



M48 Metallurgical Microscope Semiconductor Inspection



M48 Metallurgical Microscope Features

- 1 30° inclined trinocular head, erect image, interpupillary distance: 50-76mm, splitting ratio: 100:0 or 0:100
- 2 High eye point wide field plan eyepiece PL10x/25mm or PL10x/26.5mm with adjustable diopter. Eyepieces accept 26mm diameter reticle.
- 3 12v, 100w Halogen BD reflected arm illuminator with center adjustable iris aperture and field diaphragms with shift switch to switch between brightfield and darkfield.
- 4 Rotatable polarizer & analyzer.
- 5 Ergonomically low positioned coaxial focusing controls allow the operator to work with their forearms relaxed on the working surface. Coarse range of travel is 33mm. Rotation of fine focus is 0.001mm per revolution.



M48 Metallurgical Microscope Features

- 6 High performance nosepiece options:
Brightfield / darkfield quintuple and sextuple with DIC slot.
Brightfield sextuple / septuple nosepiece with DIC slot.
- 7 Metallurgical objective lenses:
LWD Brightfield Plan Achromat
High Resolution Brightfield Semi Apo
LWD BD Plan Achromat
High Resolution Brightfield / Darkfield Semi Apo
- 8 Stable three layer long travel mechanical stage with low position coaxial adjustment and glass plate.
6" stage size 445mm x 240mm with moving range of 158mm x 158mm.
8" stage size 525mm x 330mm with moving range of 210mm x 210mm.



LWD Brightfield Plan Achromat Objectives

- FMPLN5, Plan Achromat LWD 5x Objective, NA 0.15, WD 10.8mm
- FMPLN10, Plan Achromat LWD 10x Objective, NA 0.30, WD 12.2mm
- FMPLN20, Plan Achromat LWD 20x Objective, NA 0.45, WD 4mm
- FMPLN50, Plan Achromat LWD 50x Objective, NA 0.55, WD 7.9mm
- FMPLN100, Plan Achromat LWD 100x Objective, NA 0.80, WD 2.1mm



High Resolution Brightfield Semi Apo Objectives

- BF-SAPO-M5, Semi Apo Metallurgical 5x objective; NA 0.15; WD 19.5mm
- BF-SAPO-M10, Semi Apo Metallurgical 10x objective; NA 0.30; WD 10.9mm
- BF-SAPO-M20, Semi Apo Metallurgical 20x objective; NA 0.50; WD 3.2mm
- BF-SAPO-M50, Semi Apo Metallurgical 50x objective; NA 0.80; WD 1.2mm
- BF-SAPO-M100, Semi Apo Metallurgical 100x objective; NA 0.90; WD 1.0mm



LWD Brightfield / Darkfield Plan Achromat Objectives

- LWD-BD-M5, Plan Achromat LWD 5X objective, NA 0.14, WD 20.5mm
- LWD-BD-M10, Plan Achromat LWD 10X objective, NA 0.25, WD 16mm
- LWD-BD-M20, Plan Achromat LWD 20X objective, NA 0.40, WD 7.8mm
- LWD-BD-M50, Plan Achromat LWD 50X objective, NA 0.55, WD 7.9mm
- LWD-BD-M100, Plan Achromat LWD 100X objective, NA 0.80, WD 2.1mm

