

Fluorescence Spectrophotometer with LED Excitation

This fluorescence spectrophotometer features a 1200 line diffraction grating and non-spherical reflecting mirrors for high sensitivity. Its LED excitation light source includes interchangeable filters and provides stable testing across a wide spectrum.



Overview

High-Performance Fluorescence Analysis

This fluorescence spectrophotometer utilizes a high-intensity LED cold light source and a 1200-line diffraction grating to deliver exceptional sensitivity and stability. Designed for both educational and laboratory environments, it features automatic background subtraction and an eight-stage sensitivity adjustment for precise measurements. The system's compact design, combined with its wide dynamic range and RS-232C connectivity, makes it an ideal solution for accurate quantitative and qualitative analysis of fluorescent substances.

Key Metrics

Detection Sensitivity

1 x 10⁻⁵

Quinine Sulfate Limit

0.995

Measurement Linearity

Optical Performance

Wavelength Ranges

Parameter	Range
Excitation Wavelength	250 ~ 600 nm
Emission Wavelength	360 ~ 650 nm

Bandwidth Specifications

- Excitation Bandwidth: 10/20 nm
- Emission Bandwidth: 12 nm

Wavelength Accuracy & Repeatability

- Emission Wavelength Accuracy: ± 2.0 nm
- Emission Wavelength Repeatability: ± 1.0 nm

Hardware & Design

Physical Dimensions

360 mm

Length

320 mm

Width

205 mm

Height

Light Source Type	High intensity LED cold light source
Optical System	C-T manually grating monochromator
Fluorescence Receiver	Original photomultiplier

Technical Features

Connectivity

RS-232C Serial Port • Data Processing Software Compatible

Power Requirements	220V / 50Hz, 110V / 60Hz, 35W Consumption
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