

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)
- Reversed revolving nosepiece for four achromatic objectives
- Models with integrated mechanical stage available
- Coaxial coarse and fine adjustments with rack stop
- Height adjustable color-coded Abbe condenser with iris diaphragm and filter holder
- Dual illumination system: white & halogen colored (Neo)LED™
- Cordless operation with rechargeable AA batteries
- Universal USB-C 5 Vdc charging port
- Multiplug 100-240 Vac / 5 Vdc adapter
- Ergonomic stand
- Warranty 5 years



● EC.1053



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
- The trinocular head has a fixed lightpath beam splitter (50:50) and generates an erect image.
- All heads are 360° rotatable
- Models with an integrated USB-2 camera are supplied with a 5.0 MP 1/2.8" CMOS sensor with 2560 x 1920 pixels resolution
- The EcoBlue can also be supplied with a discussion head

NOSEPIECE

- Reversed 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 DLED-S models for polarization are equipped with semi-plan objectives

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

MONOCULAR MODEL EC.1001

BINOCULAR MODEL EC.1152

POLARIZATION MODEL EC.1001-P-DLED

355 (h) x 170 (w) x 220 (d) | 2.48 kg

360 (h) x 170 (w) x 214 (d) | 2.95 kg

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 color-coded 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

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

DIGITAL MODELS

CAMERA

- All the EcoBlue 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, 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

*Frame rates were determined at optimal conditions

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

All models are supplied with three rechargeable AA batteries for cordless operation. Equipped with a universal USB-C 5 Vdc charging port and 100-240 Vac / 5 Vdc multiplug adapter

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

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



PACKAGING

- Supplied with three rechargeable AA batteries, a 100-240 Vac / 5 Vdc USB-C multiplug adapter, white filter, dust cover, spare fuse, user manual.
- A 5 ml immersion oil for models with an S100x oil objective
- All packed in a polystyrene box



● EC.1005



● EC.1157

STANDARD MODELS

MODELS	Mono	Bino	Trino	4/10/40x objectives	S60x objective	S100x objective	Mechanical X-Y stage*	Dual LED	Dual NeoLED™
EC.1001	•			•				•	
EC.1101	•			•		•		•	
EC.1601	•			•	•			•	
EC.1051	•			•			•	•	
EC.1151	•			•		•	•	•	
EC.1651	•			•	•		•	•	
EC.1152		•		•		•	•		•
EC.1652		•		•	•		•		•
EC.1053			•	•			•		•
EC.1153			•	•		•	•		•

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

POLARIZATION MODELS

MODELS	Mono	Bino	Trino	SMP Semi plan 4/10/40x objectives	SMP Semi plan S60x objective	SMP Semi plan S100x objective	Round stage for polarization*	Dual LED	Dual NeoLED™
EC.1001-P-DLED-S	•			•			•	•	
EC.1601-P-DLED-S	•			•	•		•	•	
EC.1101-P-DLED-S	•			•		•	•	•	
EC.1002-P-DLED-S		•		•			•		•
EC.1602-P-DLED-S		•		•	•		•		•
EC.1102-P-DLED-S		•		•		•	•		•
EC.1003-P-DLED-S			•	•			•		•
EC.1603-P-DLED-S			•	•	•		•		•
EC.1103-P-DLED-S			•	•		•	•		•

* Polarization models are supplied with a 129 mm round stage and DLED illumination (similar light spectrum as halogen)

DIGITAL MODELS

MODELS	Monocular	Binocular	4x/10x/S40x objective	S60x objective	S100x objective	Mechanical X-Y stage*	Dual LED	Dual 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

Ø 23.2 mm tube

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

OBJECTIVES

Achromatic, 45 mm parfocal

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 S40x/0.65 objective. Working distance 0.6 mm
EC.7060	Achromatic S60x/0.85 objective. Working distance 0.185 mm
EC.7000	Achromatic S100x/1.25 oil immersion objective. Working distance 0.195 mm

POLARIZATION ATTACHMENT

AE.5152 Simple polarization attachment. Analyzer mounted over eyepiece and analyzer 32 mm diameter in filter holder

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-DL 1 W Dual Color LED replacement unit*

EC.9991-DL 1 W Dual Color NeoLED™ replacement unit *

EC.9975-DL External 100-240 Vac (50/60 Hz)/ 5 Vdc USB-C multiplug adapter*

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

AE.9918 Nylon microscope bag (25 x 39 x 19 cm)

AE.9912 Euromex dust cover medium (35 x 39 cm)

** Not compatible with EcoBlue revision 1 models*

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

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



● AE.9918

● AE.9912



● EC.1003-P-DLED-S



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