



B-290 Digital binocular microscope with digital imaging unit, 1000x, PLAN, EU

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| Observation Method - Transmitted Light | Brightfield | Yes |
| | Phase contrast (Positive type) | Optional |
| | Darkfield | Optional |
| | Simple polarized light | Optional |
| Main Body | Type | Upright |
| | Construction material | Aluminum die-cast |
| | Transportation handle | Yes |
| 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) | 20 |
| | Magnification | 10x |
| | Pointer | Optional |
| | Micrometric scale | Optional |
| | Diameter of micrometer glass (mm) | 21 |
| | High eyepoint (for glass wearers) | Yes |
| | Rubber cup | Yes |
| Nosepiece | Positions | Quadruple |
| | Reversed | Yes |
| | 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 | |

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| | | 100x/1.25 (Oil/Water), W.D. 0.13 mm |
| Stage | Type | Double layer |
| | Dimensions (mm) | 150x140 |
| | Moving mechanism | Rackless |
| | Right / Left hand | Right |
| | Moving range (mm) | 75x33 |
| | Material | Anti-scratch painting |
| | Specimen holder | Yes |
| | Slide number | 1 |
| | X-Y Vernier scale | Yes |
| | Vernier scale accuracy (mm) | 0.1 |
| Condenser - Single Position | Type | Abbe |
| | Removable | Yes |
| | Slot for sliders | Yes |
| | Numerical aperture (N.A.) | 0.9 / 1.25 |
| | Magnification scale for simplified positioning | Yes |
| | Diaphragm | Iris |
| | Slider for phase contrast | Optional |
| | Slider for darkfield (dry) | Optional |
| | Centerable | Yes |
| | Focusable | By rack and pinion |
| Focusing System | Type | Coaxial coarse & fine |
| | Focus modes | Coarse & fine |
| | Coarse total travel (mm) | 18 |
| | Fine graduations | 100 |
| | Fine total travel (per single rotation) (mm) | 0,4 |
| | Fine resolution (μm) | 4 |
| | Upper stop to prevent contact | Yes |
| | Adjustable tension | Yes |
| Transmitted Illumination | Kohler illumination | Fixed |
| | Type | X-LED |
| | X-LED type | X-LED3 |
| | Light source power (W) | 3.6 |
| | Brightness control | Manual |
| | Lifetime (hours) | > 65,000 |
| | Color Temperature (K) | 6,300 |
| Max. required power (W) | 6 | |
| 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 | 6 Vdc 2.5 A |
| Accessories Included | Dust cover | Yes |
| | Immersion oil (10ml) | Yes |
| | Tension adjustment tool | Yes |
| | User Manual | Digital version (downloadable) |
| | Calibration slide | Yes |
| | USB cable (m) | 0,5 |
| Product Dimensions (footprint) | | |
| | Width (mm) (E) | 140 |
| | Depth (mm) (D) | 220 |

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| Product Dimensions (overall footprint) | Height (mm) (C) | 525 |
| | Width (mm) (B) | 260 |
| | Depth (mm) (A) | 320 |
| Product Weight | (kg) | 7.4 |
| Camera General specifications | USB output | Yes |
| | Height (mm) (C) | Included in the microscope head |
| | Weight (kg) | Included in the microscope head |
| Sensor | Camera resolution (n° of pixels: W x H) | 2592x1944 |
| | Color / Monochrome | Color |
| | Sensor Size | 1/2.5" |
| | Sensor Technology | CMOS |
| | Sensor Type | APTINA CMOS |
| | Image Format | 4:3 |
| | Pixel Size (mm) | 2.2x2.2 |
| | Acquisition technology | Rolling shutter |
| | Sensitivity | 18.8ke/lus |
| | Signal/Noise Ratio (DB) | 40 |
| | Dynamic range (DB) | 73 |
| | ADC conversion | 12 Bit |
| | Color Depth | 8 Bit |
| | Exposure time | 0.1 msec - 1 sec |
| | Binning | 1x1 |
| IR filter | Yes | |
| IR filter range (nm) | 380-650 (IR CUT) | |
| USB | Camera resolution (MP) | 5.1 |
| | USB standard | USB2.0 |
| | Frame rate full resolution (fps) | 30@2592x1944 |
| | Frame rate other resolution (fps) | 30@1280x960 30@640x480 |
| Camera Power Supply | Connector | USB |
| | 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 | Windows 11 |
| Available Software | PC SW | PROVIEW |
| Digital Imaging Unit | Operating system | Windows 11 |
| | CPU | Intel® Core M3-8100Y |
| | CPU speed | 3.4GHz |
| | Graphic card | Intel® UHD Graphics 615 |
| | RAM | DDR3 12GB |
| | Display size | 10.1" Incell 16:10 |
| | Display resolution | 1280x800 |
| | Storage | Hdd 128 GB (SATA) |
| | Network | 2.4G/5G 802.11a/b/g/n/ac + BT5.0 (6221C) |
| | Input ports | USB-A 3.0 (1x), Type C (2x) |

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| | Output ports | Headphone - Micro HDMI |
| | Battery Type | Pure Cobalt |
| | Battery capacity | 3400 mAh |
| | Power consumption | 25,84W |
| | Power supply | 12V2A Type-C |
| | Plug | European |
| | Dimensions (mm) | 245.5*164.2*10 |
| | Weight (Kg) | 0.57 |
| | Language | English |

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| Digital Imaging Unit accessories | USB cable USB-B to USB-A (0.5m) | Yes |
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