UV-Vis Spectrophotometer - Double Beam Lab Analyzer - 190-1100 nm - 2 nm Bandwidth

Model **MSSP-MUV25SWISS** | Brand **Master Science**











The Master Science UV-Vis Spectrophotometer is a compact double-beam instrument for everyday absorbance, transmittance and concentration measurements between 190 and 1100 nm. A fixed 2 nm spectral bandwidth, quality deuterium and tungsten-halogen lamps and a silicon photodiode detector give dependable results for teaching, QC and research labs.

KEY HIGHLIGHTS

- Reliable everyday results
- Works without a PC
- Grows with your methods
- No lost data
- Robust electronics

AT A GLANCE

190 to 1100 nm WAVELENGTH RANGE	**2.0 nm** SPECTRAL BANDWIDTH
±0.3 %T PHOTOMETRIC ACCURACY	**±0.5 nm** WAVELENGTH ACCURACY

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

The 7-inch color touchscreen runs all common measurement modes without a computer, and a wide choice of cell holders and changers lets the same unit grow with the laboratory.

> Labs that need finer resolution can compare this model with the Master Science double beam UV-Vis spectrophotometer with 0.5-6 nm variable bandwidth.

Key Benefits

Reliable everyday results
an optimised optical layout and quality light sources keep stray light at or below 0.03 %.

Works without a PC
all measurement modes run and display directly on the 7-inch touchscreen.

Grows with your methods
the Master Science UV-Vis Spectrophotometer accepts cuvette changers, long-path holders, water-bath holders and film holders.

No lost data
parameters and results are saved automatically if power fails, and files export to USB.

Robust electronics
an LSI-based circuit design improves reliability and expansion options.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSSP-MUV25SWISS
SKU	MSSP-MUV25SWISS
PC Control	Supported
Power Supply	AC 220 V / 50 Hz or 110 V / 60 Hz, 120 W

OPTICAL PERFORMANCE

Wavelength Range	**190 to 1100 nm**
Wavelength Accuracy	**±0.5 nm**
Wavelength Repeatability	**0.2 nm**
Spectral Bandwidth	2.0 nm
Photometric Accuracy	**±0.3 %T**
Photometric Repeatability	0.2 %T
Stray Light	≤ 0.03 %T
Baseline Stability	0.001 A/h at 500 nm
Photometric Range	**-4 to 4 A**
Photometric Modes	T, A, C, E
Detector	Silicon photodiode
Light Sources	Deuterium lamp and tungsten halogen lamp
High absorbance samples	low stray light keeps readings accurate.

DISPLAY & DATA

Display	7-inch color touchscreen LCD
Data Storage	USB flash drive; power-off data protection
Data loss after power cuts	power-off protection saves parameters and results.

DIMENSIONS & WEIGHT

Net Weight	16 kg
Dimensions (W × D × H)	510 × 390 × 220 mm

COMMON LABORATORY PROBLEMS AND HOW THIS SPECTROPHOTOMETER HELPS

Common Laboratory Problems and How This Spectrophotometer Helps	How the Master Science UV-Vis Spectrophotometer helps with typical lab problems:
Inconsistent readings between operators	preset measurement modes on the touchscreen standardise each test.
Limited sample formats	optional holders cover micro, long-path, film and tube samples.
Slow reporting	USB export moves results straight to a PC.

The Master Science UV-Vis Spectrophotometer is suitable for

- **Biological research and biotechnology**
- **Pharmaceutical analysis**
- **Food safety and environmental testing**
- **Clinical and public health laboratories**
- **University and college teaching**

Measurement Modes

- Wavelength scanning and time scanning
- Multi-wavelength and dual-wavelength determination
- Optional three-wavelength, multi-order derivative and DNA/protein analysis

Hardware

- 7-inch color touchscreen with English interface
- Silicon photodiode detector
- Deuterium and tungsten halogen lamps

Data Handling

- USB flash drive storage and transfer
- Automatic save on power loss
- PC control for advanced work

Standard Accessories Included

- Spectrophotometer main unit – 1 set
- 1 cm glass cuvettes – 4 pcs
- 1 cm quartz cuvettes – 2 pcs
- Dust cover – 1 pc
- Power cord (1 m) – 1 pc
- User manual – 1 pc
- Software suite – 1 set

Optional Accessories

- 8-position automatic cuvette changer
- 5-position automatic cuvette changer
- Film holder and rotating film holder
- Thermal printer
- Water bath cuvette holder
- Micro cuvette holder
- 4-position holder for 50 mm path length cuvettes
- Circular tube holder
- Temperature-controlled injection system
- Specular reflection accessory