

BioBlue

HIGHLIGHTS

- WF10x/18mm eyepiece(s)
- · BioBlue EVO models with WF 10x/20 mm eyepieces and Köhler NeoLED[™] illumination
- Models with integrated 5.0 MP CMOS camera or with a 7" LCD screen
- Models for polarization applications
- Provided with APL (Antimicrobial Protection Layer)
- · Reversed nosepiece for 4 semi plan objectives
- Integrated X-Y mechanical stage
- Coaxial coarse and fine adjustments with rack stop
- Height adjustable Abbe condenser with iris diaphragm and filter holder
- Monocular models with 1 W LED illumination
- Binocular and trinocular models supplied with 1 W NeoLED[™] illumination for increased light output
- LED models with rechargeable AA batteries and integrated power supply
- Ergonomic stand
- · Warranty 10 years

TECHNICAL SPECIFICATIONS EYEPIECE(S)

- · WF10x/18 mm Wide field
- Secured and with pointer for monocular models
- The BioBlue EVO models are supplied with WF 10x/20 mm eyepieces

HEAD

DIGITAL SOLUTIONS

- All heads are 360° rotatable and secured
- Monocular models with 45° inclined tubes •
- Binocular and trinocular models have 30° inclined tubes, interpupillary distance is adjustable between 48 and 75 mm and equipped with a $\pm\,5$ diopter adjustment on the left tube
- The trinocular head has a fixed light path beamsplitter (50:50) and generates an erect image
- Models with digital head are supplied with a integrated 5.0 MP 1/2" CMOS • sensor with 2560 x 1920 pixel resolution USB 2.0 camera
- Models supplied with a 7" IPS LCD screen .
- Optional discussion head available •













Discussion head



MONOCULAR MODEL BB.4200 320 (h) x 176 (w) x 227 mm (d) | 3.0 kg **BINOCULAR MODEL BB.4260** 360 (h) x 176 (w) x 227 mm (d) | 4.0 kg POLARIZATION MODEL BB.4200-P-HLED 360 (h) x 176 (w) x 227 mm (d) | 4.4 kg

NOSEPIECE

Reversed quadruple nosepiece on ball bearings. Models for polarization are supplied with a swing-out analyzer





OBJECTIVES - 45 MM PARFOCAL

- Supplied with semi plan 4x/0.10, 10x/0.25, S40x/0.65, S60x/0.85, S100x/1.25 oil immersion objectives configuration is depending on model
- The S40x, S60x and S100x oil immersion objectives are spring loaded (to prevent damage to sample and objectives)

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

FOCUSSING

- Coaxial coarse and fine adjustments with 200 graduations. Precision 2 μm per graduation, 0.4 mm per rotation
- Total travel approximately 23 mm
- Supplied with an adjustable rack stop to prevent damage to sample and objectives
- The coarse adjustment is equipped with friction control

STAGE

- 130 x 130 mm with mechanical 70 x 28 mm X-Y translation stage except for models BB.4200 and BB.4205
- These models have a 120 x 120 mm plain stage supplied with two non-removable object clamps
- The models for polarization are supplied with 129 mm round stage, 360° rotatable and two object clamps

POLARIZATION MODELS

- Equipped with analyzer, mounted in a slider under the head
- 360° Rotatable, graduated polarizer on the lamp house
- · Standard supplied with H-LED illumination for correct color rendering (very similar to the halogen light spectrum) and an integrated 100-240 Vac power supply
- · Polarisation attachments for standard microscopes are available optionally

CONDENSER

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

ILLUMINATION

- Binocular and trinocular models are supplied with an intensity adjustable 1 W NeoLED™ illumination system for increased light output
- Monocular models are supplied with an adjustable 1W LED illumination
- The models for polarization are supplied with H-LED illumination for correct color rendering (very similar to the halogen light spectrum) and an integrated 100-240 V power supply. However 20 W halogen illumination is also available for polarization models on special request
- The EVO models are equipped with Köhler NeoLED[™] illumination
- All BioBlue microscopes are supplied with rechargeable AA batteries and integrated 100-240 V power supply for cordless operation

ANTI-THEFT SLOT

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

PACKAGE CONTENT

- Supplied with power cord, three rechargeable AA batteries, dust cover, a spare fuse, white filter, user manual and 5 ml immersion oil for models with S100x objective
- · Polarisation models are supplied with a cross hair eyepiece for centering
- All packed in a polystyrene box



