



Inverted trinocular metallurgical microscope (brightfield / darkfield), IOS

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| Observation Method - Incident Light | Brightfield | Yes | |
| | Darkfield | 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 | |
| | Fixing screw for eyepieces | Yes | |
| | Tube inner diameter (mm) | 30 | |
| Eyepieces | Field number (mm) | 24 | |
| | Magnification | 10x | |
| | Planar type | Yes | |
| | Micrometric scale | As optional | |
| | Diameter of micrometer glass (mm) | 26 | |
| | High eyepoint (for glass wearers) | Yes | |
| | Dioptric adjustment | Yes | |
| | Rubber cup | Yes | |
| | Retractable protections | Yes | |
| Nosepiece | Positions | Quintuple | |
| | Reversed | Yes | |
| | Bi-directional | Yes | |
| | Rotation on ball bearings | Yes | |
| | Objective thread | M26 | |
| | DIC slot | Yes | |
| | Removable | Yes | |
| Objectives | Optical system | ∞ | |
| | Anti-fungus treatment | Yes | |
| | Parfocal distance (mm) | 45 | |
| | Standard magnifications | 50x-1000x | |
| | Configurable objectives | IOS LWD U-PLAN MET 5x/0.15, W.D. 10.8 mm | |
| | | IOS LWD U-PLAN MET 10x/0.30, W.D. 10 mm | |
| | | IOS LWD U-PLAN MET 20x/0.45, W.D. 4 mm | |
| | | IOS LWD U-PLAN MET 50x/0.55, W.D. 7.9 mm | |
| | | IOS LWD U-PLAN MET 100x/0.8, W.D. 2.1 mm | |
| | | IOS LWD U-PLAN MET BD 5x/0.15, W.D. 9 mm | |
| | | IOS LWD U-PLAN MET BD 10x/0.30, W.D. 9 mm | |
| | | IOS LWD U-PLAN MET BD 20x/0.45, W.D. 3.4 mm | |
| | | IOS LWD U-PLAN MET BD 50x/0.55, W.D. 7.5 mm | |
| | | IOS LWD U-PLAN MET BD 100x/0.80, W.D. 2 mm | |

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| | IOS LWD U-PLAN F MET 5x/0.15, W.D. 19.5 mm |
| | IOS LWD U-PLAN F MET 10x/0.30, W.D. 10.9 mm |
| | IOS LWD U-PLAN F MET 20x/0.50, W.D. 3.2 mm |
| | IOS LWD U-PLAN F MET 50x/0.80, W.D. 1.2 mm |
| | IOS LWD U-PLAN F MET 100x/0.90, W.D. 1.0 mm |
| | IOS LWD U-PLAN F MET BD 5x/0.15, W.D. 13.5 mm |
| | IOS LWD U-PLAN F MET BD 10x/0.30, W.D. 9.0 mm |
| | IOS LWD U-PLAN F MET BD 20x/0.50, W.D. 2.5 mm |
| | IOS LWD U-PLAN F MET BD 50x/0.80, W.D. 1.0 mm |
| | IOS LWD U-PLAN F MET BD 100x/0.90, W.D. 1.0 mm |

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| Stage | Type | Mechanical stage |
| | Dimensions (mm) | 240x250 |
| | Moving mechanism | Rack and pinion |
| | Moving range (mm) | 50x50 |
| | Material | Anti-scratch painting |
| | Specimen clips | Yes |
| | Metal round insert | Yes |
| | X-Y Vernier scale | Yes |
| | Vernier scale accuracy (mm) | 0.1 |

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| 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 |
| | LBD filter | Yes |
| | Spare halogen lamp | Yes (2 pieces) |
| | User Manual | Digital version (downloadable) |

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| Product Dimensions | Height (mm) | 400 |
| | Width (mm) | 360 |
| | Depth (mm) | 750 |

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| Product Weight | (kg) | 10 |
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| Metallographic Attachment | Polarizer | Yes |
| | Analyzer, 360° rotatable | Yes |
| | Darkfield illumination | Yes |
| | Field diaphragm | Centerable |
| | Aperture diaphragm | Centerable |

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| Metallographic Light Source | Light source | Halogen |
| | Watt (W) | 100 |
| | Lifetime (hours) | > 3,000 |
| | Temperature (K) | 3,500 |
| | Brightness control | Yes |

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| Metallographic Power Supply | Type | External |
| | Microscope connector | 4-pin proprietary |
| | Power plug type | Multi-plug (EU, UK, US) |
| | Input voltage | 100/240 Vac, 50/60 Hz |
| | Max. power required (W) | 140 |
| | ECO function | Yes |
| | LED indicators | Yes |