Teaching Microscope - Binocular Student Microscope - 4X-100X Achromatic - LED Illumination

Model **MSMSC-T08BSWISS** | Brand **Master Science**





The Master Science Teaching Microscope is a binocular biological microscope built for classrooms and school laboratories where students look at slides every day. It uses a finite optical system, a Siedentopf binocular head and four achromatic objectives from 4X to 100X, so one instrument covers whole-mount specimens, tissue sections and oil-immersion work on stained cells.

KEY HIGHLIGHTS

- Comfortable binocular viewing
- Full magnification range
- Cool, steady light
- Precise slide handling

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

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Overview

Light comes from an LED source with continuous brightness control, which keeps the stage cool during long practical sessions. With coaxial coarse and fine focusing and a double-layer mechanical stage, the Master Science Teaching Microscope is easy for first-time users to set up and keep in focus.

> For research work that needs infinity optics and Köhler illumination, see our trinocular biological microscope.

> Classroom microscopes take heavy daily use. The Master Science Teaching Microscope is designed around the common problems teachers face:

Overview

- LED light source with continuous brightness adjustment
- Abbe condenser with N.A. 1.25
- Wide-range 100-240 V power input

Key Benefits

Comfortable binocular viewing
The Siedentopf head lets each student set the eyepiece distance quickly, which reduces eye strain during long lab periods.

Full magnification range
Objectives from 4X to 100X take a class from locating a specimen to observing cell detail without changing instruments.

Cool, steady light
The dimmable LED gives even illumination and does not heat the slide the way a halogen bulb can.

Precise slide handling
The double-layer stage moves the slide smoothly in two directions, so small structures are easy to centre.

Technical Specifications

GENERAL

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Viewing Head	Siedentopf binocular head
Eyepieces	WF10X (WF16X optional)
Objectives	Achromatic 4X, 10X, 40X, 100X
Nosepiece	Quadruple nosepiece
Stage	Double-layer mechanical stage, 105 × 115 mm, travel range 60 × 20 mm
Condenser	Abbe condenser, N.A. 1.25
Focusing	Coaxial coarse and fine focus, fine division 0.01 mm, focus range 20 mm
Illumination	LED, brightness adjustable
Power Supply	100-240 V AC, 50/60 Hz

OPTICAL PERFORMANCE

Optical System	Finite distance optical system
Optical Coating	Transmittance ≥ 95%
Hot or dim lamps	The adjustable LED stays cool and gives consistent brightness across the class.

DIMENSIONS & WEIGHT

Package Size (W × D × H)	340 × 280 × 450 mm

PROBLEMS THE MASTER SCIENCE TEACHING MICROSCOPE SOLVES

Students struggling to focus	Coaxial coarse and fine knobs with a 0.01 mm fine step make it easier for beginners to reach a sharp image.
Eye fatigue with monocular heads	Binocular viewing with adjustable spacing makes long practical sessions more comfortable.
Lost specimens on the stage	The mechanical stage holds the slide firmly and moves it in controlled steps.

Applications

The Master Science Teaching Microscope suits
School and college biology laboratories Cytology and histology teaching Routine observation of stained slides and tissue sections Student practical exams and demonstrations Training laboratories in colleges and institutes

Optics

- Finite distance optical system
- Coated optics with transmittance of 95% or more
- Achromatic objectives 4X, 10X, 40X and 100X on a quadruple nosepiece

Mechanics

- Siedentopf binocular viewing head
- Double-layer mechanical stage, 105 × 115 mm
- Coaxial coarse and fine focusing with 0.01 mm fine division and 20 mm range

Standard Accessories Included

- Binocular microscope body with Siedentopf head
- WF10X eyepieces
- Achromatic objectives 4X, 10X, 40X, 100X
- Abbe condenser
- LED illumination with power supply

Optional Accessories

- WF16X eyepieces
- Immersion oil
- Dust cover
- Prepared slide sets