# Binocular Biological Microscope - Siedentopf Head Lab Microscope - 40X to 1000X - LED

Model **MSMSC-B208SWISS** | Brand **Master Science**







The Master Science Binocular Biological Microscope is a compound microscope for routine slide work in teaching, clinical and research laboratories. Its Siedentopf binocular head is inclined at 30° and adjusts for interpupillary distances from 55 to 75 mm, so users of different heights can view comfortably.

KEY HIGHLIGHTS

- Comfortable viewing
- Bright, cool light
- Precise focusing
- Room to grow
- Bright transmission

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

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www.themsci.com

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## Overview

Standard achromatic objectives cover 4X to 100X, giving 40X to 1000X total magnification with WF10X eyepieces. A 3 W LED with adjustable brightness lights the specimen through an Abbe NA1.25 condenser.

Specifications of the Master Science Binocular Biological Microscope (standard configuration; * marks options):

## Key Benefits

**Comfortable viewing**
the Master Science Binocular Biological Microscope has a Siedentopf head at 30°.

**Bright, cool light**
3 W LED with long life and adjustable brightness.

**Precise focusing**
fine focus graduations of 0.002 mm.

**Room to grow**
phase contrast, dark field and infinity optics as options.

**Bright transmission**
optical coating with ≥ 95 % transmittance.

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## Technical Specifications

### GENERAL

| | |
|---|---|
| Brand | Master Science |
| Model Number | MSMSC-B208SWISS |
| SKU | MSMSC-B208SWISS |
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| Viewing Head | Siedentopf binocular, inclined 30°, interpupillary 55 to 75 mm |
| Eyepieces | WF10X/18 mm (*WF10X/20 mm) |
| Objectives | Achromatic 4X, 10X, 40X, 100X (*20X; *plan achromatic, plan phase or infinity plan achromatic) |
| Nosepiece | Quadruple (*quintuple) |
| Stage | Double-layer mechanical stage 140 × 135 mm, travel 75 × 50 mm (*heating module) |
| Condenser | Abbe NA1.25 with iris diaphragm and filter |
| Focusing | Coaxial coarse and fine; fine division 0.002 mm; coarse 37.7 mm per turn; fine 0.2 mm per turn; range 22 mm |
| Illumination | 3 W LED, adjustable (*6 V 20 W halogen) |

### OPTICAL PERFORMANCE

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|---|---|
| Optical System | Finite (*infinity optical system) |
| Optical Coating | Transmittance ≥ 95 % |
| Hot halogen lamps | LED illumination. |

### POWER

| | |
|---|---|
| Power Supply | 100 to 240 V AC, 50/60 Hz |
| Losing focus at high power | fine focus with 0.002 mm steps. |

### DIMENSIONS & WEIGHT

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|---|---|
| Package Dimensions | 370 × 260 × 490 mm |
| Gross Weight | 6.5 kg |

### COMMON LABORATORY PROBLEMS AND HOW THIS MICROSCOPE HELPS

| | |
|---|---|
| Common Laboratory Problems and How This Microscope Helps | How the Master Science Binocular Biological Microscope makes slide work easier: |
| Eye strain with monocular viewing | binocular Siedentopf head. |
| Outgrowing a basic microscope | optional phase and dark field. |

## Applications

The Master Science Binocular Biological Microscope is used for: Teaching laboratories Medical and clinical laboratories Biological research laboratories Routine observation of prepared slides Phase contrast and dark field work (with options)

## Optics

- Siedentopf binocular head
- WF10X eyepieces
- Achromatic 4X to 100X objectives

## Stage and Focus

- 140 × 135 mm mechanical stage
- Coaxial coarse and fine focus
- 22 mm focusing range

## Illumination

- 3 W LED, adjustable
- Abbe NA1.25 condenser
- Iris diaphragm and filter

## Optional Accessories

- Turret phase contrast kit
- Dark field attachment
- 360° rotatable viewing head
- 20X objective and quintuple nosepiece
- Plan achromatic or infinity objectives
- Halogen illumination
- Stage heating module