

# EcoBlue

## HIGHLIGHTS

- Monocular, binocular and trinocular models with WF10x/18 mm eyepiece(s)
- Models with integrated 5.0 MP CMOS camera
- Models for polarization applications
- Provided with APL (Anti-bacterial Protection Layer)
- Revolving nosepiece with four achromatic objectives
- Models with integrated mechanical stage available
- Coaxial coarse and fine adjustments with rack stop
- Height adjustable Abbe condenser with iris diaphragm and filter holder
- 1 W LED or NeoLED™ illumination
- Models without X-Y mechanical stage have internal 100-240 Vac power supply. No batteries
- Models with X-Y mechanical stage have rechargeable AA batteries and external 100-240 Vac mains/charger adapter
- Ergonomic stand
- Warranty 5 years



EC.1001



## TECHNICAL SPECIFICATIONS

### EYEPIECE(S)

- Wide field WF 10x/18 mm eyepiece with pointer
- 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
- The interpupillary distance is adjustable between 48 and 75 mm
- All binocular and trinocular models have a diopter  $\pm 5$  diopter adjustment on left tube
- All heads are 360° rotatable
- Models with an integrated USB-2 camera are supplied with a 5.0 MP 1/2" CMOS sensor with 2560 x 1920 pixels resolution
- The EcoBlue can also be supplied with a discussion head

### NOSEPIECE

- Revolving nosepiece for four objectives on ball bearings
- Models for polarization are supplied with swing-out analyzer

### OBJECTIVES - 45 MM PARFOCAL

- Achromatic 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 objectives
- The S40x, S60x and S100x oil immersion objectives are spring loaded
- The HLED-S models for polarization are equipped with semi-plan objectives

All optics are anti-fungus treated and anti-reflection coated for maximum light throughput

<b>MONOCULAR MODEL EC.1001</b>	355 (h) x 170 (w) x 220 (d)   2.48 kg
<b>BINOCULAR MODEL EC.1152</b>	360 (h) x 170 (w) x 214 (d)   2.95 kg
<b>POLARIZATION MODEL EC.1001-P-HLED</b>	360 (h) x 170 (w) x 214 (h)   3.35 kg

### FOCUSING

- Coaxial coarse and fine adjustments, 200 graduations, 12.5  $\mu$ m per graduation, 2.5 mm per rotation, total travel approximately 15 mm
- Supplied with an adjustable rack stop to prevent damage to sample and objectives

### STAGES

- Plain 123 x 119 mm stage with two non-removable object clamps (optional EC.9500 attachable 51 x 26 mm X-Y mechanical stage available)
- Plain 123 x 128 mm stage with integrated 70 x 27 mm X-Y mechanical stage
- The models for polarization are supplied with 129 mm circular stage, 360° rotatable and 2 object clamps

### CONDENSER

- Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder
- The models for polarization have a rack & pinion adjustment, all other models carry a helicoidal adjustment

### ILLUMINATION

- Monocular models are supplied with an adjustable 1 W LED illumination with integrated power supply
- Binocular and trinocular models are supplied with an adjustable 1 W NeoLED™ illumination system for increased light output
- Models EC.1151, EC.1152, EC.1153, EC.1652 and EC.1653 are supplied with rechargeable batteries and an external 100-240 V battery charger/mains adapter

## DIGITAL MODELS

### CAMERA

- The models for polarization are supplied with H-LED illumination for correct color rendering (very similar to the halogen light spectrum). With an integrated 100-240 V power supply, no batteries
- All the EcoBlue digital microscopes are equipped with a 5.0 MP CMOS USB-2 camera
- Maximum resolution 2560 x 1920, 24 bits color depth, up to 30 frames per second
- Delivered with the ImageFocus Plus software, USB-2 cable and a micrometer 1mm/100 slide
- Warranty for the camera is 2 years

### 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

### PACKAGING

- Supplied with power cord or mains adapter-charger, white filter, dust cover, spare fuse, user manual and 5 ml immersion oil for models with an S100x objective
- The EcoBlue models with external mains adapter and X-Y stage (EC.1x5x) are supplied with three rechargeable AA batteries
- All packed in a polystyrene box

### SOFTWARE

- Delivered with ImageFocus Plus for capturing of images and videos
- The capture and analysis ImageFocus Plus software allows to save images in .jpg, .tif, .bmp or .dicom formats and videos in .avi format
- Images can be annotated and measurements can be performed on live or captured images
- Compatible with Windows 10 and higher, both 32 and 64 bits configurations
- A Mac OS version is also available
- Free updates can be downloaded from our website



