Liquid NIR Spectrophotometer - Near Infrared Transmission Analyzer - 900-2500 nm - 8 nm Bandwidth

Model **MSSP-LIF430SWISS** | Brand **Master Science**





The Master Science Liquid NIR Spectrophotometer is a grating-monochromator instrument for fast, non-destructive analysis of oils, alcohol, beverages and other liquids. It works in transmission from 900 to 2500 nm.

KEY HIGHLIGHTS

- No sample preparation
- Sample stays intact
- Stable wavelength scale
- Automatic referencing
- Traceable conditions

AT A GLANCE

900 to 2500 nm WAVELENGTH RANGE	**8 nm** BANDWIDTH
±0.2 nm WAVELENGTH ACCURACY	**≤0.05 nm** WAVELENGTH REPEATABILITY

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

The procedure is short: fill the cuvette, place it on the sample platform and start the scan in the software. A spectrum is ready in about one minute, and with the matching NIR data model several components are reported at once.

For solids and powders, see the Master Science NIR spectrophotometer with integrating sphere.

Key Benefits

No sample preparation
the Master Science Liquid NIR Spectrophotometer measures the liquid as it is.

Sample stays intact
non-destructive reading.

Stable wavelength scale
polystyrene standard filter monitoring.

Automatic referencing
built-in PTFE reference module.

Traceable conditions
temperature and humidity saved with each spectrum.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSSP-LIF430SWISS
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SKU	MSSP-LIF430SWISS
Measurement Mode	Transmission
Noise	≤0.0005 Abs
Analysis Time	1 minute or above
Output	USB 2.0
Power Supply	90-250 V, 50/60 Hz

OPTICAL PERFORMANCE

Wavelength Range	**900 to 2500 nm**
Bandwidth	8 nm
Wavelength Accuracy	**±0.2 nm**
Wavelength Repeatability	**≤0.05 nm**
Stray Light	≤0.1%

ENVIRONMENT

Operating Temperature	5 to 35 °C
Operating Humidity	5 to 85% RH

DIMENSIONS & WEIGHT

Dimensions	360 × 460 × 240 mm
Weight	12 kg

COMMON PROBLEMS AND HOW THIS ANALYZER HELPS

Common Problems and How This Analyzer Helps	How the Master Science Liquid NIR Spectrophotometer speeds up liquid testing:
Time-consuming chemical assays	spectrum in about one minute.
Sample lost to testing	non-destructive measurement.
One test per component	several components from a single scan.
Unknown measuring conditions	environment data logged automatically.

Use

- **Cuvette-based sampling**
- **Software-controlled scan**
- **Multiple components from one spectrum with a data model**

Applications

The Master Science Liquid NIR Spectrophotometer is used for
Oil analysis Alcohol analysis Beverage analysis Other liquid samples

Optics

- Grating monochromator
- Automatic reference calibration
- Wavelength monitoring

Data

- Ambient temperature and humidity monitoring
- USB connection

Standard Accessories Included

- Main instrument, 1 set
- Power cord, 1 pc
- Data processing software package, 1 set
- USB cable, 1 pc
- User manual, 1 pc
- Fuses (2 A), 2 pcs
- 1 cm quartz square sample cells, 1 pair
- 2 mm quartz micro sample cells, 1 pair