BioBlue

HIGHLIGHTS

- WF 10x/18mm eyepiece(s)
- BioBlue EVO models with WF 10x/20 mm eyepieces and Köhler NeoLED™ illumination
- Models with an integrated 5.0 MP CMOS camera
- Models with a 7" LCD screen or tablet
- Models for polarization applications
- Back panel with smart storage solutions
- Reversed nosepiece for 4 semi plan objectives
- Color-coded height adjustable Abbe condenser
- Quick focus aid
- Dual illumination system: white & halogen colored 1 W LED illumination
- Cordless operation with rechargeable AA batteries
- Universal USB-C 5 Vdc charging port
- Multiplug 100-240 Vac / 5 Vdc adapter
- Provided with APL (Antimicrobial Protection Layer)
- Warranty 10 years



● *BB.4260*

TECHNICAL SPECIFICATIONS

EYEPIECE(S)

- WF 10x/18 mm Wide field
- Polarization models are supplied with one extra WF 10x/18 mm eyepiece with crosshairs and micrometer
- 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 5.0MP 1/2.8" CMOS sensor with 2560 x 1920 pixel resolution USB 2.0 camera
- Models supplied with a 7" IPS LCD screen
- Models supplied with a 12" tablet
- Optional discussion head available

MONOCULAR MODEL EBB-4200
320 (h) x 176 (w) x 227 mm (d) | 3.0 kg
BINOCULAR MODEL EBB-4260
360 (h) x 176 (w) x 227 mm (d) | 4.0 kg
POLARIZATION MODEL EBB-4200-P-DLED
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


Monocular head


Binocular head


Trinocular head


Discussion head


Digital mono head

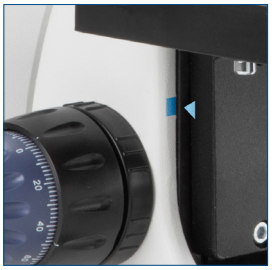

Digital bino head


Digital LCD head


Digital tablet head

FOCUSING

- 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
- The BioBlue is equipped with a quick focus aid



Quick focus aid

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 100-240 Vac / 5 Vdc USB multi-plug power adapter, three rechargeable type AA batteries, dust cover, white filter, user manual and 5 ml immersion oil for models with S100x oil objective
- Polarization models are supplied with a cross hair eyepiece for centering
- All packed in a polystyrene box

STAGE

- 130 x 130 mm with mechanical 70 x 28 mm X-Y translation stage except for models EBB-4200 and EBB-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

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 MODELS

- Supplied with one extra WF 10x/18 mm eyepiece with crosshairs and micrometer
- Equipped with analyzer, mounted in a slider under the head
- 360° Rotatable, graduated polarizer on the lamp house
- Standard supplied with D-LED illumination for correct color rendering (very similar to the halogen light spectrum)
- Polarisation attachments for standard microscopes are available optionally

CONDENSER

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

DUAL ILLUMINATION SYSTEM

- 1 W white (Neo)LED: 6000 – 6500 K, ideal for standard observations with crisp, cool lighting
- 1 W halogen colored (Neo)LED: 3000 – 3200 K, enhances contrast for specific applications such as transparent objects

The polarization models are also supplied with the double LED illumination for correct color rendering (very similar to the halogen light spectrum)

The EVO models are equipped with Köhler NeoLED™ illumination

NEOLED™ ILLUMINATION

Binocular and trinocular models are supplied with an adjustable NeoLED™ illumination system for increased light output



Polarization model EBB-4260-P-DLED

BACK PANEL – ORGANIZED & EFFICIENT

The BioBlue features a revolutionary back panel with smart storage solutions:

1. 5-slide specimen holder
2. Dual tool holders
3. Built-in power supply storage
4. Storage for immersion oil
5. Dual illumination switch
6. Integrated cable roll-up system
7. USB-C power input



MODELS	Mono	Bino	Trino	4/10/40x SMP objectives	S60x SMP objective	S100x SMP objective	Mechanical X-Y stage	1 W Dual color LED	1 W Dual color NeoLED™	Köhler illumination[1]	Polarization[2]
EBB-4200	•			•				•			
EBB-4220	•			•			•	•			
EBB-4240	•			•	•		•	•			
EBB-4250	•			•		•	•	•			
EBB-4260		•		•		•	•		•		
EBB-4260-E		•		•		•	•		•	•	
EBB-4263		•		•	•		•		•		
EBB-4243			•	•	•		•		•		
EBB-4253			•	•		•	•		•		
EBB-4253-E			•	•		•	•		•	•	
EBB-4220-P-DLED	•			•				•			•
EBB-4240-P-DLED	•			•	•			•			•
EBB-4250-P-DLED	•			•		•		•			•
EBB-4261-P-DLED		•		•					•		•
EBB-4263-P-DLED		•		•	•				•		•
EBB-4260-P-DLED		•		•		•			•		•
EBB-4241-P-DLED			•	•					•		•
EBB-4243-P-DLED			•	•	•				•		•
EBB-4253-P-DLED			•	•		•			•		•

