Manual Visible Spectrophotometer - Single Beam Lab Spectrophotometer - 325-1000 nm - 4 nm Bandwidth

Model **MSSP-MV5000SWISS** | Brand **Master Science**





The Master Science Manual Visible Spectrophotometer is a basic single-beam model with manual wavelength setting, intended for routine analysis and general experiments. It covers 325 to 1000 nm with a 4 nm spectral bandwidth.

KEY HIGHLIGHTS

- One-button blanking
- Direct read-out
- Saves bench space
- Works on varied mains
- Results on paper or PC

AT A GLANCE

325 to 1000 nm WAVELENGTH RANGE	**4 nm** SPECTRAL BANDWIDTH
±0.5% T PHOTOMETRIC ACCURACY	**±2 nm** WAVELENGTH ACCURACY

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

support@themsci.com
www.themsci.com

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Overview

A microprocessor sets zero and 100% T at the push of one button, and the LCD reads transmittance, absorbance, concentration or factor directly. The compact body still provides a 120 mm wide sample compartment.

> For automatic wavelength setting, see the Master Science single beam VIS spectrophotometer.

Key Benefits

One-button blanking
the Master Science Manual Visible Spectrophotometer sets zero and 100% T automatically.

Direct read-out
four display modes, no conversion tables.

Saves bench space
compact housing.

Works on varied mains
85 to 250 V input.

Results on paper or PC
printer and USB outputs.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSSP-MV5000SWISS
SKU	MSSP-MV5000SWISS
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Stability	±0.002 A/h at 500 nm
Grating	1200 lines/mm

OPTICAL PERFORMANCE

Optical System	Single beam
Wavelength Range	**325 to 1000 nm**
Wavelength Setting	**Manual**
Wavelength Accuracy	**±2 nm**
Wavelength Repeatability	**1 nm**
Spectral Bandwidth	4 nm
Photometric Accuracy	**±0.5% T**
Photometric Repeatability	≤0.2% T
Photometric Range	**-0.3 to 3 A; 0-200% T; 0-9999 C**
Stray Light	≤0.2% T
Detector	Silicon photodiode
Light Source	Tungsten halogen lamp
Photometric Modes	T, A, C, F

DISPLAY & DATA

Display	LCD
Output	USB port and parallel port (printer)

POWER

Power	AC 85-250 V
Unstable mains voltage	wide-range power input.

DIMENSIONS & WEIGHT

Gross Weight	11 kg
Instrument Dimensions (W×D×H)	420 × 280 × 180 mm
Package Dimensions (W×D×H)	600 × 470 × 320 mm

COMMON PROBLEMS AND HOW THIS SPECTROPHOTOMETER HELPS

Common Problems and How This Spectrophotometer Helps	How the Master Science Manual Visible Spectrophotometer covers basic photometry needs:
Limited equipment budget	basic low-cost model.
Manual zero adjustment	one-button auto zero and 100% T.
Converting T to A by hand	direct display of four modes.

Applications

The Master Science Manual Visible Spectrophotometer is used for: Routine analysis General laboratory experiments Concentration measurements in the visible range

Control

- Microprocessor controlled
- Auto zero and auto 100% T
- LCD read-out

Optics

- 1200 lines/mm grating monochromator
- Long optical path
- Low stray light

Data Output

- USB connection to PC software
- Parallel port for a micro printer

Design

- Compact and easy to carry
- 120 mm wide sample compartment

Standard Accessories Included

- Spectrophotometer, 1 set
- 1 cm glass cuvettes, 4 pcs
- Power cord, 1 pc
- User manual, 1 pc
- Black block, 1 pc
- Dust cover, 1 pc