Inverted Metallurgical Microscope - Trinocular LED Reflected Light Microscope - 5X-50X, FN 22

Model **MSMSC-M60XSWISS** | Brand **Master Science**





The Master Science Inverted Metallurgical Microscope combines an infinity-corrected optical system with high-definition LED reflected illumination. Its full-spectrum white light source has a very long life and a constant colour temperature, so images look the same from one session to the next.

KEY HIGHLIGHTS

- Suited to large specimens
- Consistent colour
- Sharp, well-corrected images
- Saves energy
- Polarized light included

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

Scan to view online

Overview

Brightfield and polarizing observation are both supported, and the open stage makes the Master Science Inverted Metallurgical Microscope well suited to analysing large metallic specimens. An ECO function switches the light off automatically, and the stand also has a voice broadcast function.

For an upright stand with transmitted light as well, see the Master Science trinocular metallurgical microscope.

Key Benefits

Suited to large specimens
: the Master Science Inverted Metallurgical Microscope takes bulky metallic samples on its stage.

Consistent colour
: full-spectrum LED with constant colour temperature.

Sharp, well-corrected images
: semi-apochromatic metallurgical objectives.

Saves energy
: ECO automatic light-off.

Polarized light included
: polarization kit supplied with the epi-illuminator.

Technical Specifications

GENERAL

General	Specifications of the Master Science Inverted Metallurgical Microscope are given below.
Brand	Master Science
Model Number	MSMSC-M60XSWISS
SKU	MSMSC-M60XSWISS
Main Frame	Infinity-corrected optical system, with ECO automatic light-off and voice broadcast function
Observation Tube	Fixed trinocular head with high eye point; interpupillary distance 50-75 mm; light split 100/0 and 0/100
Viewing Head	Siedentopf head, inclined at 45°
Eyepiece	Large field WF10X / FN 22, with adjustable diopter
Objective 5X	Semi-apochromatic brightfield metallurgical, Plan Fluor EPI 5X/0.15, W.D. 20 mm
Objective 10X	Semi-apochromatic brightfield metallurgical, Plan Fluor EPI 10X/0.3, W.D. 11 mm
Objective 20X	Semi-apochromatic brightfield metallurgical, L Plan 20X/0.45, W.D. 3 mm
Objective 50X	Semi-apochromatic brightfield metallurgical, L Plan 50X/0.8, W.D. 1 mm
Nosepiece	Inward-facing quintuple nosepiece; ball-bearing positioning; anti-fungus treatment
Stage	X-Y mechanical metallographic stage, with water droplet plate
Focusing	Coaxial coarse and fine adjustment with locking and limit device; low-position coaxial focusing knob; fine division 2 µm
Epi-illumination System	3 W full-spectrum white LED, continuously adjustable brightness; polarization kit; aperture diaphragm, field diaphragm and filter holder
Lamp colour shifts as it ages or dims	: the LED keeps a constant colour temperature.

COMMON PROBLEMS THIS MICROSCOPE SOLVES

Common Problems This Microscope Solves	Metallographic inspection has some recurring practical problems.
Common Problems This Microscope Solves	Large or heavy parts do not fit under an upright objective:: the specimen rests on top of the stage instead.
Light left on between users	: ECO mode turns it off automatically.
Grain structure hard to distinguish in plain brightfield	: the polarization kit adds polarized light observation.

Applications

The Master Science Inverted Metallurgical Microscope is used for: Analysis of large metallic specimens Metallographic structure examination Materials quality control Teaching and research laboratories

Optics and Illumination

- Infinity-corrected optical system with high-definition LED reflected illumination
- Full-spectrum white light source with ultra-long lifespan and constant colour temperature
- Brightfield and polarizing observation
- Aperture diaphragm, field diaphragm and filter holder

Stand

- Fixed trinocular head with high eye point and adjustable-diopter eyepieces
- Inward-facing quintuple nosepiece with ball-bearing positioning and anti-fungus treatment
- Low-position coaxial focusing knob with locking and limit device
- ECO automatic light-off and voice broadcast function