[1] EVO models are supplied with WF 10x/20 mm eyepieces and Köhler NeoLED™ illumination

[2] Polarization models are supplied with DLED illumination - very similar light spectrum to the halogen illumination - and an eyepiece with crosshairs for centering

DIGITAL MODELS

MODELS	Mono	Bino	7" LCD*	12" Tablet	4/10/40x SMP objectives	Semi plan S60x objective	Semi plan S100x oil objective	Integrated X-Y stage	1 W Dual color LED	1 W Dual color NeoLED™
EBB-4205	•				•				•	
EBB-4225	•				•			•	•	
EBB-4245	•				•	•		•	•	
EBB-4255	•				•		•	•	•	
EBB-4267		•			•		•	•		•
EBB-4269		•			•			•		•
EBB-4200-LCD			•		•				•	
EBB-4220-LCD			•		•			•	•	
EBB-4267-T		•		•	•		•	•		•
EBB-4269-T		•		•	•	•		•		•

** LCD versions do not run on batteries*

DIGITAL MODELS

CAMERA

- All the BioBlue digital microscopes are equipped with a 5.0 MP 1/2.8" CMOS USB-2 camera
- Maximum resolution 2560 x 1920, 24 bits color depth, upto 30 frames per second*
- Supplied 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 10 and higher, both 32 and 64 bits configurations
- MacOS 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*
- Image resolution upto 1844 x 1080 in JPEG format
- Video resolution 1280 x 720 AVI format
- The screen allows live viewing and saving images and videos directly to micro SD card
- Basic measurement function (line) with calibration. Calibration slide available as option
- The LCD screen can only be operated as a stand alone and cannot function cordlessly
- Warranty for the screen is two years

** Frame rates were determined at optimal conditions*

MODELS WITH TABLET AND 5 MP CAMERA

- The 5.0 MP CMOS camera ensures excellent color reproduction
- It is connected to a Windows tablet PC with vivid color graphic display for enabling visualisation of microscopic samples
- Operates with ImageFocus Plus image analysis software
- A 2-in-1 solution, as it can be disconnected and used as a real Windows tablet
- Responsive and smooth control, due to its large Windows based touch screen of 12"

SPECIFICATIONS

Software and camera as above (5 MP + ImageFocus Plus)

Processor	Quad Core max 3.3 GHz HD graphics processor
Screen	12 inch IPS 2160*1440 / 3:2
Memory	12 GB
Storage	512 GB Flash HDD, micro SD/SDHC slot for cards up to 64 GB
Webcam	2 MP front and 5MP rear camera
Connectivity	Micro USB 2.0, Micro HDMI, USB-C, WiFi 6 and Bluetooth 4.0
Audio	Stereo with 3.5 mm audio jack, internal microphone and speaker
Battery	Lithium, 38Wh, 5000mA
Weight	0.8 KG (tablet) 4.8 kg (complete)
System	Windows 11
Software	ImageFocus Plus



● *EBB-4225*



● *EBB-4220-LCD*



● *EBB-4267-T*

ACCESSORIES AND SPARE PARTS

EYEPIECES

EAE-5571 Wide field eyepiece WF 5x/18 mm
EAE-5572 Wide field eyepiece WF10x/18 mm
EAE-5572-E Wide field eyepiece WF 10x/20 mm for BB EVO
EAE-5573 Wide field eyepiece WF15x/12 mm
EAE-5573-E Wide field eyepiece WF 15x/12 mm for BB EVO
EAE-5574 Wide field micrometer eyepiece 10mm/100
EAE-5581 Wide field eyepiece WF 10x/18 mm with pointer
EAE-5581-E Wide field eyepiece WF 10x/20 mm with pointer for BB EVO
EAE-5582 Wide field eyepiece WF 20x/11.5 mm
EAE-5582-E Wide field eyepiece WF 20x/12.5 mm for BB EVO
EAE-5365 Eyecup for 28 mm eyepieces
EAE-5365-E Pair of eyecups for eyepieces for BB EVO

