Single Beam VIS Spectrophotometer - Visible Spectrophotometer with LCD - 320-1100 nm - 2 nm Band

Model **MSSP-LV723SSWISS** | Brand **Master Science**









The Master Science Single Beam VIS Spectrophotometer is a compact bench instrument for qualitative and quantitative measurements from 320 to 1100 nm. A 32-bit ARM processor and a 128 × 64 LCD handle stand-alone work without a computer.

KEY HIGHLIGHTS

- Works without a PC
- Portable results
- Plug-and-play PC link
- Light and compact
- Stable readings

AT A GLANCE

320 to 1100 nm WAVELENGTH RANGE	**2 nm** BANDWIDTH
±0.5% T PHOTOMETRIC ACCURACY	**±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

Offline functions include multi-wavelength tests, standard curve fitting, coefficient entry and concentration measurement, and results are saved straight to a USB flash drive. Connected to a PC, the software adds spectrum, time and kinetic scanning.

Key Benefits

Works without a PC
the Master Science Single Beam VIS Spectrophotometer runs quantitative methods on its own.

Portable results
data saved to a flash drive in spreadsheet-friendly format.

Plug-and-play PC link
USB needs no parameter setup.

Light and compact
8 kg body.

Stable readings
automatic wavelength detection and calibration.

A touch-screen option is the Master Science visible spectrophotometer.

Technical Specifications

GENERAL

General	Specifications of the Master Science Single Beam VIS Spectrophotometer:
Brand	Master Science
Model Number	MSSP-LV723SSWISS
SKU	MSSP-LV723SSWISS
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Model Number	MSSP-LV723SSWISS
SKU	MSSP-LV723SSWISS
Stability	≤0.0008 A
Noise	≤0.5% T (100% T); ≤0.2% T (0% T)

OPTICAL PERFORMANCE

Wavelength Range	**320 to 1100 nm**
Wavelength Accuracy	**±1 nm**
Wavelength Repeatability	**≤0.5 nm**
Bandwidth	2 nm
Photometric Accuracy	**±0.5% T**
Photometric Repeatability	≤0.2% T
Photometric Range	**0.0-200% T; -0.3 to 4 A**
Stray Light	≤0.1% T
Baseline Flatness	±0.002 A

DISPLAY & DATA

Display	128 × 64 LCD
Outputs	USB-A (flash drive), USB-B (PC), serial port (printer)

DIMENSIONS & WEIGHT

Net / Gross Weight	8 kg / 10 kg
Instrument Dimensions (W×D×H)	370 × 357 × 220 mm
Package Dimensions (W×D×H)	450 × 430 × 320 mm

COMMON PROBLEMS AND HOW THIS SPECTROPHOTOMETER HELPS

Common Problems and How This Spectrophotometer Helps	How the Master Science Single Beam VIS Spectrophotometer fits everyday laboratory work:
No computer near the bench	full offline quantitative functions.
Copying readings by hand	flash drive export.
Serial port configuration trouble	USB connection without settings.
Limited bench space	370 × 357 mm footprint.

The Master Science Single Beam VIS Spectrophotometer is used in

- **Material research**
- **Pharmaceutical analysis**
- **Biochemical and clinical examination**
- **Water quality control**
- **Food inspection**

Offline Measurement

- Multi-wavelength test
- Standard curve fitting and measurement
- Standard coefficient equation entry
- Save and load of standard equations
- Data storage and printing

PC Software

- Spectrum, time and kinetic scanning
- Multi-wavelength analysis and formula calculation
- Peak and valley search
- Instrument calibration and performance verification

Hardware

- 32-bit ARM core processor
- High scanning speed
- USB and serial interfaces