



*Binocular microscope, 1000x,  
achromatic objectives*

|                  |                                   |                   |
|------------------|-----------------------------------|-------------------|
| <b>Main Body</b> | Type                              | Upright           |
|                  | Construction material             | Aluminum die-cast |
|                  | with transportation handle        | Yes               |
|                  | Internal prism                    | Glass prism       |
|                  | Optical system                    | Finite 160 mm     |
|                  | Optics with anti-fungus treatment | Yes               |

|             |                              |              |
|-------------|------------------------------|--------------|
| <b>Head</b> | Type                         | Binocular    |
|             | Construction                 | Siedentopf   |
|             | Inclination                  | 30°          |
|             | Rotation                     | 360°         |
|             | Fixing screw for eyepieces   | Yes          |
|             | Diopter adjustment           | On left tube |
|             | Diopter compensation         | +5           |
|             | Interpupillary distance (mm) | 55-75        |
|             | Tube inner diameter (mm)     | 23           |

|                  |                   |          |
|------------------|-------------------|----------|
| <b>Eyepieces</b> | Magnification     | 10x      |
|                  | Field number (mm) | 18       |
|                  | Micrometric scale | Optional |

|                  |                           |           |
|------------------|---------------------------|-----------|
| <b>Nosepiece</b> | Positions                 | Quadruple |
|                  | Reversed                  | Yes       |
|                  | Bi-directional            | Yes       |
|                  | Rotation on ball bearings | Yes       |
|                  | Objective thread          | RMS       |

|                   |                         |                 |
|-------------------|-------------------------|-----------------|
| <b>Objectives</b> | Type                    | ACH             |
|                   | Correction              | Achromatic      |
|                   | Parfocal distance (mm)  | DIN 45          |
|                   | Optical system          | Finite 160 mm   |
|                   | Standard magnifications | 4x-10x-40x-100x |
|                   |                         | M-131           |
|                   |                         | M-132           |
|                   |                         | M-134           |
|                   | M-136                   |                 |

|  |  |                                    |
|--|--|------------------------------------|
| <b>Stage</b>                                     | Dimensions (mm)                                | 125x125                            |
|  | Mechanical stage                               | Rack and pinion                    |
|  | Material                                       | Anti-scratch painting              |
|  | Specimen holder                                | Yes                                |
|  | Slide number                                   | 1                                  |
|  | Moving range (mm)                              | 62x24                              |
|  | X-Y movement                                   | Yes                                |
|  | X-Y Vernier scale                              | Yes                                |
|  | Vernier scale accuracy (mm)                    | 0.1                                |
|  | Type   | Double layer                       |
|  | Right / Left hand                              | Right                              |
| <b>Condenser - Single Position</b>               | Type   | Abbe                               |
|  | Numerical aperture (N.A.)                      | 0.9 / 1.25                         |
|  | Aperture diaphragm                             | Iris                               |
|  | Holder for color filters                       | Yes                                |
|  | Centerable                                     | Pre-centered                       |
|  | Focusable                                      | By rotation                        |
| <b>Focusing System</b>                           | Type   | Coaxial coarse & fine              |
|  | Focus modes                                    | Coarse & fine                      |
|  | Coarse total travel (mm)                       | 13                                 |
|  | Coarse total travel (per single rotation) (mm) | 0.9                                |
|  | Fine graduations                               | 100                                |
|  | Fine total travel (per single rotation) (mm)   | 1,2                                |
|  | Fine resolution ( $\mu\text{m}$ )              | 12                                 |
|  | Upper stop to prevent contact                  | Yes                                |
| <b>Observation Method - Transmitted Light</b>    | Brightfield                                    | Yes                                |
|  | Simple polarized light                         | Optional                           |
| <b>Transmitted Illumination</b>                  | Type   | LED                                |
|  | Light source power (W)                         | 1                                  |
|  | Brightness control                             | Manual                             |
|  | Color Temperature (K)                          | 5,500                              |
|  | Lifetime (hours)                               | > 65,000                           |
|  | Max. required power (W)                        | 1,5                                |
| <b>Power Supply for Transmitted Illumination</b> | Type   | External                           |
|  | Microscope connector                           | Jack, 2.1 mm                       |
|  | Power plug type                                | Multi-plug (EU, UK, US)            |
|  | Input voltage                                  | 100/240 Vac, 50/60 Hz              |
|  | Output voltage                                 | 5 Vdc 2,5 A                        |
|  | Use with batteries                             | Yes, not supplied                  |
|  | Rechargeable Battery                           | Yes                                |
|  | Battery type                                   | Ni-MH (3x, AAA size), 1.2V, 650mAh |
|  | Working time of batteries (hours)              | up to 21                           |
|  | Charging time of batteries (hours)             | 8                                  |
| <b>Accessories Included</b>                      | Dust cover                                     | Yes                                |
|  | Immersion oil (10ml)                           | Yes                                |
|  | User Manual                                    | Digital version (downloadable)     |
| <b>Product Dimensions (footprint)</b>            | Width (mm)                                     | 133                                |
|  | Depth (mm)                                     | 175                                |

|   |             |     |
|---|-------------|-----|
| <b>Product Dimensions<br/>(overall footprint)</b> | Height (mm) | 318 |
|   | Width (mm)  | 158 |
|   | Depth (mm)  | 344 |
| <b>Product Weight</b>                             | (kg)        | 2,8 |