

EcoBlue

HIGHLIGHTS

- Monocular, binocular and trinocular models with WF10x/18 mm eyepiece(s)
- Models with integrated 3.2 MP CMOS camera
- Models for polarization applications
- Revolving nosepiece with 4 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 designed 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 3.2 MP 1/2" CMOS sensor with 2048 x 1536 pixels resolution
- The EcoBlue can also be supplied with a discussion head

NOSEPIECE

- Revolving nosepiece for 4 reversed 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

FOCUSING

- Coaxial coarse and fine adjustments, 200 graduations, 12.5 μm 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
- The coarse adjustment are equipped with friction control

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 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 standard supplied with a 20 W halogen illumination for correct color rendering and an integrated 100-240 V 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

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

DIGITAL MODELS

CAMERA

- All the EcoBlue digital microscopes are equipped with a 3.2 MP CMOS USB-2 camera
- Maximum resolution 2048 x 1536, 24 bits color depth, up to 15 frames per second
- Delivered with the ImageFocus 4 software, USB-2 cable and a micrometer 1mm/100 slide
- Warranty for the camera is 2 years

SOFTWARE

- The capture and analysis ImageFocus 4 software allows to save images in .jpg, .tif or .bmp formats as
- Delivered with ImageFocus 4 for capturing of images and videos
- This software also allows a full range of analysis like measurements on still and live images and annotations on captured images
- Save images in .jpg, .tif or .bmp formats, save videos in .avi format
- Images can be annotated and measurements can be performed on live or captured images
- Compatible with Windows XP, Vista, 7, 8 and 10, both 32 and 64 bits configurations.
- A Mac OS Light version is also available for capturing images
- Updates can be downloaded on our website www.euromex.com



EC.2001-POL



EC.1152



EC.1005

MODELS

	Monocular	Binocular	Trinocular	Digital	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.1005	•			•				•			
EC.1105	•			•		•		•			
EC.1605	•			•	•			•			
EC.2001-P	•										•
EC.2101-P	•					•					•
EC.2601-P	•				•						•

(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 supplied with 20 W halogen illumination

ACCESSORIES AND SPARE PARTS

EC.6010 HWF 10x/18 mm eyepiece	Analyzer mounted over eyepiece and analyzer 32 mm diameter in filter holder
EC.6010-M Wide field HWF 10x/18 mm eyepiece with micrometer	
EC.6015 HWF 15x/12 mm eyepiece	AE.5153 Simple polarization attachment.
EC.6110 HWF 10x/18 mm eyepiece with micrometer	Analyzer mounted over eyepiece and 360° rotatable polarizer on table
EC.6099 Pair of eyecups	
EC.7004 Achromatic 4x/0.10 objective. Working distance 37.5 mm	EC.9981 1 W LED replacement unit
EC.7010 Achromatic 10x/0.25 objective. Working distance 6.8 mm	EC.9991 1 W NeoLED™ replacement unit
EC.7020 Achromatic 20x/0.40 objective. Working distance 2.0 mm	SL.1379 Spare halogen 20 W 12 V bulb for polarization models
EC.7040 Achromatic S40x/0.65 objective. Working distance 0.6 mm	EC.9975 External mains/charger adapter 100-240 Vac/5 Vdc (50/60 Hz)
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	AE.5130 Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Need T2 adapter
AE.5511 Discussion head	AE.5025 T2 adapter for Nikon D digital SLR cameras
EC.9500 Attachable mechanical X-Y stage, translation range 51 x 26 mm, with double Vernier and separate horizontal adjustments knobs	AE.5040 T2 adapter for Canon EOS digital SLR cameras <i>Other T2 adapters on request</i>
EC.9710 Frosted white filter	PB.5155 Microscope slides 76 x 26 mm, ground edges, 50 pieces
AE.5150 Simple polarization attachment. Polarizer 18 mm diameter mounted in eyepiece, analyzer 32 mm diameter placed in filter holder	PB.5165 Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
AE.5152 Simple polarization attachment.	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