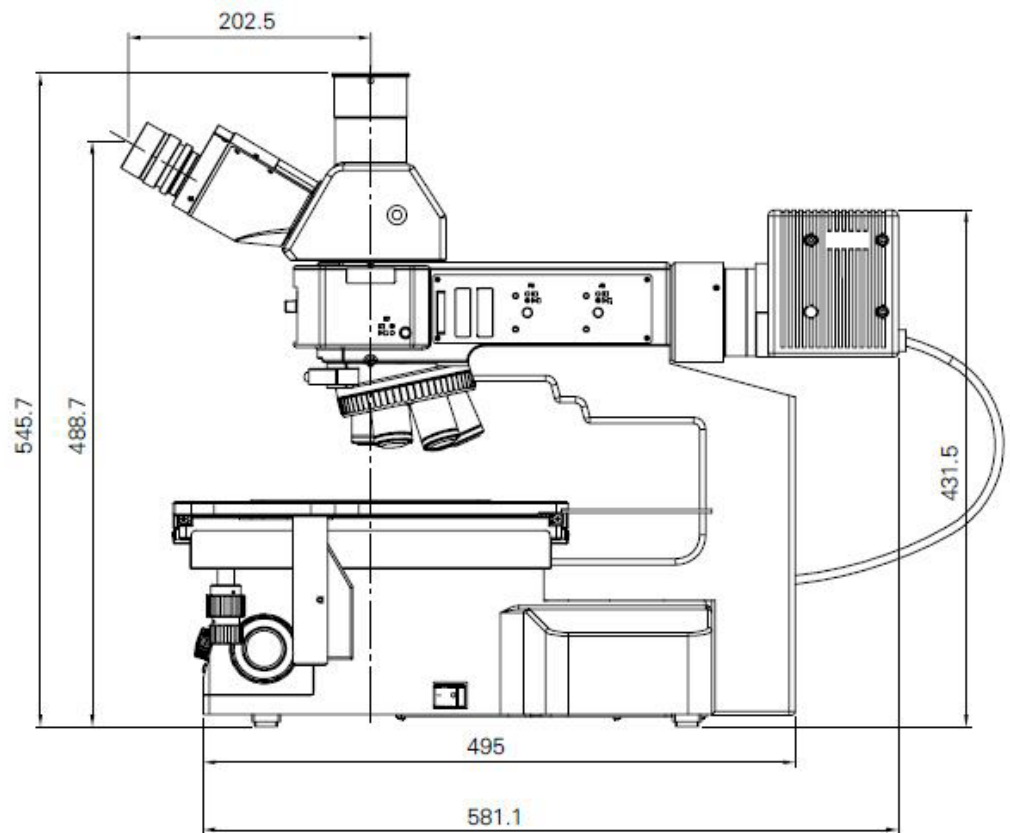
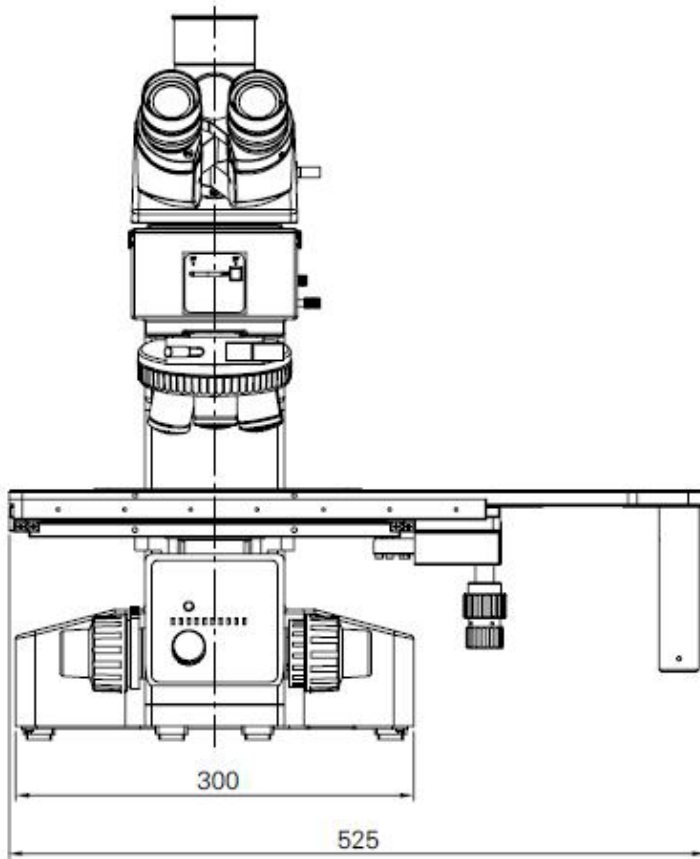


