

# MicroBlue



## HIGHLIGHTS

- Entry-level microscopes
- Monocular, binocular and trinocular models
- Digital and LCD models
- Revolving reversed nosepiece
- Integrated X-Y mechanical stage
- LED and NeoLED™ illumination
- Cordless operation
- Ergonomic carrying grip
- Five years warranty



● MB.1152

## TECHNICAL SPECIFICATIONS

### EYEPIECE(S)

- Wide field WF 10x/18 mm eyepiece(s)
- Secured and with pointer for monocular versions

### HEAD

- Monocular models with 45° inclined tubes
- Binocular models have 45° inclined tubes, adjustable interpupillary distance between 48 and 75 mm and a ± 5 diopter adjustment on left tube
- Trinocular models have 30° inclined tubes, interpupillary distance is adjustable between 48 and 75 mm and equipped with a ± 5 diopter adjustment on the left tube
- The trinocular head has a fixed light path beamsplitter (50:50) and generates an erect image
- Two digital heads are available:  
An integrated 1.3 MP 1/2.5" CMOS sensor USB 2.0 camera, 1272 x 952 pixels  
An integrated 5.0 MP 1/2" CMOS sensor USB 2.0 camera, 2560 x 1920 pixels
- LCD version with 5.6" LCD screen
- All heads are 360° rotatable and secured except for the LCD head, which is secured fixed

#### MONOCULAR MODEL MB.1001

298 (h) x 151 (w) x 202 mm (d) | 2.0 kg

#### MONOCULAR, MECHANICAL STAGE MB.1151

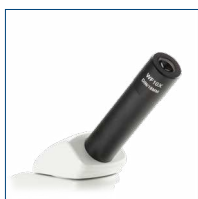
298 (h) x 151 (w) x 202 mm (d) | 2.2 kg

#### BINOCULAR MODEL, MECHANICAL STAGE MB.1152

298 (h) x 151 (w) x 202 mm (d) | 2.8 kg

### NOSEPIECE

Revolving nosepiece for 3 or 4 reversed objectives on ball bearings



Monocular head



Binocular head



Trinocular head



Digital monocular head



Digital LCD head



### OBJECTIVES

- Achromatic 4x/0.10, 10x/0.25 and S40x/0.65. Models with S60X or S100x oil immersion are also available
  - 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, 15 µm per graduation, 3 mm per rotation, total travel approximately 15 mm
- Supplied with an adjustable rack stop to prevent damage to sample and objectives
- The coarse adjustments are equipped with friction control

### STAGE

All models are supplied with 115 x 100 mm stage with integrated 55 x 20 mm X-Y mechanical stage, except for the basic model MB.1001 which is supplied with a 105 x 105 mm stage and two non-removable clamps

### CONDENSER

Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder, except for the MB.1001 model and MB.1001-LCD models which are equipped with a single N.A. 0.65 condenser with built-in iris diaphragm

### ILLUMINATION

- All monocular versions are supplied with an adjustable 1W LED illumination
- The binocular and trinocular versions are supplied with a replaceable 1 W NeoLED™ illumination system for increased light output
- All models have internal rechargeable batteries with an external 100-240 V battery charger/mains adapter

### PACKAGE CONTENT

- Supplied with mains adapter-charger, white filter, dust cover, user manual and for models with an S100x objective, 5 ml immersion oil
- Software, USB-2 cable and a micrometer 1mm/100 slide are included (for camera models)
- External powersupply for LCD screen
- All packed in a polystyrene box

## DIGITAL MODELS

### 1.3 MP CAMERA

- This model is equipped with a 1.3 MP CMOS USB-2 camera
- Maximum resolution 1272 x 952 , 24 bits color depth, up to 30 frames per second
- Delivered with ImageFocus 4 software
- Warranty for the camera is two years

### 4 SOFTWARE

- The ImageFocus 4 software allows to save images in .jpg, .tif, .bmp or .dicom formats as well as .avi format videos
- Measurements can be done on still and live image
- Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations
- Mac OS-Light version is also available for capturing images
- Free updates can be downloaded on our website [www.euromex.com](http://www.euromex.com)

### 5.0 MP CAMERA

- This model is 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 ImageFocus Plus software
- Warranty for the camera is two years

### + SOFTWARE

- The ImageFocus Plus software allows to save images in .jpg, .tif, .bmp or .dicom formats as well as .avi format videos
- Images can be annotated and measurements can be performed in live or captured images
- Compatible with Windows 7, 8 and 10, both 32 and 64 bits configurations
- Mac OS version is also available
- Free updates can be downloaded on our website [www.euromex.com](http://www.euromex.com)

