

BioBlue

HIGHLIGHTS

- WF10x/18mm eyepiece(s)
- BB EVO models with WF 10x/20 mm eyepieces and Köhler NeoLED™ illumination
- Models with integrated 5.0 MP CMOS camera
- Models for polarization applications
- Provided with APL (Anti-bacterial 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 batteries and integrated power supply
- Ergonomic stand
- Warranty 10 years



● BB.4240

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

- 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 ± 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
- Optional discussion head available

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



Monocular head



Binocular head



Trinocular head



Digital monocular head



Digital binocular head



Discussion head

OBJECTIVES

- 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 μ m 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 – except halogen models – are supplied with rechargeable batteries and integrated power supply for cordless operation

PACKAGE CONTENT

- Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil for models with S100x objective
- Models with halogen illumination are supplied with a blue filter and spare bulb, models with LED illumination are supplied with a white filter, all polarisation models are supplied with a cross hair eyepiece for centering
- All packed in a polystyrene box



APL (ANTI-BACTERIAL PROTECTION LAYER)

APL is a revolutionary paint treatment applied to the most critical parts of our products. A microscope with APL will restrict the growth of micro-organisms, including bacteria and mold



● Polarization model BB.4260-P-HLED

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 and 10, both 32 and 64 bits configurations
- Mac OS version is also available
- Updates can be downloaded on our website www.euromex.com



● BB.4225

MODELS	Mono	Bino	Trino	Digital	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.4205	•			•	•				•			
BB.4225	•			•	•			•	•			
BB.4245	•			•	•	•		•	•			
BB.4255	•			•	•		•	•	•			
BB.4267		•		•	•		•	•		•		
BB.4269		•		•	•	•		•		•		
BB.4220-P-HLED	•				•				•			•
BB.4240-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™ 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

ACCESSORIES AND SPARE PARTS

EYEPIECES

AE.5571	Wide field eyepiece WF 5x/18 mm
AE.5572	Wide field eyepiece WF10x/18 mm
AE.5572-E	Wide field eyepiece WF 10x/20 mm
AE.5573	Wide field eyepiece WF15x/12 mm
AE.5573-E	Wide field eyepiece WF 15x/12 mm for BB EVO
AE.5574	Wide field micrometer eyepiece 10mm/100
AE.5581	Wide field eyepiece WF10x/18 mm with pointer
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

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. Working distance 0.22 mm

MISCELLANEOUS

AE.1110	Stage micrometer 1 mm/ 100 parts
AE.5511	Discussion head
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.9991	1 W NeoLED™ replacement unit
SL.1379	Spare halogen 20 W 12 V bulb for BioBlue polarization models
AE.5227	Glass fuses 1 A 250 V, 10 pieces

CAMERA ACCESSORIES

AE.5130	Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Need T2 adapter
AE.5025	T2 adapter for Nikon D digital SLR cameras
AE.5040	T2 adapter for Canon EOS digital SLR cameras <i>Other T2 adapters on request</i>

DISPOSABLES

PB.5155	Microscope slides 76 x 26 mm, ground edges, 50 pieces
PB.5165	Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
PB.5168	Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
PB.5245	Lens cleaning paper, 100 sheets per pack
PB.5255	Immersion oil, 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



● BB.4300



● AE.9918



● AE.9912

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 x 65 mm) stage with two clamps to be mounted on plain stage. 360° Rotatable polarization filter to be mounted on lamphouse

● BioBlue with polarization kit

