# 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

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## 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

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|---|---|
| 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

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|---|---|
| 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

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|---|---|
| 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