

BioBlue

HIGHLIGHTS

- WF10x/18mm eyepiece(s)
- 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 designed stand
- Warranty 10 years



BB.4240

TECHNICAL SPECIFICATIONS

EYEPIECE(S)

- Wide field WF10x/18 mm secured eyepiece with pointer for monocular models
- The eyepieces of the binocular and trinocular models are supplied without pointer

HEAD

- 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
- All heads are 360° rotatable and secured with a screw
- Models with an integrated USB-2 camera are supplied with a 3.2 MP 1/2" CMOS sensor with 2048 x 1536 pixel resolution
- The BioBlue microscope can also be supplied with a discussion head



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

- All models are supplied with semi plan 4x/0.10, 10x/0.25 and S40x/0.65 objectives
- Models with an S60x/0.85 or S100x/1.25 oil immersion objective are also available
- The S40x, S60x and S100x oil immersion objectives are spring loaded
- 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 adjustments are 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 EQUIPMENT

- The swing-out analyzer is mounted in a slider under the head.
- The rotatable 360° polarizer fits on the collector lamp

CONDENSER

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

ILLUMINATION

- Binocular and trinocular models are supplied with an adjustable 1 W NeoLED™ illumination system for increased light output
- Monocular models have a standard adjustable 1W LED illumination
- All BioBlue microscopes – except the polarization models – are supplied with rechargeable batteries and integrated power supply for cordless operation
- The models for polarization are standard supplied with a 20 W halogen illumination for correct color rendering and an integrated 100-240 Vac power supply
- On special request LED illumination is also available



CAMERA AND SOFTWARE

- Models with integrated 3.2 MP CMOS USB-2 camera are supplied with the ImageFocus 4 capture and measurement software
- Besides capturing of images and videos, this software allows measurements on still and live images and to perform annotations on captured images
- Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations

PACKAGING

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

MODELS

	Monocular	Binocular	Trinocular	Digital	S60x objective	S100x objective	Mechanical X-Y stage	LED	NeoLED™	Polarization ⁽¹⁾
BB.4200	•							•		
BB.4220	•						•	•		
BB.4240	•				•		•	•		
BB.4250	•					•	•	•		
BB.4260		•				•	•		•	
BB.4263		•			•		•		•	
BB.4243			•		•		•		•	
BB.4253			•			•	•		•	
BB.4205	•			•				•		
BB.4225	•			•			•	•		
BB.4245	•			•	•		•	•		
BB.4255	•			•		•	•	•		
BB.4267		•		•		•	•		•	
BB.4269		•		•	•		•		•	
BB.4220-P	•									•
BB.4240-P	•				•					•
BB.4260-P		•				•				•

(1) Polarization models are supplied with halogen illumination

DIGITAL MODELS

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 or 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
- Updates can be downloaded on our website www.euromex.com

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
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- 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
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- 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
- AE.5153** Simple polarization attachment.
Analyzer mounted over eyepiece and 360° rotatable polarizer on table
- 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.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
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- 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
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- 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 polarization 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
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- 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.4225