

## MicroBlue

### HIGHLIGHTS

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



## 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  $\pm 5$  diopter adjustment on left tube
- Trinocular models have 30° inclined tubes, interpupillary distance is adjustable between 48 and 75 mm and equipped with a  $\pm 5$  diopter adjustment on the left tube
- The trinocular head has a fixed light path beamsplitter (50:50) and generates an erect image
- Models with digital head are supplied with a integrated 1.3 MP 1/2.5" CMOS sensor with 1272 x 952 pixel resolution USB 2.0 camera
- All heads are 360° rotatable and secured



● MB.1001

### FOCUSING

- Coaxial coarse and fine adjustments, 200 graduations, 15  $\mu\text{m}$  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 adjustment are equipped with friction control



Monocular head



Binocular head



Trinocular head



Digital monocular head

### NOSEPIECE

Revolving nosepiece for three or four reversed objectives on ball bearings

### 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*

### 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

## DIGITAL MODELS

### 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 5 ml immersion oil for models with an S100x objective. Software included for digital models
- All packed in a polystyrene box

### CAMERA

- All the MicroBlue build in digital camera microscopes are 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, USB-2 cable and a micrometer 1mm/100 slide.
- Warranty for the camera is two years

### SOFTWARE

- The capture and analysis ImageFocus 4 software allows to save images in .jpg, .tif or .bmp 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 Light version is also available for capturing images
- Updates can be downloaded on our website [www.euromex.com](http://www.euromex.com)



MB.1152 ●



MB.1155 ●

| MODELS  | Mono | Bino | Trino | Maximum objectives | 4/10/S40x objectives | S60x 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  | Mono | Digital mono | Maximum objectives | 4/10/S40x objectives | S60x objective | S100x objective | Mechanical X-Y stage | LED | NeoLED | Batteries |
|---------|------|--------------|--------------------|----------------------|----------------|-----------------|----------------------|-----|--------|-----------|
| MB.1055 |      | •            | 4                  | •                    |                |                 | •                    |     | •      | •         |
| MB.1655 |      | •            | 4                  | •                    | •              |                 | •                    |     | •      | •         |
| MB.1155 |      | •            | 4                  | •                    |                | •               | •                    |     | •      | •         |

## ACCESSORIES AND SPARE PARTS

- MB.6010** Wide field 10x/18 mm eyepiece with pointer  
**MB.6010-P** Wide field 10x/18 mm eyepiece with pointer  
**MB.6010-M** Wide field 10x/18 mm eyepiece with micrometer scale  
**MB.6015** Wide field 15x/11 mm eyepiece  
**MB.6020** Wide field 20x/9 mm eyepiece

**MB.6099** Pair of eyecups

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

**MB.9710** Frosted filter

- MB.9900** Aluminium transport case  
**AE.9918** Nylon microscope bag, dimensions 26 x 18 x 400 mm  
**MB.9975** External mains/charger adapter 100-240 Vac/5 Vdc (50/60 Hz)  
**MB.9981** 1 W LED replacement unit  
**MB.9991** 1W NeoLED replacement unit for binocular MicroBlue

- PB.5155** Microscope slides 76 x 26 mm, ground edges, 50 pieces  
**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.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 = 1.482 (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