Smart Biological Microscope - Coded Nosepiece Microscope - F.N. 23 Eyepieces - ECO Sensing

Model **MSMSC-B45SWISS** | Brand **Master Science**









The Master Science Smart Biological Microscope adds intelligent control to an infinity-corrected trinocular microscope. A coded quintuple nosepiece recognises the objective in use and restores its saved brightness, while an integrated LCD shows magnification, light level, voice status and ECO mode at a glance.

KEY HIGHLIGHTS

- Right light every time
- Energy saving
- Clear status
- Wide field of view
- Future-ready

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

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Overview

ECO sensing switches the light off when the user steps away and back on when they return, and the stand can be powered from an external power bank for flexible use.

Key Benefits

Right light every time
the Master Science Smart Biological Microscope remembers brightness for each objective.

Energy saving
ECO sensing turns the lamp off when nobody is at the microscope.

Clear status
the LCD shows current magnification and light settings.

Wide field of view
F.N. 23 eyepieces show more of the specimen.

Future-ready
upgrades to fluorescence and motorised systems are possible.

For a lighter classroom model, see the Master Science trinocular biological microscope.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSMSC-B45SWISS
SKU	MSMSC-B45SWISS
Viewing Head	Siedentopf trinocular, 30° inclined
Interpupillary Distance	50 to 75 mm
Eyepieces	WF10X / F.N. 23, diopter adjustable
Objectives	Plan achromatic 4X, 10X, 40X, 100X (others optional)
Nosepiece	Inward quintuple, coded, with brightness memory per objective
Stage	Mechanical, 232 × 158 mm, travel 80 × 50 mm
Focusing	Coaxial coarse and fine; range 25 mm; fine division 0.002 mm
Condenser	Abbe N.A. 1.1
Illumination	3 W LED, adjustable colour temperature
Smart Functions	ECO auto-off/on sensing; optional voice announcement of magnification

OPTICAL PERFORMANCE	
Optical System	Infinity-corrected; brightfield (upgradable to phase contrast, fluorescence, darkfield)
Lamps left on all day	ECO sensing saves energy and LED life.

DISPLAY & DATA	
Display	Integrated LCD: magnification, brightness, voice and ECO status
Control Interface	USB programmable control

POWER	
Power	Mains or external power bank
No mains power on site	power bank operation is supported.

COMMON LABORATORY PROBLEMS AND HOW THIS MICROSCOPE HELPS	
Common Laboratory Problems and How This Microscope Helps	How the Master Science Smart Biological Microscope improves routine work:
Readjusting light after every objective change	brightness memory restores it automatically.
Unsure which objective is in use	the LCD and voice prompt confirm it.
Limited field of view	F.N. 23 eyepieces widen the image.

Applications

The Master Science Smart Biological Microscope is used for

Clinical and hospital laboratories Pathology and cytology Microbiology and cell culture checks University teaching labs Research institutes

Smart Control

- Coded nosepiece with brightness memory
- Integrated LCD status screen
- ECO presence sensing
- Optional voice announcement

Optics

- Infinity-corrected plan achromatic objectives
- F.N. 23 wide-field eyepieces
- Siedentopf trinocular head

Illumination and Power

- 3 W LED with adjustable colour temperature
- Power bank operation
- USB programmable control

Optional Accessories

- Additional objective types and magnifications
- Phase contrast, fluorescence and darkfield upgrades
- Voice broadcast function