



Fluorescence Spectrophotometer



FLUORESCENCE SPECTROPHOTOMETER LFS-100

The premium range of Fluorescence Spectrophotometer LFS-100 series from Labocon; offer unmatched reliability and productivity at wavelength range of 250-700nm.

Highly durable Xenon lamp offers higher signal to noise ratio as well as it can also drastically reduce the photo bleaching which actually increases the intactness of sample to produce high accuracy results.

The Data Collection and Analysis software offer a comprehensive solution for fast data collection and analysis such as scan, time drive, and ratio Data Collection directly from the application menu, which delivers maximum flexibility with better productivity

Our Fluorescence Spectrophotometer give you the low cost of ownership by offering an exceptionally long lifetime of 2.8 billion flashes and the lamp typically will be remain active up to next 10 years.

Features

- **Wavelength range:** 250-700nm
- **Sensitivity:** $S/N \geq 150$
- **Wavelength accuracy:** Offer wavelength accuracy at $\pm 1\text{nm}$ at spectral bandwidth of 10nm
- **Unparalleled detection Limit:** With 150 Watts Xenon lamp, it offer higher signal to noise ratio, which provide better capabilities for trace sample measurement.
- **Highly reliable optical performance:** The 1200 lines/mm Czerny Turner Diffraction Grating for the highest sensitivity, accuracy and reproducibility
- **Drastically reduced photobleaching of samples:** Unlike conventional light sources, the improved Xenon lamp minimizes photobleaching of samples, which maintains the integrity of the sample; hence delivers accurate and uncompromised results.
- **Easy software Interface:** Data Collection and Analysis software offers a comprehensive solution for data collection and analysis such as scan, time drive, and ratio Data Collection directly from the applications menu.
- **Outstanding durability and reliability:** It gives you the low cost of ownership by offering an exceptionally long lifetime of 2.8 billion flashes and the lamp typically will be remain active up to next 10 years which will save your money.

Additional Features

- **Model LFS-101 and LFS-102:**
 - Eight stage adjustable sensitivity, real time display of fluorescence reading with concentration print out

- RS232 interface
- Standard Accessories: Power cord, fuse, 10mm quartz fluorescence cuvette
- **Optional Accessories:**
 - 360-650nm interference optical filter
 - 10mm quartz fluorescence cuvette
 - Data processing software
 - Printer cable
 - Serial interface printer
- **Model LFS-103:**
 - Adjustable 10 stages can be chosen for emission spectrum scanning inclusive of high speed low S/N scanning and precise scanning
 - Standard Accessories: 365nm pre-assembled filter, software package, power cable, USB cable, fuse, 10mm quartz fluorescence sample cell
 - **Optional Accessories:**
 - 200-700nm interference optical filter
 - 10mm quartz fluorescence cell
 - Printer cable
 - Serial interface printer

Application

The Labocon Fluorescence Spectrophotometer's widest ranges are ideally suited for life science research such as cell-biology, immunology, enzymology and protein analysis



LFS-101



LFS-103

Specification

Model	LFS-101	LFS-102	LFS-103
Excitation Optical Filter	Interference optional filter of central wavelength at 365nm, optional central wavelength of 365nm, 420nm, 475nm, 525nm	Interference optional filter of central wavelength at 365nm, optional central wavelength of 365nm, 405nm, 470nm, 515nm	Interference optional filter of central wavelength at 365nm, optional interference filter of 25mm diameter of wavelength range 250-700nm
Excitation Wavelength Range	360-600nm		250-700nm
Emission Wavelength Range	360-650nm		200-900nm
Wavelength Accuracy	±2nm		±1nm
Wavelength Repeatability	≤1nm		≤0.5nm
Spectral Bandwidth	10nm		
Light Source	LED		Xenon Lamp
Monochromator	Czerny Turner Diffraction Grating		
Linearity	±3.0%		R ≥ 0.995
Stability	-	-	Better than 1.5% per 10min
Response Time	—		0.1-4 sec
Overall Dimension	450x420x280 mm		380x440x240mm
Power	40 W		190 W
Power Supply	220V 50Hz		
Weight (Net/Gross)	9/15 kg		14 kg
Catalog No.	9426141164	9426142164	9426143164



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