### 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



## STANDARD MODELS

MODELS	Mono	Bino	Trino	4/10/40x objectives	S60x objective	S100x objective	Mechanical X-Y stage <sup>(1)</sup>	LED	NeoLED™	Batteries <sup>(2)</sup>	Polarization <sup>(3)</sup>
EC.1001	•			•				•			
EC.1101	•			•		•		•			
EC.1601	•			•	•			•			
EC.1051	•			•			•	•		•	
EC.1151	•			•		•	•	•		•	
EC.1651	•			•	•		•	•		•	
EC.1152		•		•		•	•		•	•	
EC.1652		•		•	•		•		•	•	
EC.1053			•	•			•		•	•	
EC.1153			•	•		•	•		•	•	
EC.1001-P -HLED-S	•			•				•			• <sup>(4)</sup>
EC.1601-P -HLED-S	•			•	•			•			• <sup>(4)</sup>
EC.1101-P -HLED-S	•			•		•		•			• <sup>(4)</sup>
EC.1002-P -HLED-S		•		•					•		• <sup>(4)</sup>
EC.1602-P -HLED-S		•		•	•				•		• <sup>(4)</sup>
EC.1102-P -HLED-S		•		•		•			•		• <sup>(4)</sup>
EC.1003-P -HLED-S			•	•					•		• <sup>(4)</sup>
EC.1603-P -HLED-S			•	•	•				•		• <sup>(4)</sup>
EC.1103-P -HLED-S			•	•		•			•		• <sup>(4)</sup>

<sup>(1)</sup> Integrated mechanical stage with 70 x 27 mm X-Y travel range

<sup>(2)</sup> With an external 100-240 V battery charger/mains adapter

<sup>(3)</sup> Polarization models are supplied with a 129 mm round stage and semi-plan objectives and H-LED illumination (similar light spectrum as halogen)

<sup>(4)</sup> Model with semi-plan objectives

## DIGITAL MODELS

MODELS	Monocular	Binocular	4x/10x/S40x objective	S60x objective	S100x objective	Mechanical X-Y stage *	LED	NeoLED™
EC.1005	•		•				•	
EC.1105	•		•		•		•	
EC.1607		•	•	•				•
EC.1055	•		•			•	•	
EC.1155	•		•		•	•	•	
EC.1157		•	•		•	•		•
EC.1657		•	•	•		•		•

\* Integrated mechanical stage with 70 x 27 mm X-Y travel range

## ACCESSORIES AND SPARE PARTS

### EYEPIECES

<b>AE.5571</b>	Wide field eyepiece WF 5x/18 mm
<b>EC.6010</b>	HWF 10x/18 mm eyepiece
<b>EC.6010-M</b>	Wide field HWF 10x/18 mm eyepiece with micrometer
<b>EC.6015</b>	HWF 15x/12 mm eyepiece
<b>EC.6110</b>	HWF 10x/18 mm eyepiece with micrometer
<b>EC.6099</b>	Pair of eyecups

### OBJECTIVES - 45 MM PARFOCAL

<b>EC.7004</b>	Achromatic 4x/0.10 objective. Working distance 37.5 mm
<b>EC.7010</b>	Achromatic 10x/0.25 objective. Working distance 6.8 mm
<b>EC.7020</b>	Achromatic 20x/0.40 objective. Working distance 2.0 mm
<b>EC.7040</b>	Achromatic S40x/0.65 objective. Working distance 0.6 mm
<b>EC.7060</b>	Achromatic S60x/0.85 objective. Working distance 0.185 mm
<b>EC.7000</b>	Achromatic S100x/1.25 oil immersion objective. Working distance 0.195 mm

## POLARIZATION ATTACHMENTS

- 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. Analyzer 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

## CAMERA ACCESSORIES

- 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 camera
- Other T2 adapters on request*

## MISCELLANEOUS

- EC.9500** Attachable mechanical X-Y stage, translation range 51 x 26 mm, with double Vernier and separate horizontal adjustments knobs
- EC.9710** Frosted white filter
- EC.9981** 1 W LED replacement unit
- EC.9991** 1 W NeoLED™ replacement unit
- EC.9994** 1 W H-LED replacement unit
- EC.9975** External mains/charger adapter  
100-240 Vac/5 Vdc (50/60 Hz)
- AE.5511** Discussion head without eyepieces. Delivered with two eyepieces when the head is ordered mounted on microscope
- 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
- SL.1379** Spare halogen 20 W 12 V bulb  
for polarization models
- AE.9918** Nylon microscope bag (25 x 39 x 19 cm)
- AE.9912** Euromex dust cover medium (35 x 39 cm)



AE.9918 ●

AE.9912 ●



## DISPOSABLES

- PB.5157-W** Microscope slides 76 x 26 mm, ground edges.  
White frosted side, 50 pieces per pack
- PB.5157-B** Microscope slides 76 x 26 mm, ground edges.  
Blue frosted side, 50 pieces per pack
- PB.5155** Microscope slides 76 x 26 mm, ground edges, 50 pieces
- PB.5160** Microscope slides 76 x 26 mm with cavity, grinded edges. 10 pieces per pack
- 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
- AE.5227** AE.5227 Glass fuses 1 A 250 V, 10 pieces
- PB.5245** Lens cleaning paper, 100 sheets per pack
- PB.5255** Immersion oil, n = 1.515 (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
- PB.5276** Microscope maintenance and servicing kit, 16pcs: cleaning brush, 6 pcs screwdriver set, air blower, 3 pcs Allen key, 1.5, 2, 2.5 mm, lens cleaning fluid 20 ml, cleaning cloth 140 x 140 mm, 100 pcs Lens tissue sheets, tube of maintenance grease, 10 ml bottle of oil, packed in a nice toolbox



EC.1603-P-HLED-S ●

