Visible Spectrophotometer - Single Beam Touch Screen Photometer - 325-1100 nm - 2 nm Bandwidth

Model **MSSP-IV2SSWISS** | Brand **Master Science**









The Master Science Visible Spectrophotometer is a single-beam instrument built around an ARM processor core for routine quantitative analysis. It covers 325 to 1100 nm with a 2 nm spectral bandwidth and sets the wavelength automatically.

KEY HIGHLIGHTS

- Fast setup
- Results without manual calculation
- Flexible sample handling
- Data kept after power loss
- PC connection

AT A GLANCE

325 to 1100 nm WAVELENGTH RANGE	**2 nm** SPECTRAL BANDWIDTH
0.0-200.0% T; -0.301 to 4.000 A; 0.000-9999 C PHOTOMETRIC RANGE	**±1 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

A 7-inch colour touch screen shows results clearly and gives access to wavelength scanning, kinetic time scanning, linear regression and direct concentration read-out. The sample compartment takes cuvettes from 5 to 100 mm path length.

Key Benefits

Fast setup
the Master Science Visible Spectrophotometer sets wavelength, zero and full scale automatically.

Results without manual calculation
direct concentration read-out with factor setting.

Flexible sample handling
cuvettes from 5 to 100 mm.

Data kept after power loss
stored results, regression equations and correction parameters.

PC connection
USB port with data processing software.

For UV measurements, see the Master Science double beam UV-Vis spectrophotometer.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSSP-IV2SSWISS
SKU	MSSP-IV2SSWISS
Brand	Master Science
Model Number	MSSP-IV2SSWISS
SKU	MSSP-IV2SSWISS
Drift	≤0.003 Abs/h at 500 nm after 2 h warm-up
Noise	100% T ≤0.2% T; 0% T ≤0.1% T
Display	7-inch colour touch screen
Power	AC 220 V ±22 V, 50 Hz ±1 Hz, 100 W

OPTICAL PERFORMANCE

Optical System	Single beam
Monochromator	Czerny-Turner, 1200 lines/mm grating
Wavelength Range	**325 to 1100 nm**
Wavelength Accuracy	**±1 nm**
Wavelength Repeatability	**≤0.5 nm**
Spectral Bandwidth	2 nm
Photometric Accuracy	**±0.5% T; ±0.004 Abs (0-0.5 A); ±0.008 Abs (0.5-1 A)**
Photometric Repeatability	≤0.2% T; 0.002 Abs (0-0.5 A); 0.004 Abs (0.5-1 A)
Photometric Range	**0.0-200.0% T; -0.301 to 4.000 A; 0.000-9999 C**
Stray Light	≤0.1% T at 360 nm ($NaNO_2$)
Baseline Flatness	≤±0.003 A (335-1090 nm)
Scanning Speed	Fast, medium, slow
Detector	Silicon photocell
Manual wavelength dialling errors	**automatic wavelength drive.**
Low-absorbance samples	long-path cuvette holders up to 100 mm.

DIMENSIONS & WEIGHT

Net / Gross Weight	18 kg / 21.6 kg
Dimensions (L×W×H)	475 × 365 × 200 mm
Package Dimensions (L×W×H)	630 × 535 × 405 mm

COMMON PROBLEMS AND HOW THIS SPECTROPHOTOMETER HELPS

Common Problems and How This Spectrophotometer Helps	How the Master Science Visible Spectrophotometer simplifies routine photometry:
Re-entering calibration after a restart	parameters retained at shut-down.
Hand-copied results	printer and USB data transfer.

The Master Science Visible Spectrophotometer is used in

- **Medicine and health laboratories**
- **Clinical examination and biochemistry**
- **Petrochemical analysis**
- **Environmental protection**
- **Quality control departments**
- **Colleges and universities**

Operation

- 7-inch multi-colour touch screen
- Automatic wavelength setting
- Automatic T/A changeover

Measurement Functions

- Wavelength scanning
- Kinetic time scanning
- Linear regression
- Peak detection
- Scheduled printing

Data

- USB communication port
- Professional data processing and mapping software
- Built-in thermal printer option for test reports
- Power-off protection for fast re-initialisation

Standard Accessories Included

- Software
- User manual, 1 pc
- 1 cm glass cuvettes, 4 pcs
- Power cable, 1 pc
- Fuses, 2 pcs

Optional Accessories

- 50 mm cuvette holder
- 100 mm cuvette holder