



Digital binocular microscope, 1000x, integrated 3 MP camera, rechargeable, N-PLAN objectives

| | | |
|---|-------------------------------------|------------------------|
| Observation Method - Transmitted Light | Brightfield | Yes |
| | Phase contrast (Positive type) | No |
| | Simple polarized light | As optional |
| Main Body | Type | Upright |
| | Construction material | Aluminum die-cast |
| Head | Type | Binocular (Siedentopf) |
| | Inclination | 30° |
| | 360° rotating | Yes |
| | Interpupillary distance (mm) | 48-75 |
| | Diopter adjustment | On left tube |
| | Fixing screw for eyepieces | Yes |
| | Tube inner diameter (mm) | 23 |
| Eyepieces | Field number (mm) | 18 |
| | Magnification | 10x |
| | Pointer | As optional |
| | Micrometric scale | As optional |
| | Diameter of micrometer glass (mm) | 20 |
| | High eyepoint (for glass wearers) | Yes |
| Nosepiece | Positions | Quadruple |
| | Bi-directional | Yes |
| | Rotation on ball bearings | Yes |
| | Objective thread | RMS |
| Objectives | Optical system | 160 |
| | Anti-fungus treatment | Yes |
| | Parfocal distance (mm) | 45 |
| | Standard magnifications | 40x-1000x |
| | Type | N-PLAN |
| | | 4x/0.10, W.D. 15.2 mm |
| | | 10x/0.25, W.D. 5.5 mm |
| | | 40x/0.65, W.D. 0.45 mm |
| | 100x/1.25 (Oil/Water), W.D. 0.13 mm | |

| | | |
|--|--|--|
| Stage | Type | Double layer |
| | Dimensions (mm) | 125x116 |
| | Moving mechanism | Rack and pinion |
| | Moving range (mm) | 70x30 |
| | Material | Anti-scratch painting |
| | Specimen holder | Yes |
| | Slide number | 1 |
| | X-Y movement | Yes |
| | X-Y Vernier scale | Yes |
| | Vernier scale accuracy (mm) | 0.1 |
| Condenser - Single Position | Type | Abbe |
| | Numerical aperture (N.A.) | 1.25 |
| | Diaphragm | Iris |
| | Centrable | Pre-centered |
| | Focusable | By rotation |
| Focusing System | Type | Coaxial coarse & fine |
| | Coarse total travel (mm) | 16 |
| | Fine total travel (per single rotation) (mm) | 0,4 |
| | Fine graduations | 100 |
| | Fine resolution (µm) | 4 |
| | Upper stop to prevent contact | Yes |
| | Adjustable tension | Yes |
| Transmitted Illumination | Type | X-LED |
| | X-LED type | X-LED1 |
| | Light source power (W) | 1 |
| | Brightness control | Manual |
| | Lifetime (hours) | > 65,000 |
| | Temperature (K) | 6,300 |
| | Max. required power (W) | 1,5 |
| Power Supply for Transmitted Illumination | 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 500 mA |
| | LED indicator | Yes |
| | Rechargeable batteries | Yes |
| | Battery type | Li-ion (battery pack) |
| | Working time of batteries (hours) | 15 |
| Charging time of batteries (hours) | 6 | |
| Accessories Included | Dust cover | Yes |
| | Immersion oil (10ml) | Yes |
| | Tension adjustment tool | Yes |
| | User Manual | Digital version (downloadable) |
| | USB cable (m) | 1,8 |
| Additional Information | | Mirror for transmitted light (as optional) |

| | | |
|--------------------------------------|---|-------------------------------------|
| Product Dimensions | Height (mm) | 365 |
| | Width (mm) | 170 |
| | Depth (mm) | 320 |
| Product Weight | (kg) | 4 |
| Camera General specifications | USB output | Yes |
| | C-Mount | Yes |
| | Dimensions (mm) | Included in the microscope head |
| | Weight (kg) | Included in the microscope head |
| Sensor | Camera resolution (n° of pixels: W x H) | 2048x1536 |
| | Color / Monochrome | Color |
| | Sensor Size | 1/2.5" |
| | Sensor Technology | CMOS |
| | Sensor Type | APTINA CMOS |
| | Image Format | 4/3 |
| | Pixel Size (mm) | 2.8x2.8 |
| | Acquisition technology | Rolling shutter |
| | Sensitivity | 0.53 V/lux-second |
| | Signal/Noise Ratio (DB) | 40.5 |
| | Dynamic range (DB) | 66.5 |
| | ADC conversion | 12 Bit |
| | Color Depth | 8 Bit |
| | Exposure time | 0.1 - 1.5 sec |
| | Binning | 1x1 |
| IR filter | Yes | |
| IR filter range (nm) | 380-650 (IR CUT) | |
| USB | Camera resolution (MP) | 3.1 |
| | USB standard | USB2.0 |
| | Frame rate full resolution (fps) | 4@2048x1536 |
| | Frame rate other resolution (fps) | 8@1280x1024; 30@640x480 |
| Camera Power Supply | Output voltage | PC USB |
| | LED indicator | Yes |
| Environment | Working Temperature | -10°C up to +50°C |
| | Storage Temperature | -20°C up to +60°C |
| | Relative Humidity | 30% to 80% |
| | Storage Humidity | 10% to 60% |
| Operating System | OS | No |
| | OS | Windows 8 |
| | OS | Windows 10 (32Bit) |
| | OS | Windows 10 (64Bit) |
| | OS | Windows 11 |
| Available Software | PC SW | PROVIEW |
| PC requirements | PC | CPU: Intel Core2 - 2.8GHz or higher |
| | PC | RAM: 2GB or more |
| | PC | USB 2.0 |