

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
- With 1 W LED, 1 W NeoLED, or 20 W halogen illumination
- With rechargeable batteries and integrated power supply
- Ergonomic designed stand
- Warranty 10 years



BB.4240

TECHNICAL SPECIFICATIONS

EYEPIECE(S)

- WF10x/18 mm Wide field
- secured and with pointer for monocular models

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 3.2 MP 1/2" CMOS sensor with 2048 x 1536 pixel resolution USB 2.0 camera
- 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

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

FOUSSING

- 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

- analyzer is mounted in a slider under the head
- 360° rotatable, graduated polarizer on the lamp house
- 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
- polarisation attachments for standard microscopes are available optionally



Polarization model BB.4260-P

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
- All BioBlue microscopes – except halogen models – are supplied with rechargeable batteries and integrated power supply for cordless operation

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 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

MODELS

| | Mono | Bino | Trino | Digital | 4/10/S40 SMP objective | S60x SMP objective | S100x SMP 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 | | • | | | • | | • | | | | • |
| BB.4220-P-LED | • | | | | • | | | | • | | • |
| BB.4240-P-LED | • | | | | • | • | | | • | | • |
| BB.4260-P-LED | | • | | | • | | • | | • | | • |

(1) Supplied with 20 W halogen illumination except BB.4xx1-P-LED versions, which are supplied with a LED with a very similar light spectrum to 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 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



BB.4225

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.
Working distance 0.22 mm

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

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

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

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



● AE.9918

- 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.5150



● AE.5151



● AE.5152



● AE.5154



● AE.5156



● AE.5155-P



● AE.5158-P