APL (ANTIMICROBIAL PROTECTION LAYER)

Using the same technology already used extensively throughout the healthcare environment in wall coatings, patient lighting, air pressure stabilization and suction liners, APL prevents the growth of unwanted microbes that can cause degradation, discoloration, staining or odors of the Euromex microscopes



Polarization model BB.4260-P-HLED

DIGITAL SOLUTIONS



DIGITAL MODELS

CAMERA

- All the BioBlue digital microscopes are equipped with a 5.0 MP CMOS USB-2 camera
- Maximum resolution 2560 x 1920, 24 bits color depth, up to 30 frames per second
- Delivered with ImageFocus Plus software, USB-2 cable and a micrometer 1mm/100 slide
- Warranty for the camera is 2 years

SOFTWARE

- The ImageFocus Plus software allows to save images in .jpg, .tif, .bmp or .dicom formats as well as .avi format videos.
- Images can be annotated and measurements can be performed in live or captured images
- Compatible with Windows 7, 8, 10 and 11, both 32 and 64 bits configurations
- Mac OS version is also available
- Updates can be downloaded on our website www.euromex.com

MODELS WITH LCD SCREEN

- 7" IPS LCD screen
- Screen resolution 1920 x 1080 @ 30 fps
- Save images and videos directly to micro SD card
- Image resolution upto 1844 x 1080 in JPEG format
- Video resolution 1280 x 720 AVI format
- Basic measurement function (line) with calibration. Calibration slide available as option
- Warranty for the screen is two years







Digital binocular head



Digital LCD head



• BB.4225



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MODELS	Mono	Bino	Trino	4/10/40x SMP objectives	S60x SMP objective	S100x SMP objective	Mechanical X-Y stage	LED	NeoLED™	Köhler illumination ⁽¹⁾	Polarization ⁽²⁾
BB.4200	•			•				•			
BB.4220	•			•			•	•			
BB.4240	•			•	•		•	•			
BB.4250	•			•		•	•	•			
BB.4260		•		•		•	•		•		
BB.4260-E		•		•		•	•		•	•	
BB.4263		•		•	•		•		•		
BB.4243			•	•	•		•		•		
BB.4253			•	•		•	•		•		
BB.4253-E			•	•		•	•		•	•	
BB.4220-P-HLED	•			•				•			•
BB.4240-P-HLED	•			•		•		•			•
BB.4250-P-HLED	•			•	•			•			•
BB.4261-P-HLED		•		•					•		•
BB.4263-P-HLED		•		•	•				•		•
BB.4260-P-HLED		•		•		•			•		•
BB.4241-P-HLED			•	•					•		•
BB.4243-P-HLED			•	•	•				•		•
BB.4253-P-HLED			•	•		•			•		•

⁽¹⁾ EVO models are supplied with WF 10x/20 mm eyepieces and Köhler NeoLED^(tm) illumination

⁽²⁾ Polarization models are supplied with H-LED illumination - very similar light spectrum to the halogen illumination - and an eyepiece

with crosshairs for centering. 20 W halogen illumination is also available for polarization models on special request

DIGITAL MODELS

MODELS	Mono	Bino	LCD*	4/10/40x SMP objectives	S60x SMP objective	S100x SMP objective	Mechanical X-Y stage	1W 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
BB.4200-LCD			•	•				•		2.9
BB.4220-LCD			•	•			•	•		3.4

* Models with a 7" LCD screen, 1920x1080 pixels, SD card for images and video

ACCESSORIES AND SPARE PARTS

EYEPIECES

AE.5571	Wide field eyepiece WF 5x/18 mm	AE.5591	Se
AE.5572	Wide field eyepiece WF10x/18 mm	AE.5593	Se
AE.5572-E	Wide field eyepiece WF 10x/20 mm for BB EVO	AE.5594	Se
AE.5573	Wide field eyepiece WF15x/12 mm	AE.5597	Se
AE.5573-E	Wide field eyepiece WF 15x/12 mm for BB EVO	AE.5599	Se
AE.5574	Wide field micrometer eyepiece 10mm/100	AE.5601	Se
AE.5581	Wide field eyepiece WF10x/18 mm with pointer		W
AE.5581-E	Wide field eyepiece WF 10x/20 mm with pointer for BB EVO		
AE.5582	Wide field eyepiece WF20x/11.5 mm		
AE.5582-E	Wide field eyepiece WF 20x/12.5 mm for BB EVO		
AE.5365	Eyecup for 28 mm eyepieces		
AE.5365-E	Pair of eyecups for eyepieces for BB EVO		

