



LIFE SCIENCE LABORATORIES

FIELD OF APPLICATION

RECOMMENDED MODELS

• Biochemistry	Study of chemical processes within living organism.	BioBlue.Lab, B and B+ series, iScope, Oxion
	Identification and classification of enzymes and structure of biomolecules	
• Biomedical	Study of medical microbiology, virology, epidemiology, biomedical engineering	BioBlue.Lab, iScope, Oxion
• Biotechnology	Study of living organism in order to make food products, for plant protection	BioBlue.Lab, B and B+ series, iScope, Oxion, NexiusZoom, DZ series
	(genetically modified organism) and other bioprocess engineering.	
	Development of pharmaceutical drugs, genetic testing, enzymes production, biofuels, textile	
• Botany	Study of plants as branch of biology. Plant anatomy and morphology.	BioBlue.Lab, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
botany	Plant genetics and ecology. Plant biochemistry	biolite.eub/ibeope/ oxion/ stereobiae/ rexuseoon/, be series
• Cell Culture	Controlled growth of cells and tissues, fungal culture and microbiological culture	Oxion Inverso, NexiusZoom, DZ series
• Chemistry	Study of the composition and properties of chemicals	iScope (material and polarization), Oxion (material), B+ series (material), NexiusZoom, DZ series
Cosmetics	Research, development and testing (safety) of substances for make-up or perfume	B+ series (material), iScope (material), NexiusZoom, Oxion (material), DZ series
• Cytology	Study of cell structure, function an chemistry. Detection of cellular diseases	BioBlue.Lab, iScope, Oxion
Dermatology	Study and diagnosis, treatment of skin, nails and hair diseases	iScope, Oxion, NexiusZoom, StereoBlue, DZ series
• Digital imaging	Observation and perform analysis on microscope images, save and captured the images and videos	CMEX cameras, CCD cameras, HD cameras, Cooled cameras, ProPad
• Embryology	Study of gametes, embryos and fetuses	BioBlue.Lab, B and B+ series, iScope, Oxion, NexiusZoom, DZ series, Z series
C Ellibryology	Study of gametes, emplyos and recuses	biblide. Lab, b and bit series, iscope, oxion, vexids200m, b2 series, 2 series
Fatamala ma		Die Dies Leise Die ender Stevene Orien, Stevene Diese Marine Zeene, DZ ender
• Entomology	Study of insects as branch of zoology. Identification and classification of beetles,	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
	flies, termites, moths and butterflies, bees, ants, wasps	
Environmental	Monitoring of environmental conditions like water, atmosphere, ecosystems, soil and pollution control	BioBlue.Lab, B and B+ series, iScope, Oxion, StereoBlue, NexiusZoom, DZ series
Fluorescence	Study of living and non living material with the help of fluorescence markers (fluorochromes)	iScope (fluorescence), Oxion (fluorescence), Oxion Inverso (fluorescence), B+ series (fluorescence), DZ series
 Food and beverages 	Quality and safety controls, before, during and after the production of food and beverages	BioBlue.Lab, B and B+ series, iScope, Oxion
• Forensics	Analysis of scientific evidence. Toxicology, fingerprints, Forensic anthropology and archeology,	BioBlue.Lab, B and B+ series, B+ series (material), iScope, iScope (material and polarization),
	forensic botany and entomology	Oxion, Oxion (material), Oxion Inverted, Oxion Inverted (material), NexiusZoom, DZ series, Z series
• Genetics	Study of genes, heredity in living organism including bacteria, plants, animals and humans	iScope, Oxion, DZ series
• Hematology	Study and diagnosis, treatment and prevention of diseases of the blood	iScope, B+ series (dark filed), iScope (dark field), Oxion, Oxion (dark field), iScope, Oxion

LIFE SCIENCE

FIELD OF APPLICATION

RECOMMENDED MODELS

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

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

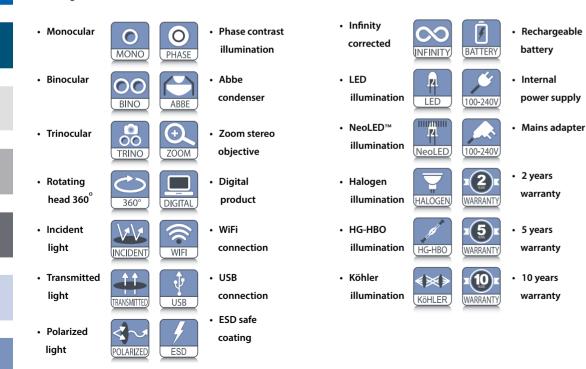
INDUSTRY	FIELD OF APPLICATION	RECOMMENDED MODELS
• Plastics	Development and production of plastics and plastic based compounds.	iScope (material), Oxion (material), Oxion Inverso (material), B+ series (material), StereoBlue, NexiusZoom, DZ series
	Quality assurance and inspection	
• Printing industry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

MORE INFORMATION?

If you need further information or have any questions please feel free to contact our area sales managers or offices. Contact details can be found at the back of this catalogue

ICONS EXPLANATION

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



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