OBJECTIVES

Semi Plan SMP, 45 mm parfocal

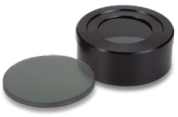
EAE-5591 4x/0.10 SMP objective. WD 37.5 mm
EAE-5593 10x/0.25 SMP objective. WD 6.5 mm
EAE-5594 20x/0.40 SMP objective. WD 1.2 mm
EAE-5597 S40x/0.65 SMP objective. WD 0.7 mm
EAE-5599 S60x/0.75 SMP objective. WD 0.2 mm
EAE-5601 S100x/1.25 SMP oil immersion objective. WD 0.2 mm

WD = Working distance

POLARIZATION ATTACHMENTS

Not suitable for the BioBlue EVO models

EAE-5151 Simple polarization attachment. Polarizer mounted over eyepiece and analyzer 32 mm diameter in filter holder
EAE-5152 Polarization attachment. Analyzer mounted over eyepiece and small (75 x 50 mm) 360° rotatable stage with built-in polarizer to be mounted on X-Y stage
EAE-5155 Polarization attachment with analyzer and slider, rotatable stage for X-Y mechanical stage and polarizer on lamp house
EAE-5155-P Polarization attachment with analyzer and slider, rotatable stage for stage with clamps and polarizer on lamp house
EAE-5156 Polarization attachment with analyzer and slider, and polarizer on lamp house
EAE-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
EAE-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



EAE-5151



EAE-5152



EAE-5156



EAE-5155-P



EAE-5158-P



BioBlue with polarization kit

MISCELLANEOUS

EAE-1110 Stage micrometer 1 mm/ 100 parts
EAE-5511 Discussion head without eyepieces. Delivered with two eyepieces when the head is ordered mounted on microscope
EAE-5202 Blue filter, diameter 32 mm
EAE-5203 Yellow filter, diameter 32 mm
EAE-5204 Neutral grey filter, diameter 32 mm
EAE-5205 Green filter, diameter 32 mm
EAE-5207 Blue filter plexiglass, diameter 32 mm
EBB-4300 Aluminium case for BioBlue microscopes
EAE-9918 Nylon microscope bag (25 x 39 x 19 cm)
EAE-9912 Euromex dust cover medium (35 x 39 cm)
EBB-9602 Analyzer in slider
EAE-9981-DL 1 W Dual Color LED replacement unit*
EAE-9991-DL 1 W Dual Color NeoLED™ replacement unit *
EAE-9975-DL External 100-240 Vac (50/60 Hz)/ 5 Vdc USB-C multiplug adapter*

** Not compatible with BioBlue revision 1 models with single color LED's*



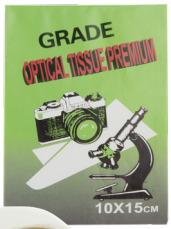
EBB-9602



EPB-5165



EPB-5155



EPB-5245



EPB-5275



EPB-5255

CAMERA ACCESSORIES

EAE-5130 Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Need T2 adapter
EAE-5025 T2 adapter for Nikon D digital SLR cameras
EAE-5040 T2 adapter for Canon EOS digital SLR cameras

Other T2 adapters on request

DISPOSABLES

EPB-5155 Microscope slides 76 x 26 mm, ground edges, 50 pieces
EPB-5157-W Microscope slides 76 x 26 mm, ground edges. White frosted side, 50 pieces per pack
EPB-5157-B Microscope slides 76 x 26 mm, ground edges. Blue frosted side, 50 pieces per pack
EPB-5160 Microscope slides 76 x 26 mm with cavity, ground edges. 10 pieces per pack
EPB-5165 Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
EPB-5168 Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
EPB-5245 Lens cleaning paper, 100 sheets per pack
EPB-5255 Immersion oil, n = 1.515 (25 ml)
EPB-5274 Isopropyl alcohol 99% (200 ml)
EPB-5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs
EPB.5276 Microscope maintenance and servicing kit, 16 pieces: cleaning brush, screwdriver set of 6, air blower, 3 Allen keys, 1.5, 2, 2.5 mm, lens cleaning fluid 20 ml, cleaning cloth 140 x 140 mm, 100 lens tissue sheets, tube of maintenance grease, 10 ml bottle of oil, packed in a nice toolbox



EAE-9912



EAE-9918



EBB-4300

www.euromex.com