

## 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  $\pm 5$  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  $\mu$ 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
- 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](http://www.euromex.com)



EC.2001-POL



EC.1152



EC.1005

## MODELS

	Monocular	Binocular	Trinocular	Digital	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.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

<b>EC.6010</b>	HWF 10x/18 mm eyepiece		Analyzer mounted over eyepiece and analyzer 32 mm diameter in filter holder
<b>EC.6010-M</b>	Wide field HWF 10x/18 mm eyepiece with micrometer		
<b>EC.6015</b>	HWF 15x/12 mm eyepiece	<b>AE.5153</b>	Simple polarization attachment. Analyzer mounted over eyepiece and 360° rotatable polarizer on table
<b>EC.6110</b>	HWF 10x/18 mm eyepiece with micrometer		
<b>EC.6099</b>	Pair of eyecups	<b>EC.9981</b>	1 W LED replacement unit
<b>EC.7004</b>	Achromatic 4x/0.10 objective. Working distance 37.5 mm	<b>EC.9991</b>	1 W NeoLED™ replacement unit
<b>EC.7010</b>	Achromatic 10x/0.25 objective. Working distance 6.8 mm	<b>SL.1379</b>	Spare halogen 20 W 12 V bulb for polarization models
<b>EC.7020</b>	Achromatic 20x/0.40 objective. Working distance 2.0 mm	<b>EC.9975</b>	External mains/charger adapter 100-240 Vac/5 Vdc (50/60 Hz)
<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>AE.5130</b>	Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Need T2 adapter
<b>EC.7000</b>	Achromatic S100x/1.25 oil immersion objective. Working distance 0.195 mm	<b>AE.5025</b>	T2 adapter for Nikon D digital SLR cameras
<b>AE.5511</b>	Discussion head	<b>AE.5040</b>	T2 adapter for Canon EOS digital SLR cameras <i>Other T2 adapters on request</i>
<b>EC.9500</b>	Attachable mechanical X-Y stage, translation range 51 x 26 mm, with double Vernier and separate horizontal adjustments knobs	<b>PB.5155</b>	Microscope slides 76 x 26 mm, ground edges, 50 pieces
<b>EC.9710</b>	Frosted white filter	<b>PB.5165</b>	Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
<b>AE.5150</b>	Simple polarization attachment. Polarizer 18 mm diameter mounted in eyepiece, analyzer 32 mm diameter placed in filter holder	<b>PB.5168</b>	Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
<b>AE.5152</b>	Simple polarization attachment.	<b>PB.5245</b>	Lens cleaning paper, 100 sheets per pack
		<b>PB.5255</b>	Immersion oil, n = 1.482 (25 ml)
		<b>PB.5274</b>	Isopropyl alcohol 99% (200 ml)
		<b>PB.5275</b>	Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs