



Redefining Perfection and Precision
Upright Inspection Microscope

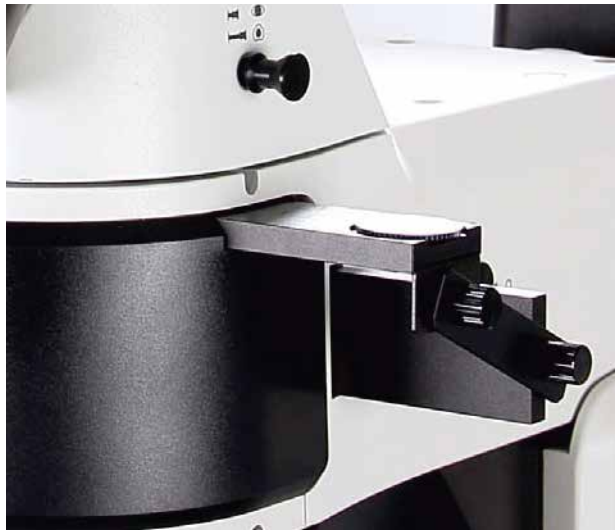
MA27MET - BD Metavis
Scientific Instrument

METAVIS = Optical + Solution

A combination of high-technology and creativity, the Metavis MA27-MET series offers superior optical performance as well as an advanced ergonomic design, futuristic digital capabilities, and innovative modules. Metavis MA27-MET: Your ultimate metallurgical Optical Solution.



MA27MET - BD



Customizable Optics and Lighting Systems

Reflected Light Illuminator

The reflected light illuminator provides a variety of observation methods such as BF, BF/DF or DIC to meet all user needs.

Combined Switch for BF/DF and ND Filter

With the BF/DF converter switch on the front, it is easier to change observation modes. The interlocking ND filter protects the operator's eyes against dramatic changes in brightness,

Polarizer and Analyzer Filters

A set of polarizer and analyzer filters help you switch from the DIC/POL to other observation modes quickly and easily. These filters are designed as sliders and are accessible from either side of the microscope for maximum convenience.

Optimal DIC with High Quality Imaging

Using a DIC slider with a single prism, Nomarski DIC observation mode offers easy switching to other observation modes and facilitates observations on any range of magnifications because the position of the DIC prism remains constant.





Z-axis Module Specifications

| | | | |
|-----------------|--------------------|---------------|------------|
| Stroke Distance | 30 mm | Dimensions | W:240 mm |
| Resolution | 0.01 μm | | D:157 mm |
| Repeatability | 0.5 μm | | H:202.5 mm |
| Max Speed | 1.4 mm/s | Load capacity | 15 kg |
| Weight | 5 kg | | |



From simple measurements to complicated analyses, our superior optical performance fulfills your needs.

Superior Color Reproduction

Metavis's advanced optical design and lens coating technologies converge to create high quality semi-apochromatic objective lenses. These lenses offer improved resolution and superior color reproduction that are faithful to the original samples.

Complete Removal of Aberration and Flare-Free

Plan semi-apochromat objective lenses offer the world's best image quality and feature spherical aberration correction. Flare is minimized by anti-reflective processing inside the objective lenses.

Accurate Parcentric Objective Lenses

Decentration occurs when using different magnification objective lenses. This is minimized by the improved precision-processed objective lenses and nosepiece. The image is kept within the center of view even when observing with a digital camera.

Comfortable Eyepiece

In order to reduce eyestrain, MA27MET-BD eyepieces have an extra wide 25mm field number. The 20° angled head provides a comfortable viewing position. In addition, the prism is designed to minimize optical loss.



High-Speed, High-Efficiency, and Intelligent Functionality from our Latest Digital Technology.

Convenient, Multi-Function Illumination Selection Knob

Enhanced work efficiency and convenience are achieved through the development of a versatile selection knob combining all functionality needed for reflected/transmitted illumination as well as brightness control.

Illumination Selection Indicator

Reflected/Transmitted Illumination, Max/Min Brightness, ECO ON/OFF, and Z-Axis positioning can be easily checked at a glance. Incorrect selections occurring during regular operation are thus minimized—further improving work efficiency and effectiveness.

Environment Friendly ECO Function

An automatic power saving mode is engaged whenever an operator leaves temporarily. This power saving mode is enabled to protect your samples from the heat of the illuminator. This mode also results in energy savings which extend the lifetime of the lamp and reduce overall operational costs. The time delay for power saving mode is adjustable with Metavis Analysis software.

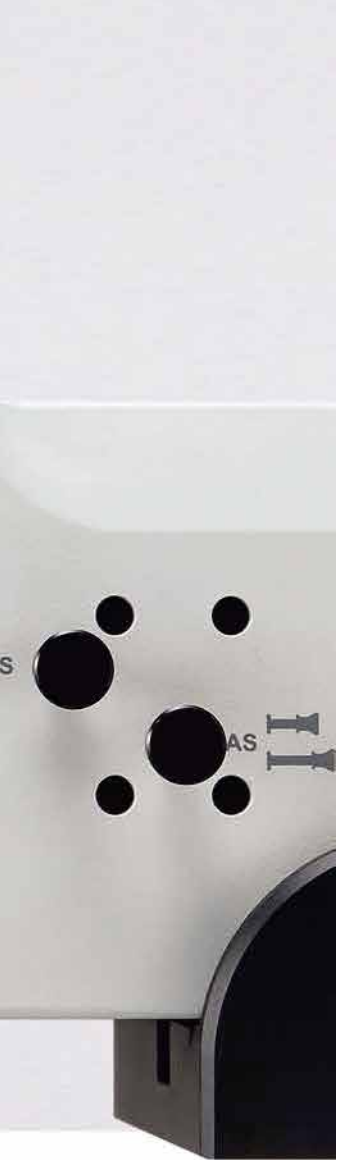
Constant, Consistent IL Brightness

Working efficiency is further increased by providing an optimized constant brightness in lighting to images. This consistent brightness level is maintained even if the observation magnification is changed during operation.



Full Automation, Increased Speed, and Less Effort.

Automatic, precisely controlled nosepieces, X/Y stage, and Z-axis operation reduces operator exertion and makes work quicker and less demanding. Operation can become even more efficient through utilization of accessories.



Enjoy a more Satisfying Inspection Microscope Experience through the Convenience of Automated Adjustments and a Wide Range of Observation Methods.

Motorized Revolving Nosepiece

The motorized nosepiece increases the speed of your workflow marking the MA27MET - BD more convenient to work with. Choose from software, frame button or controller adjustment methods based on your needs and preference to further increase productivity and efficiency.

SPECIFICATIONS

| | MA27MET | MA27MET-3D | MA27MET-T | MA27MET-BD | MA27MET-BD-3D | MA27MET-BD-T |
|--------------------------------|--|--|-------------------------|---|--|-------------------------|
| Optical System | Colour Corrected Infinity Optical System (CCIS®) | | | | | |
| Illumination | Reflected | Reflected | Reflected / Transmitted | Reflected | Reflected | Reflected / Transmitted |
| Observation Tube | Erect type (F.N 25), 20° inclined | | | | | |
| Binocular (Optional) | Erect type (F.N 25), 20° inclined, Trino Light path selection: 2-step (100:0 / 0:100) | | | | | |
| Trinocular | Erect type (F.N 25), 20° inclined, Trino Light path selection: 2-step (100:0 / 0:100) | | | | | |
| Eyepieces | 10X (F.N 25), Diopter adjustable, Reticle optional | | | | | |
| Revolving Nosepiece | 5-position Nosepiece for Brightfield objective lens with DIC slot | | | | | |
| Brightfield | 5-position Nosepiece for Brightfield objective lens with DIC slot | | | / | | |
| Brightfield/ Darkfield | / | | | 5-position Nosepiece for Brightfield, Darkfield objective lens with DIC slot | | |
| Objectives | 5X/0.15 W.D 20mm, 10X/0.3 W.D 12mm, 20X/0.45 W.D 3mm, 50X/0.8 W.D 1mm, 100X/0.9 W.D 0.5mm (Optional) | | | | | |
| Plan S-APO | 5X/0.15 W.D 20mm, 10X/0.3 W.D 12mm, 20X/0.45 W.D 3mm, 50X/0.8 W.D 1mm, 100X/0.9 W.D 0.5mm (Optional) | | | / | | |
| Plan S-APO BD | / | | | 5X/0.15 W.D 20mm , 10X/0.3 W.D 12mm, 20X/0.45 W.D 3mm, 50X/0.8 W.D 1mm, 100X/0.9 W.D 0.5mm (Optional) | | |
| Base unit - Focus | Stroke range: 29.5 mm / Coarse and Fine focusing knob. | | | | | |
| | Coarse: 17.7 mm/revolution / Fine: 0.1 mm/revolution (1 µm scale) | | | | | |
| | Upper limit stopper, Torque adjustment ring | | | | | |
| Base unit - Electronics | Integrated power supply for light adjustment / LED voltage indicator / IL switch and ECO switch | | | | | |
| Mechanism | - | High-resolution 5-phase stepping motor, Long cross-roller guide system | - | - | High-resolution 5-phase stepping motor, Long cross-roller guide system | - |
| Stroke Distance | - | 30 mm | - | - | 30 mm | - |
| Resolution | - | 0.01µm | - | - | 0.01µm | - |
| Repeatability | - | 0.5µm | - | - | 0.5µm | - |
| Max Speed | - | 1.4 mm/sec | - | - | 1.4 mm/sec | - |
| Dimensions | - | 240(W) X 157(D) X 202.5 (H) mm | - | - | 240(W) X 157(D) X 202.5 (H) mm | - |
| Weight | - | 5 kg | - | - | 5 kg | - |
| Load capacity | - | 15 kg | - | - | 15 kg | - |
| BF/DF | / | | | Kohler illumination system / Brightfield / Darkfield, Normaski DIC, simple Polarized | | |
| Light source | 12V 100W halogen / 15 W LED | | | | | |
| Stage | Motorized | | | | | |