

FluoroMax[®] 4

Supported By: Horiba Scientific

Horiba FluoroMax 4

The Horiba FluoroMax 4 spectrometer is an effective tool for measuring fluorescence of solids, liquids, powders and thin films. The instrument is easy to operate and is controlled by FluorEssence™ software with Origin® embedded for sophisticated data analysis.

Horiba FluoroMax 4 Specifications

Samples are illuminated by a 150 W xenon, continuous output, ozone-free lamp. The excitation monochromator has an optical range of 220 – 600 nm blazed at 330 nm. The emission monochromator has an optical range of 290 – 850 nm blazed at 500 nm. The monochromators can be independently or synchronously scanned for mixtures. The slit widths may be continuously adjusted through the software from 0 - 30 nm bandpass.

The FluoroMax 4 has two detectors. One is a calibrated photodiode reference detector to correct for intensity and temporal fluctuations in the source during excitation scans. The other detector is an R928P red-sensitive PMT used in photon counting mode with signal linearity up to 2×10^6 CPS. With a photon-counting detector, only the signals originating from your sample are measured, noise from the detector is rejected.

Measurement Modes for the Horiba FluoroMax 4

- fluorescence, chemi-, bio- and electroluminescence
- excitation, emission, synchronous scans
- 3D excitation/emission scans and contour mapping, kinetic scans
- quantitation and analysis through Origin®