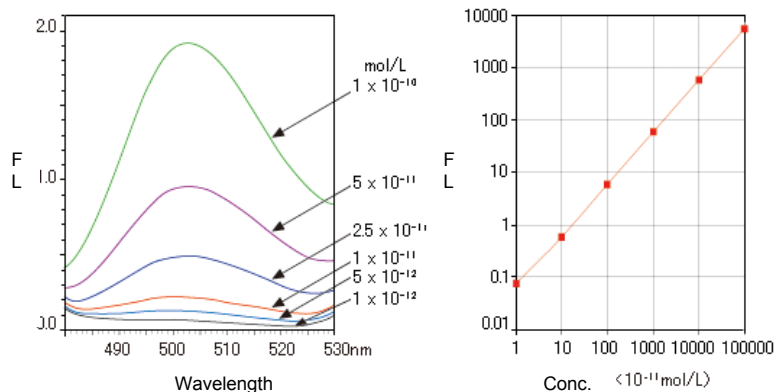


The Hitachi F-2700 Fluorescence Spectrophotometer

Now Offered with a Choice of **FREE** Thermostatted Cell Holder (w/stirring) **OR** Extended Range PMT and Spare Xe Lamp



The **NEW** F-2700 Fluorescence Spectrophotometer

The newest model of Hitachi's high-performance fluorescence systems

- **Local Control for Teaching and Routine Applications**
 - Built in memory (50 test parameters and 80 data sets)
 - Backup data transfer to PC through USB port (FL Solutions software required)
- **Advanced Functions under PC Control for Biotech, Environmental, and Material Research**
 - New functions available with FL Solutions (sold separately), including Real-time Auto Scale, Auto-Scale Exclusion, Log Scale for Calibration Curves, Scale Conversion using eV, nm or wave number.
 - Latest version of Hitachi's FL Solutions software package
- **Advanced Hardware**
 - Highest sensitivity in class: >S/N 800 RMS (250 P-P)
 - Wide dynamic range (6 or more orders of magnitude)
 - Easy to operate
 - Automatic Performance Validation
 - New accessories: Micro Cell Holder for using standard 100uL microcells, Auto-Sampler system, low cost Quantum Yield Measurement System for powders, Full Range Spectral Correction

NOTE: Hitachi reserves the right to terminate this new product introductory promotion at any time. Cannot combine with any other offer or discount. Contact Hitachi for further details of this offer. Previous sales are excluded.

Hitachi—The Value Leader in Spectroscopy

Hitachi High Technologies America, Inc.
 Life Sciences Division
 5100 Franklin Drive
 Pleasanton, CA 94588

Toll Free: (800) 548-9001
 E-mail: sales-LS@hitachi-hita.com
 Web site: www.hitachi-hita.com/LSHome
 Online store: store.hitachi-hita.com

F-2700 Fluorescence Spectrophotometer Specifications

Sensitivity	S/N 800 or better (RMS) S/N 250 or better (Peak to Peak) (Raman spectrum of water: Ex 350nm, Band pass Ex 5nm, Em 5nm, Resp 2 sec)
Light Source	150W Xenon Lamp in self-deozonating lamp housing
Photometric Principle	Monochromatic light monitoring with ratio calculation
Measuring wavelength range	220 to 730 nm and zero order light (220 to 800 nm using optional PMT)
Band pass	2.5, 5, 10, 20 nm (in both Ex and Em sides)
Wavelength accuracy	±3.0 nm
Wavelength scan speeds	60, 300, 1500, 3000 and 12000 nm/min (12000 nm/min only under PC control)
Wavelength drive speed	12000 nm/min
Display range for measured wavelength:	-9999 to 9999
Minimum sample volume	0.6 mL (using standard 10 mm cell), 0.2 mL (using microcells)
Data processing unit	PC with Windows XP Professional

Software functions

Item	Remarks	Stand alone	Item	Remarks	Stand alone
Quantitative computations	Quantitative analysis 2/3 wavelength calculation Calibration curve (linear/quadratic) Peak ratio Peak area, quantification by differentiation		Wavelength scanning	Area calculation Spectrum normalization Spectrum averaging Half-value width calculation	
			Time course change measurements	Fluorescence time scan measurement (minimum interval 0.1sec) Rate calculation Trace, scale conversion Smoothing File-to-file calculation (addition, subtraction, multiplication and division) Differentiation (linear to bi-quadratic) Area calculation	
Wavelength scanning	Fluorescence/emission spectra Synchronous spectra / repetitive measurement / CAT Excitation-side spectrum correction (220 to 600nm) Emission-side spectrum correction (220 to 600nm) Excitation-side spectrum correction (500 to 800nm)* Emission-side spectrum correction (500 to 800nm)* *Note: Sub-standard light source required Trace, scale conversion Graph axis transformation Smoothing File-to-file calculation (+, -, x, ÷) Differentiation (linear to bi-quadratic)		Three dimension	3-dimensional measurement	
			Others	Automatic sensitivity measurement Measurement of wavelength accuracy and wavelength setting repeatability Pre-scan Storage of condition data	

Hitachi—The Value Leader in Spectroscopy

Hitachi High Technologies America, Inc.
Life Sciences Division
5100 Franklin Drive
Pleasanton, CA 94588

Toll Free: (800) 548-9001
E-mail: sales-LS@hitachi-hta.com
Web site: www.hitachi-hta.com/LSHome
Online store: store.hitachi-hta.com