### LCD SCREEN

All the MicroBlue LCD microscopes are equipped with 5.6" LCD screen

- Screen resolution 640 x 480
- Save images and videos directly to SD card
- Image resolution 2048 x 1536, 1600 x 1200, 1280 x 960, 640 x 480 in .JPEG format
- Video resolution 640 x 480 in .AVI format
- Warranty for the screen is 2 years

MODELS	Mono	Bino	Trino	Maximum objectives	4/10/540x objectives	560x objective	S100x objective	Mechanical X-Y stage	LED	NeoLED	Batteries
MB.1001	•			3	•				•		•
MB.1051	•			4	•			•	•		•
MB.1651	•			4	•	•		•	•		•
MB.1151	•			4	•		•	•	•		•
MB.1052		•		4	•			•		•	•
MB.1652		•		4	•	•		•		•	•
MB.1152		•		4	•		•	•		•	•
MB.1053			•	4	•			•		•	•
MB.1653			•	4	•	•		•		•	•
MB.1153			•	4	•		•	•		•	•

MODELS	Digital LCD	Digital mono	1.3 MP	5.0 MP	Maximum objectives	4/10/540x objectives	560x objective	S100x objective	Mechanical X-Y stage	LED	Batteries
MB.1001-LCD*	•				3	•				•	•
MB.1051-LCD*	•				4	•			•	•	•
MB.1005-1		•	•		3	•				•	•
MB.1005-5		•		•	3	•				•	•
MB.1055-1		•	•		4	•			•	•	•
MB.1055-5		•		•	4	•			•	•	•
MB.1655-1		•	•		4	•	•		•	•	•
MB.1655-5		•		•	4	•	•		•	•	•
MB.1155-1		•	•		4	•		•	•	•	•
MB.1155-5		•		•	4	•		•	•	•	•

\* models with LCD-screen



## ACCESSORIES AND SPARE PARTS

### EYEPIECES

<b>AE.5571</b>	Wide field eyepiece WF 5x/18 mm
<b>MB.6010</b>	Wide field WF 10x/18 mm eyepiece
<b>MB.6010-P</b>	Wide field 10x/18 mm eyepiece with pointer
<b>MB.6010-M</b>	Wide field 10x/18 mm eyepiece with micrometer scale
<b>MB.6015</b>	Wide field WF 15x/11 mm eyepiece
<b>MB.6020</b>	Wide field WF 20x/9 mm eyepiece
<b>MB.6099</b>	Pair of eyecups

### OBJECTIVES

<b>MB.7004</b>	Achromatic 4x/0.10 objective, 35 mm parfocal
<b>MB.7010</b>	Achromatic 10x/0.25 objective, 35 mm parfocal
<b>MB.7020</b>	Achromatic 20x/0.40 objective, 35 mm parfocal
<b>MB.7040</b>	Achromatic S40x/0.65 objective, 35 mm parfocal
<b>MB.7060</b>	Achromatic S60x/0.85 objective, 35 mm parfocal
<b>MB.7000</b>	Achromatic S100x/1.25 objective, 35 mm parfocal

### CAMERA ACCESSORIES

<b>AE.5130</b>	Universal SLR adapter with built-in 2x lens for standard 23.2 mm tube. Needs T2 adapter
<b>AE.5025</b>	T2 ring for Nikon D SLR digital camera
<b>AE.5040</b>	T2 ring for Canon EOS SLR digital camera

### MISCELLANEOUS

<b>MB.9710</b>	Frosted filter
<b>MB.9975</b>	External mains adapter-charger 100-240 Vac/5 Vdc (50/60 Hz)
<b>MB.9981</b>	1 W LED replacement unit
<b>MB.9991</b>	1 W NeoLED™ replacement unit
<b>AE.5202</b>	Blue filter, diameter 32 mm
<b>AE.5203</b>	Yellow filter, diameter 32 mm
<b>AE.5204</b>	Neutral grey filter, diameter 32 mm
<b>AE.5205</b>	Green filter, diameter 32 mm
<b>AE.5207</b>	Blue filter plexiglass, diameter 32 mm
<b>MB.9900</b>	Aluminum transport case
<b>AE.9918</b>	Nylon microscope bag (25 x 39 x 19 cm)

### DISPOSABLES

<b>PB.5155</b>	Microscope slides 76 x 26 mm, ground edges, 50 pieces
<b>PB.5157-W</b>	Microscope slides 76 x 26 mm, ground edges. White frosted side, 50 pieces per pack
<b>PB.5157-B</b>	Microscope slides 76 x 26 mm, ground edges. Blue frosted side, 50 pieces per pack
<b>PB.5165</b>	Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
<b>PB.5168</b>	Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
<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
<b>PB.5276</b>	Microscope maintenance and servicing kit, 16 pcs: 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