



Inverted trinocular metallurgical microscope, IOS

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| Observation Method - Incident Light | Brightfield | Yes |
| | Simple polarized light | Yes |
| Main Body | Type | Inverted |
| | Construction material | Aluminum die-cast |
| Head | Type | Trinocular (Siedentopf) |
| | Split ratio | 100/0 - 50/50 |
| | Inclination | 45° |
| | Interpupillary distance (mm) | 50-75 |
| | Dioptric adjustment | On left tube |
| | Tube inner diameter (mm) | 30 |
| Eyepieces | Field number (mm) | 22 |
| | Magnification | 10x |
| | Planar type | Yes |
| | Micrometric scale | As optional |
| | Diameter of micrometer glass (mm) | 26 |
| | High eyepoint (for glass wearers) | Yes |
| | Rubber cup | Yes |
| | Retractable protections | Yes |
| Nosepiece | Positions | Quintuple |
| | Reversed | Yes |
| | Bi-directional | Yes |
| | Rotation on ball bearings | Yes |
| | Objective thread | RMS |
| Objectives | Optical system | ∞ |
| | Anti-fungus treatment | Yes |
| | Parfocal distance (mm) | 45 |
| | Standard magnifications | 50x-500x |
| | Type | IOS LWD U-PLAN MET |
| | | IOS LWD U-PLAN MET 5x/0.15, W.D. 10.8 mm |
| | | IOS LWD U-PLAN MET 10x/0.30, W.D. 10.0 mm |
| | IOS LWD U-PLAN MET 20x/0.45, W.D. 4.0 mm | |
| | IOS LWD U-PLAN MET 50x/0.55, W.D. 7.9 mm | |
| Stage | Type | Fixed |
| | Dimensions (mm) | 250x160 |
| | Material | Anti-scratch painting |
| | Metal round insert | Yes |
| Focusing System | Type | Coaxial coarse & fine |
| | Fine total travel (per single rotation) (mm) | 0.2 |
| | Fine graduations | 100 |
| | Fine resolution (μm) | 2 |
| | Upper stop to prevent contact | Yes |
| | Adjustable tension | Yes |

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| Accessories Included | Dust cover | Yes |
| | Allen wrench | Yes |
| | Green filter | Yes |
| | LBD filter | Yes |
| | User Manual | Digital version (downloadable) |
| Additional Information | | Mechanical stage dimension 250x230 mm, X-Y translation range 120x80 mm (as optional). |
| Product Dimensions | Height (mm) | 390 |
| | Width (mm) | 230 |
| | Depth (mm) | 680 |
| Product Weight | (kg) | 9 |
| Metallographic Attachment | Polarizer | Yes |
| | Analyzer, 360° rotatable | Yes |
| | Field diaphragm | Centerable |
| | Aperture diaphragm | Centerable |
| Metallographic Light Source | Light source | Halogen |
| | Light source power (W) | 50 |
| | Lifetime (hours) | > 3,000 |
| | Temperature (K) | 3,500 |
| | Brightness control | Yes |
| Metallographic Power Supply | Type | Internal |
| | Microscope connector | C13 plug |
| | Power plug type | Multi-plug (EU, UK, US) |
| | Input voltage | 110/240 Vac, 50/60 Hz |
| | Max. power required (W) | 62 |