OBJECTIVES 45 MM PARFOCAL

Semi plan objective 4x/0.10. Working distance 37.5 mm
Semi plan objective 10x/0.25. Working distance 6.54 mm
Semi plan objective 20x/0.40. Working distance 1.2 mm
Semi plan objective S40x/0.65. Working distance 0.68 mm
Semi plan objective S60x/0.75. Working distance 0.2 mm
Semi plan objective S100x/1.25 oil immersion.
Working distance 0.22 mm



MISCELLANEOUS

CAMERA ACCESSORIES

Other T2 adapters on request

DISPOSABLES

AE.5130

AE.5025

AE.5040

PB.5155

PB.5165

PB.5168

PB.5245

PB.5255

PB.5274

PB.5275

AE.1110	Stage micrometer 1 mm/ 100 parts
AE.5511	Discussion head without eyepieces. Delivered with two eyepieces
	when the head is ordered mounted on microscope
AE.5202	Blue filter, diameter 32 mm
AE.5203	Yellow filter, diameter 32 mm
AE.5204	Neutral grey filter, diameter 32 mm
AE.5205	Green filter, diameter 32 mm
AE.5207	Blue filter plexiglass, diameter 32 mm
BB.4300	Aluminium case for BioBlue microscopes
AE.9918	Nylon microscope bag (25 x 39 x 19 cm)
AE.9912	Euromex dust cover medium (35 x 39 cm)
BB.9602	Analyzer in slider
AE.9981	1 W LED replacement unit
AE.9981-H	1 W LED (halogen color type) replacement unit (only for monocular
	versions)
AE.9991	1 W NeoLED™ replacement unit
AE.9991-H	1 W NeoLED [™] replacement unit (only for binocular and trinocular
	versions)
SL.1379	Spare halogen 20 W 12 V bulb for BioBlue
	polarization models
AE.5227	Glass fuses 1 A 250 V, 10 pieces

Universal SLR camera adapter with 2x projection

Microscope slides 76 x 26 mm, ground edges, 50 pieces

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

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

Cleaning kit: lens cleaning fluid, lint free lens tissue, brush,

lens for 23.2 mm tubes. Need T2 adapter

Lens cleaning paper, 100 sheets per pack

Immersion oil, n = 1.515 (25 ml)

Isopropyl alcohol 99% (200 ml)

air blower, cotton swabs

T2 adapter for Nikon D digital SLR cameras T2 adapter for Canon EOS digital SLR cameras





EDUCATION

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POLARIZATION ATTACHMENTS

Not suitable for the BioBlue EVO models

AE.5150	Simple polarization attachment. Polarizer 18 mm diameter
	mounted in eyepiece, analyzer 32 mm diameter placed in
	filter holder
AE.5151	Simple polarization attachment. Polarizer mounted over eyepiece
	and analyzer 32 mm diameter in filter holder
AE.5152	Simple polarization attachment. Polarizer mounted over eyepiece
	and analyzer 32 mm diameter in filter holder
AE.5153	Simple polarization attachment. Analyzer mounted over eyepiece
	and 360° rotatable polarizer on table
AE.5154	Polarizer in mount, to place over eyepiece
AE.5155	Polarization attachment with analyzer and slider, rotatable stage for
	X-Y mechanical stage and polarizer on lamp house
AE.5155-P	Polarization attachment with analyzer and slider, rotatable stage for
	stage with clamps and polarizer on lamp house
AE.5156	Polarization attachment with analyzer and slider,
	and polarizer on lamp house
AE.5158	Polarization kit with analyzer in slider and small rotatable
	(75 x 50 mm) stage with two clamps to be mounted on X-Y stage.
	Rotatable 360° polarization filter to be mounted on lamphouse
AE.5158-P	Polarization kit with analyzer in slider and small rotatable (100 ${\rm x}$ 65
	mm) stage with two clamps to be mounted on plain stage. 360°

Rotatable polarization filter to be mounted on lamphouse







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