Blue LED Fluorescence Microscope - Trinocular Infinity Plan Microscope - 4X-100X, FN 22

Model **MSMSC-F31SWISS** | Brand **Master Science**





The Master Science LED Fluorescence Microscope pairs an infinity optical system with a blue LED excitation source that gives sharp, high-contrast fluorescence images across the whole field of view. For ordinary brightfield work, the Abbe condenser with iris diaphragm improves specimen visibility and contrast.

KEY HIGHLIGHTS

- Crisp fluorescence images
- Flat, colour-corrected field
- Two methods in one stand
- Camera ready
- Works on any mains

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

Good imaging and simple handling make the Master Science LED Fluorescence Microscope a common choice in medical diagnostics, education and biological research. The trinocular head carries a 0.5X C-mount adapter for attaching a camera.

For multi-channel fluorescence with a six-position turret, see the Master Science LED fluorescence microscope.

Key Benefits

Crisp fluorescence images
: the Master Science LED Fluorescence Microscope uses a high-contrast LED excitation source.

Flat, colour-corrected field
: infinity plan achromatic objectives.

Two methods in one stand
: fluorescence and Kohler brightfield.

Camera ready
: trinocular tube with 0.5X C-mount adapter.

Works on any mains
: AC 100-240 V input.

Technical Specifications

GENERAL

General	Specifications of the Master Science LED Fluorescence Microscope are given below.
Brand	Master Science
Model Number	MSMSC-F31SWISS
SKU	MSMSC-F31SWISS
Observation Tube	Tilting trinocular, interpupillary distance 53-75 mm
Viewing Head	Siedentopf head, inclined at 30°
Eyepiece	Wide field WF10X / FN 22 mm
Objective 4X	Infinity plan achromatic 4X/0.1, W.D. 21.5 mm
Objective 10X	Infinity plan achromatic 10X/0.25, W.D. 7.5 mm
Objective 40X	Infinity plan achromatic 40X/0.65, W.D. 0.65 mm
Objective 100X	Infinity plan achromatic 100X/1.25, W.D. 0.185 mm
Nosepiece	Inward quadruple nosepiece
Stage	Double-layer mechanical stage, 210 x 140 mm; moving range 76 x 50 mm
Focusing	Coaxial coarse and fine adjustment with tension control and limit stop; fine division 2 µm; coarse stroke 40 mm per rotation; fine stroke 0.2 mm per rotation; focusing range 24 mm
Condenser	Abbe N.A. 1.25 with iris diaphragm
Transmitted Illumination	Kohler illumination, white LED, adjustable brightness
Fluorescence Illumination	Blue LED; EF 420-480 nm / DM >500 nm / BF >510 nm
Camera Port	0.5X C-mount adapter
Optics	Infinity optical system
Power Supply	AC 100-240 V, 50-60 Hz

COMMON PROBLEMS THIS MICROSCOPE SOLVES

Common Problems This Microscope Solves	Entry into fluorescence work is often held back by a few practical issues.
Uneven fluorescence across the view	: LED excitation illuminates the entire field.
Slides struck by the objective	: a focus limit stop protects them.
No way to document results	: the C-mount port accepts a camera.
Need for other contrast methods later	: polarizing, dark field and phase contrast attachments are optional.

The Master Science LED Fluorescence Microscope is widely used in

Medical diagnostics

Education

Biological research

Optics

- Infinity optical system
- LED excitation source for sharp, high-contrast fluorescence across the field of view
- Abbe condenser enhances visibility and contrast in brightfield
- Siedentopf trinocular head inclined at 30°

Mechanics

- Inward quadruple nosepiece
- Double-layer mechanical stage with 76 x 50 mm travel
- Coaxial coarse and fine focusing with tension adjustment and limit stop
- User-friendly operation

Optional Accessories

- Polarizing attachment
- Dark field attachment
- Phase contrast attachment