

BIOLOGICAL MICROSCOPES

BlueLine
MADE IN HOLLAND

NeoLED™
euromex optical technology

FEATURED

BioBlue

The modern microscopes of the BioBlue series are especially developed for educational purposes with primary focus on ergonomics and today's quality standards. These microscopes are supplied with secured eyepieces and adjustable rack stop to prevent damage to sample and objectives

MONOCULAR MODEL BB.4200	
Dimensions	Weight
(h) 340 x (w) 155 x (d) 230 mm	3.0 kg

BINOCULAR MODEL BB.4260	
Dimensions	Weight
(h) 360 x (w) 155 x (d) 230 mm	4.0 kg

POLARIZATION MODEL BB.4200-P	
Dimensions	Weight
(h) 360 x (w) 155 x (d) 230 mm	4.4 kg



HIGHLIGHTS

- WF 10x/18mm eyepiece(s)
- Models with integrated 3.2 MP CMOS camera
- Models for polarization applications
- Reversed nosepiece for four 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
- Ergonomically designed stand
- Warranty 10 years

SPECIFICATIONS

EYEPIECE(S)

Wide field WF 10x/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. The BioBlue microscope can also be supplied with a discussion head. The trinocular head has a fixed light path beamsplitter (50:50) and generates an erect image. Models with an integrated USB-2 camera are supplied with a 3.2 MP 1/2" CMOS sensor with 2048 x 1536 pixel resolution

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

FOCUSING

Coaxial coarse and fine adjustments with 200 graduations. Precision 2 μ m per graduation, 0.4 mm per rotation

The ergonomic carrying grip enables easy transportation



SPECIFICATIONS

Total travel range is 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 1 W 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 images and videos, this software also allows measurements on still and live images and annotations on captured images. Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations

PACKAGE CONTENT

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



Monocular head



Binocular head



Trinocular head



Digital monocular head



Digital binocular head



Discussion head



● BB.4200



BB.4300 ●



Check out the product video on YouTube and learn more about the BlueLine. YouTube channel: **Euromex Optics Group B.V.**

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		•				•				•
BB.4220-P-LED	•							•		•
BB.4240-P-LED	•				•			•		•
BB.4260-P-LED		•				•		•		•

⁽¹⁾ Polarization models supplied with 20 W halogen illumination except BB.4xx1-P-LED versions, which are supplied with LED's with a very similar light spectrum to the halogen illumination and supplied with a cross hair eyepiece for centering

ACCESSORIES AND SPARE PARTS

- AE.5571** Wide field eyepiece WF 5x/18 mm
- AE.5572** Wide field eyepieces WF 10x/18 mm
- AE.5573** Wide field eyepiece WF 15x/12 mm
- AE.5574** Wide field micrometer eyepiece 10 mm/100
- AE.5581** Wide field eyepiece WF 10x/18 mm with pointer
- AE.5582** Wide field eyepiece WF 20x/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. WD 37.5 mm
- AE.5593** Semi plan objective 10x/0.25. WD 6.54 mm
- AE.5594** Semi plan objective 20x/0.40. WD 1.2 mm
- AE.5597** Semi plan objective S40x/0.65. WD 0.68 mm
- AE.5599** Semi plan objective S60x/0.75. WD 0.2 mm
- AE.5601** Semi plan objective S100x/1.25 oil immersion. WD 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

● BioBlue microscope with polarization kit



- 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** Aluminum case
- AE.9918** Nylon microscope bag (25 x 39 x 19 cm)

- BB.9302** 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.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** 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

- AE.5153** Polarization attachment. Analyzer mounted over eyepiece and small (100 x 65 mm) 360° rotatable stage with built-in polarizer to be mounted on plain stage

- AE.5154** Polarizer in mount, to place over eyepiece

- AE.5156** Simple polarization kit with analyzer in slider and polarization filter to be mounted on lamphouse

- AE.5155** Polarization kit with analyzer in slider and small rotatable (75 x 50 mm) stage with two clamps to be mounted on X-Y stage. Polarization filter to be mounted on lamphouse

- AE.5155-P** Polarization kit with analyzer in slider and small rotatable (100 x 65 mm) stage with two clamps to be mounted on plain stage. Polarization filter to be mounted on lamphouse

- 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