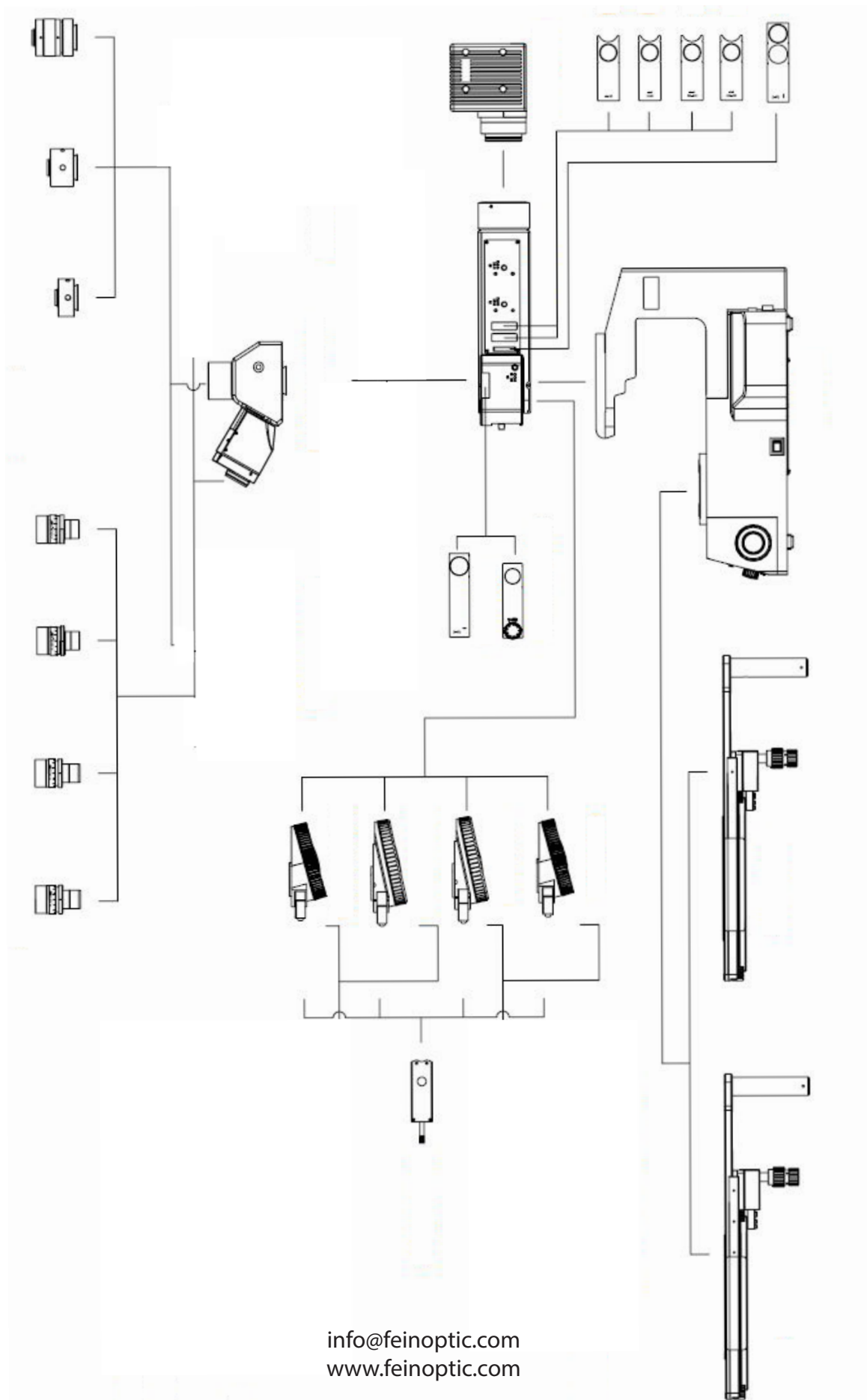
High Resolution Brightfield / Darkfield Semi Apo Objectives

- BD-SAPO-M5, Brightfield / Darkfield Semi Apo 5x objective; NA 0.15; WD 19.5mm
- BD-SAPO-M10, Brightfield / Darkfield Semi Apo 10x objective; NA 0.30; WD 10.9mm
- BD-SAPO-M20, Brightfield / Darkfield Semi Apo 20x objective; NA 0.45; WD 3.2mm
- BD-SAPO-M50, Brightfield / Darkfield Semi Apo 50x objective; NA 0.80; WD 1.3mm
- BD-SAPO-M100, Brightfield / Darkfield Semi Apo 100x objective; NA 0.90; WD 1.0mm

M48 Metallurgical Microscope Specifications

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| Optical System | Infinity Color Corrected Optical System |
| Observation | Brightfield / Darkfield / Polarization / DIC |
| Viewing Head | 30° inclined trinocular head, erect image, interpupillary distance: 50-76mm, splitting ratio: 100:0 or 0:100. |
| Eyepieces | High eye point widefield plan eyepiece PL10x/25mm, with adjustable diopter. |
| | High eye point widefield plan eyepiece PL10x/26.5mm, with adjustable diopter. |
| Objective Lenses | Infinity Corrected LWD Brightfield Plan Achromat Objectives 5x, 10x, 20x, 50x, 100x. |
| | Infinity Corrected High Resolution Brightfield Semi Apo Objectives 5x, 10x, 20x, 50x, 100x. |
| | Infinity Corrected LWD DB Plan Achromat Objectives 5x, 10x, 20x, 50x, 100x. |
| | Infinity Corrected High Resolution BD Semi Apo Objectives 5x, 10x, 20x, 50x, 100x. |
| Nosepiece | Brightfield / Darkfield quintuple nosepiece with DIC slot. |
| | Brightfield / Darkfield sextuple nosepiece with DIC slot. |
| | Brightfield sextuple nosepiece with DIC slot. |
| | Brightfield septuple nosepiece with DIC slot |
| Focus Adjustment | Low position coaxial focus mechanism, coarse range: 33mm, fine precision: 0.001mm. Upper limit and tension adjustment. |
| Body | Power supply 100~240V wide voltage system. |
| Stage | 6" three layer mechanical stage with low position coaxial adjustment, size: 445mm x 240mm. Moving range: 158mm x 158mm. Clutch handle for quick movement and glass plate for reflected use. |
| | 8" three layer mechanical stage with low position coaxial adjustment, size: 525mm x 330mm. Moving range: 210mm x 210mm. Clutch handle for quick movement and glass plate for reflected use. |
| Illumination | 12V/100W halogen BD reflected illuminator with electronic variable aperture and field diaphragm, center adjustable with switch for changing from brightfield to darkfield. Slots for filters and polarizing kit. |
| Polarization | Analyzer with rotatable polarizer. |
| C-Mount Adapter | 0.5x, 0.65x, 1x c-mount adapter. |





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