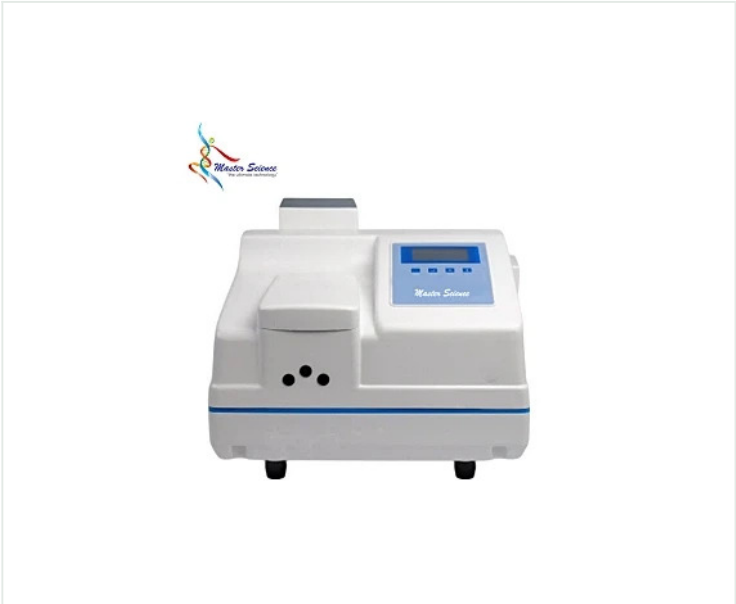
Filter Fluorescence Spectrophotometer - Emission Scanning Fluorometer - 365 nm Filter - 200-900 nm

Model **MSSP-LF96PSWISS** | Brand **Master Science**









The Master Science Filter Fluorescence Spectrophotometer excites the sample through a 365 nm filter and scans the emission from 200 to 900 nm with a Czerny-Turner grating monochromator. It works in two modes, fluorescence and luminous intensity.

KEY HIGHLIGHTS

- Quick look at unknowns
- Wide signal range
- PC optional
- Comparable results
- Stable light

AT A GLANCE

200 to 900 nm	10 nm
EMISSION WAVELENGTH RANGE	EMISSION BANDWIDTH

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

Wavelength scanning, time scanning for kinetics and quantitative analysis are all provided. A full emission spectrum can be taken in one second, and a pre-scan finds the emission peak of an unknown sample while skipping scatter and harmonic peaks.

> For scanning excitation as well, see the Master Science compact fluorescence spectrophotometer.

Key Benefits

Quick look at unknowns
the Master Science Filter Fluorescence Spectrophotometer pre-scans to locate the emission peak.

Wide signal range
17 gain stages from fast survey to precise scans.

PC optional
stand-alone intensity and concentration read-out.

Comparable results
normalised fluorescence values.

Stable light
long-life xenon lamp and power source.

Technical Specifications

GENERAL

General	Specifications of the Master Science Filter Fluorescence Spectrophotometer:
Brand	Master Science
Model Number	MSSP-LF96PSWISS
SKU	MSSP-LF96PSWISS
Brand	Master Science
Model Number	MSSP-LF96PSWISS
SKU	MSSP-LF96PSWISS
Excitation	365 nm filter as standard (200-900 nm available as options)
Sensitivity	S/N ≥150 (P-P), water Raman peak at 365 nm excitation
Linearity	≥0.995
Stability	Better than 1.5% per 10 min
Excitation Source	150 W xenon lamp
Gain	17 stages
Response Time	0.1 to 4 s, 6 stages
Power Supply	110-240 V AC, 50/60 Hz

OPTICAL PERFORMANCE

Emission Monochromator	C-T diffraction grating
Emission Wavelength Range	**200 to 900 nm**
Emission Bandwidth	10 nm

DISPLAY & DATA

Fluorescence Display Value	0.00 to 600.00
Data Transfer	USB 2.0

COMMON PROBLEMS AND HOW THIS INSTRUMENT HELPS

Common Problems and How This Instrument Helps	How the Master Science Filter Fluorescence Spectrophotometer supports trace analysis:
Unknown emission maximum	intelligent pre-scan.
Scatter peaks mistaken for fluorescence	automatic omission of scatter and harmonics.
Signals too weak or saturated	17-stage gain adjustment.
Results that differ between instruments	normalisation of fluorescence values.

The Master Science Filter Fluorescence Spectrophotometer is used in

- **Clinical analysis of biological specimens**
- **Pharmaceutical quality control and metabolite research**
- **Biochemistry**
  trace substances in biological material
- **Food industry**
  trace constituents

Environmental and pollution testing

Trace analysis in organic and inorganic chemistry

Measurement

- Wavelength scanning
- Time scanning for kinetic analysis
- Quantitative analysis
- Automatic skipping of scatter and harmonic peaks

Off-line Mode

- Fluorescence intensity measurement
- Direct concentration reading
- Auto zero
- Automatic background subtraction

On-line Mode

- Qualitative and quantitative software
- Data acquisition and analysis through USB 2.0

Standard Accessories Included

- Main instrument, 1 set
- 365 nm filter, pre-assembled, 1 pc
- Software package, 1 set
- Power cable, 1 pc
- USB cable, 1 pc
- Instruction manual, 1 copy
- Fuses 2 A, 2 pcs; 5 A, 2 pcs
- 10 mm quartz fluorescence cells, 1 pair

Optional Accessories

- Single-hole cell holder
- 200 µL micro centrifuge tube holder
- Micro capillary sample holder
- Semi-automatic sample introduction accessory
- Membrane, powder and jacketed sample accessories
- Other excitation filters, 200-900 nm