

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
- 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 illumination with integrated power supply
- 1 W NeoLED™ illumination with rechargeable 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 ± 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

- Achromatic 4x/0.10, 10x/0.25 and S40x/0.65 objectives
 - Models EC.1151, EC.1152 and EC.1153 also have an S100x oil immersion objective
 - 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*

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

FOCUSING

- Coaxial coarse and fine adjustments, 200 graduations, 12.5 μ 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

DIGITAL MODELS

ILLUMINATION

- Monocular models are supplied with a 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
- The models for polarization are supplied with H-LED illumination for correct color rendering (very similar to the halogen light spectrum) and an integrated 100-240 V power supply. However 20 W halogen illumination is also available on special request

PACKAGING

- Supplied with power cord or mains adapter-charger, dust cover, spare fuse, user manual and 5 ml immersion oil for models with an S100x objective
- Models for polarization with a halogen illumination are supplied with blue filter, models with LED illumination are supplied with white filter
- All packed in a polystyrene box

CAMERA

- 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

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 7, 8 and 10, both 32 and 64 bits configurations
- A Mac OS version is also available
- Free updates can be downloaded from our website



● EC.1005



● EC.1057

STANDARD MODELS

MODELS	Monocular	Binocular	Trinocular	S60x objective	S100x objective	Mechanical X-Y stage ⁽¹⁾	LED	NeoLED™	Batteries ⁽²⁾	Polarization ⁽³⁾
EC.1001	•						•			
EC.1101	•				•		•			
EC.1601	•			•			•			
EC.1051	•					•	•		•	
EC.1151	•				•	•	•		•	
EC.1152		•			•	•		•	•	
EC.1652		•		•		•		•	•	
EC.1153			•		•	•		•	•	
EC.1653			•	•		•		•	•	
EC.1001-P -HLED	•						•			•
EC.1601-P -HLED	•			•			•			•
EC.1002-P -HLED		•					•			•
EC.1602-P -HLED		•		•			•			•
EC.1003-P -HLED			•				•			•
EC.1603-P -HLED			•	•			•			•

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

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

(3) Polarization models can also be supplied with S60x or S100x objectives;

replace second digit of model number with resp. 6 or 1, e.g. EC.1602-P-HLED, EC.1103-P-HLED, etc

DIGITAL MODELS

MODELS	Monocular	Binocular	4x/10x/S40x objective	S60x objective	S100x objective	Mechanical X-Y stage *	LED
EC.1005	•		•				•
EC.1105	•		•		•		•
EC.1605	•		•	•			•
EC.1007		•	•				•
EC.1107		•	•		•		•
EC.1607		•	•	•			•
EC.1055	•		•			•	•
EC.1155	•		•		•	•	•
EC.1655	•		•	•		•	•
EC.1057		•	•			•	•
EC.1157		•	•		•	•	•
EC.1657		•	•	•		•	•

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

ACCESSORIES AND SPARE PARTS

EYEPIECES

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

OBJECTIVES

EC.7004	Achromatic 4x/0.10 objective. Working distance 37.5 mm
EC.7010	Achromatic 10x/0.25 objective. Working distance 6.8 mm
EC.7020	Achromatic 20x/0.40 objective. Working distance 2.0 mm
EC.7040	Achromatic 540x/0.65 objective. Working distance 0.6 mm
EC.7060	Achromatic 560x/0.85 objective. Working distance 0.185 mm
EC.7000	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
- 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)

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.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
- 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 ●