
FL3095 FLUORESCENCE SPECTROPHOTOMETER

Overview

The FL3095 Fluorescence spectrophotometer is fitted with a special diode array polychromator instead of the conventional emission monochromator and detector.

A Xenon light source in combination with an ultra-fast excitation monochromator allows the running of an excitation spectrum in millisecond timeframes.

Highly Flexible

The use of fiber-optics increases the flexibility of the system by allowing different measuring cells to be used. The cell itself can be positioned remotely to the measuring unit thus allowing, for example measurements in high-risk areas.

Two-dimensional Fluorescence

It is now possible to record emission spectra as a direct function of the excitation wavelength, effectively allowing two-dimensional fluorescence measurements.

Resolution of Mixtures

Simultaneous measurements at different wavelengths in order to obtain optimum results for individual substances in mixtures, especially in HPLC the ability to obtain both excitation and emission spectra can be used to characterise and check purity.

Fast Kinetic Applications

This ultra-fast system can be used for measurements in the area of fast kinetics and phosphorescence. The fiber-optic architecture supports the use of immersion probes for direct measurements in solutions or vessels.

Process Applications

In-situ process measurements using immersion probes and cells are easily possible given the possibility to measure remotely with fiber-optics.



Specifications

Light source	High pressure xenon lamp, ozone-free, 75W
Monochromator	Grating with 1302 lines/mm, driven either by galvanometer or servomotor
Bandwidth	8 nm using a 0.6 mm light guide
Detector	Polychromator with 256 elements
Excitation range	260 nm to 680 nm
Emission range	320 nm to 950 nm
Scanning speed	Maximum 140 nm/ms
Measuring modes	Fluorescence, Phosphorescence, Luminescence (Absorbance as a special option)
Scanning modes	Single measurement, continuous measurement, time scan (e.g. for reaction kinetics), wavelength scan, kinetic (e.g. phosphorescence)
All specifications may be subject to change for technical reasons.	

Ordering Information

89 001 76	Fluorescence Spectrometer FL3095 with high speed monochromator, diode array spectrometer, light guides, excitation: 260 nm – 680 nm, emission: 320 nm – 950 nm, 256 pixel
89 001 19	Fluorescence Spectrometer FL3095 SL with stepper motor monochromator, diode array spectrometer, light guides, excitation: 260 nm – 680 nm, emission: 320 nm – 950 nm, 256 pixel
51 553 74	FL3095 Software for data acquisition and control via LabView Software for Windows