

# BioBlue



**Brand:** Euromex  
**Product Code:** AC002EM  
**Availability:** 2 - 3 Days  
**Call for Price:** +2 01000 6546

## Short Description

Extensive experience of Euromex optical engineers has contributed to the development and implementation of the BioBlue series

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Extensive experience of Euromex optical engineers has contributed to the development and implementation of the BioBlue series with the finest optical components and guaranteed performance, which means clear bright images at every magnification. The modern microscopes of the BioBlue series are especially developed for educational purposes with primary focus on ergonomic and today's quality standards

The DIN WF 10x/18 eyepieces and the semi plan achromatic corrected 45 mm DIN objectives of the BioBlue models generate a crisp high-resolution image. When changing magnification the image remains perfectly in focus and centered. The 120 x 120 mm plain stage and 130 x 130 mm stage with double layered 70 x 28 mm X-Y mechanical stage enable a 2  $\mu$ m precision positioning of the specimen



*Icons are used to indicate the several functions of a microscope.*

[Click](#) and find more details about the meaning of each icon

## Models

### BioBlue

MODEL	Monocular	Binocular	Trinocular	Digital	4/10/S	S60x	S100x	Mechanical	LED	NeoLED	Polarization
LS 40					Objective	Objective	Objective	Y stage			(1)
BB.42 00					•				•		
BB.42 20					•				•	•	
BB.42 40					•	•			•	•	
BB.42 50					•		•		•	•	
BB.42 60		•			•		•		•		•
BB.42 63		•			•	•			•		•
BB.42 43			•		•	•			•		•
BB.42			•		•		•		•		•

53							
BB.42 •		•	•			•	
05							
BB.42 •		•	•		•	•	
25							
BB.42 •		•	•	•		•	•
45							
BB.42 •		•	•		•	•	•
55							
BB.42	•	•	•		•	•	•
67							
BB.42	•	•	•	•		•	•
69							
BB.42 •			•				•
20?P							
BB.42 •			•	•			•
40?P							
BB.42	•		•		•		•
60?P							
BB.42 •			•			•	•
20?P?							
LED							
BB.42 •			•	•		•	•
40?P?							
LED							
BB.42	•		•		•	•	•
60?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*

**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  $\pm 5$  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*

*(Photo: AE.5591, AE.5593, AE.5594, AE.5597, AE.5599, AE.5601)*



## FOCUSING

Coaxial coarse and fine adjustments with 200 graduations. Precision 2  $\mu$ 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

*(Photo left: Rotatable stage for X-Y mechanical stage and polarizer on lamp house (AE.5155))*

*(Photo right: Optional polarization attachment with analyzer and slider)*

## **POLARIZATION EQUIPMENT**

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

## **POLARIZATION MODELS**

Polarisation microscopes are often used in petrology and geology to identify rocks and minerals in thin sections.

It is a standard optical microscope equipped with a circular 360° rotating stage, strain free objectives, a polariser to generate polarised light and a second polariser - called the "analyzer" in the light path between objective and eyepiece

## **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 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

## **PACKAGE CONTENT**

Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil for models with S100x objective. All packed in a polystyrene box

Models for polarization with a halogen illumination are supplied with a blue filter, models with LED illumination are supplied with a white filter, all models are supplied with a cross hair eyepiece for centration

## Product Gallery

