

BioBlue

HIGHLIGHTS

- WF10x/18mm eyepiece(s)
- BB EVO models with WF 10x/20 mm eyepieces and Köhler NeoLED™ illumination
- · Models with integrated 3.2 MP CMOS camera
- · Models for polarization applications
- · 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

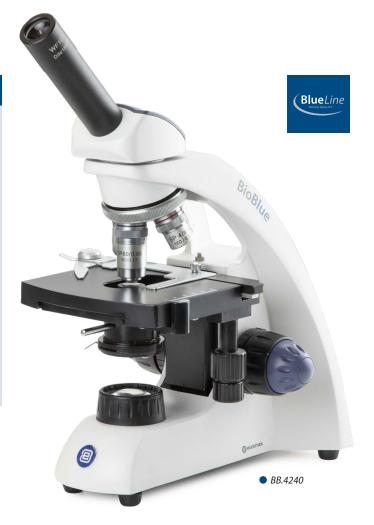
TECHNICAL SPECIFICATIONS

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 $a \pm 5$ diopter adjustment on the left tube
- The trinocular head has a fixed light path beamsplitter (50:50) and generates an erect image
- sensor with 2048 ×1635 pixel resolution USB 2.0 camera



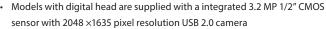
MONOCULAR MODEL BB.4200

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



· Optional discussion head available



Monocular head



Binocular head



Trinocular head



Digital monocular head



Digital binocular head



Discussion head



NOSEPIECE

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

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 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 a 20 W halogen illumination for correct color rendering 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



- 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





DIGITAL MODELS

CAMERA

- All the BioBlue digital microscopes are equipped with a 3.2 MP CMOS USB-2 camera
- Maximum resolution 2048 ×1635, 24 bits color depth, up to 10 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 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 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



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-LED	•				•				•			•
BB.4240-P-LED	•				•	•			•			•
BB.4261-P-LED		•			•					•		•
BB.4263-P-LED		•			•	•				•		•
BB.4260-P-LED		•			•		•			•		•
BB.4241-P-LED			•		•					•		•
BB.4243-P-LED			•		•	•				•		•
BB.4253-P-LED			•		•		•			•		•

 $^{^{(1)}}$ 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



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 \$100x/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)



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

Other T2 adapters on request

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	



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



AE.5155-P

BioBlue with polarization kit





