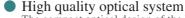Fluorescence

Spectrofluorometer

Routine analysis through biomedical research

FP-6200

Designed for both routine and research applications the FP-6200 combines a highly sensitive spectrometer with a range of accessories and application specific software to provide a flexible solution to meet a range of applications. Researchers have the choice of JASCO's unique Spectra Manager™ cross-platform software. for more demanding experimentation. Routine users will appreciate the simple touch screen LCD display of the iRM (intelligent Remote Module) which provides an alternative instrument control interface with the ability to display graphics and output reports.

● High quality optical system

The compact optical design of the FP-6200 employs high quality components designed around a DC powered 150W Xenon lamp which is contained within a sealed housing. The lamp output is monitored and maximum stability is ensured by the use of a reference silicon photodiode which monitors the source output and automatically compensates for any minor variation in lamp intensity. The FP-6200 provides excellent sensitivity with a S:N specification of 450:1. The spectrometer consists of excitation and emission holographic monochromators optimized for the UV.

● System versatility and flexibility

The FP-6200 can be used for a wide variety of fluorescence applications. Specific applications may require that specially designed accessories are placed within the instrument. The FP-6200 sample compartment employs prealigned mountings which enables various optional JASCO manufactured accessories as well as custom-made accessories to be quickly and easily mounted or demounted without the need for time consuming re-alignment.

● Spectra Manager™ Suite

Spectra Manager™ is a fully-integrated 32-bit PC software package that can be used to control the FP-6200. Spectra Manager™ provides a wide range of advanced features and functions that allow precise measurement and detailed data analysis via a user-friendly operating environment. Spectra Manager™ is designed to be used with other JASCO spectroscopic products including FTIR, UV/VIS, CD spectrometers and Polarimeter. It allows data obtained from a variety of instruments to be viewed, analyzed, displayed and printed together for comparison and publication. The software is fully multi-tasking allowing accurate data acquisition even whilst simultaneously running other programs or when controlling other JASCO instruments.

JASCO

SPECIFICATIONS

Light source:	Xe lamp with shielded lamp house, 150-watt
Detector:	Silicon photodiode for excitation monochromator Photomultiplier for emission monochromator
Photometric system:	Photometric ratio system using monochromatic light to monitor the intensity output of Xe source
Monochromators:	Holographic grating with 1200 grooves/mm modified Rowland mount
Wavelength range: (mechanical)	Zero order 200~1000 nm for both excitation and emission monochromators
Wavelength range: (operative)	Zero order 220~730 nm with standard PM tube 200~900 nm with optional PM tube for emission monochromator 200~800 nm with optional PM tube for excitation monochromator
Wavelength accuracy:	± 3 nm (except zero order)
Spectral bandwidth:	5, 10, 20 nm on both excitation and emission monochromators
Wavelength scan speed:	60, 125, 250, 500, 1000, 4000, 8000 nm/min for both excitation and emission monochromators
Slew speed:	30,000 nm/min
Response:	0.02, 0.05, 0.1, 0.25, 0.5, 1, 2, 4, 8 sec (Quantitative analysis, Fixed wavelength measurement) 0.02, 0.05, 0.1, 0.25, 0.5, 1, 2, 4, 8 sec and auto-response (Time course measurement) Fast, Medium, Slow, Auto (Wavelength scan measurement)
Sensitivity:	Signal to noise ratio 450:1 or higher, Raman band of water peak-to-peak using SBW 10 nm on both EX and EM monochromators, 2 second response at 350 nm excitation wavelength.
Gain:	High, Medium, Low (approx. x100, x10, x1)
Sample compartment:	Single cell holder (standard)
Photometric stability:	± 1%/hr
Output port:	RS-232C interface
Power requirement:	100, 115, 200, 220, 230, 240V, 400VA
Dimensions:	420(W) X 480(D) X 260(H) mm
Net weight:	approx. 34 kg

STANDARD COMPOSITION

Spectrofluorometer	1 set
AC power cable	1 pc.
RS-232C cable	1 pc.
Spare fuse	2 pcs.
Fluorescence cell, 10 mm path.	1 pc.
Allne wrench	1 pc.
Test tube holder	1 pc.
Instruction manual	1 set
Spectra Manager software package[1]	1 set
Inteligent Remote Module[2]	1 set

1) Only C/N: 6816-J002A Model
2) Only C/N: 6816-J005A Model

ORDERING INFORMATION

Code No.	Description
6816-J002A	FP-6200 Spectrofluorometer (with Spectra Manager™)
6816-J005A	FP-6200 Spectrofluorometer (with iRM)

OPTIONAL ACCESSORIES

Code No.		Description
Optional Program for Spectra manager		
4880-0562A	FWVD-6201	Validation program
4880-0783B	FWCC-6208	Correction & Concatenation Measurement Program
4880-0716F	FWMCR-786	Macro command program
4880-0564C	FWIS-6202	Interval scan program
4880-0566B	FWTI-6203	Temperature interval scan program
4880-0568A	FWCA-6204	Dual WL Time scan program
4880-0570B	FWDM-6205	Melting program
4880-0755B	FWPK-6209	Parallel kinetics program
4880-0769A	FWFC-6210	Fluorescent color measurement program
Optional ROM/RAM Card for iRM		
4880-0455D	FVDP-564	Validation card
4880-0454B	FMCC-563	Macro command card
4880-0453B	FUCP-562	User calculation card
4880-0451A	FRAM-560	Parameter memory card
4880-0452A	FRAM-561	Data memory card
4880-0456B	FKAP-565	Kinetics analysis card
Fluorescence Cells		
1103-0081	FP-1004	Standard fluorescence cell
1103-0180	FP-1003	Non-fluorescence rectangular cell
Optional Accessories for Bio-Applications		
6808-J021A	FMH-110	Micro cell holder
6808-J022A	FMM-100	Micro quartz cell for FMH-110
6746-J003A	STR-312	Water thermostattable cell holder with stirrer
6746-J004A	ETC-272	Peltier thermostatted single cell holder with stirrer (Water-cooled)
6746-J001A	FCT-152	Water thermostattable automatic 4-position turret cell changer
6746-J017A	CSP-622	Sample holder lid with syringe port
Optional Accessories for Environmental or Routine Applications		
6746-J002A	SHP-292	Peristaltic sipper
6808-J024A	FHM-400	High sensitivity cell holder
6746-J005A	MFC-132	HPLC flow cell accessory, 15ƒÊl
6774-J001A	ASU-605	Autosampler
6708-J051A	NCS-609	Syringe pump
Optional Accessories for Environmental or Routine Applications		
6808-J025A	FSA-400	30 ‹ incident angle cell holder
6808-J023A	FDA-430	Solid sample holder
6746-J007A	EFA-382	Epifluorescence attachment
6808-J020A	FUV-420	Accessory for UV/Vis. measurement
6808-J138A	FDP-223(W)	Polarizer and analyzer accessory (for UV/Vis. range)
6808-J029A	FDP-213	Polarizer and analyzer accessory (for Vis. range)
6746-J009A	WRE-362	PM tube for longer wavelength range
6746-J008A	ROU-332	Analog output I/F (factory option)

● Specifications are subject to change without notice.

ISO 9001 Certified
Products described herein are designed and manufactured by ISO-9001-certified JASCO Corporation.

Serving the global marketplace with Analytical Instrumentation
JASCO Corporation
2967-5, Ishikawa-cho, Hachioji, Tokyo 192-8537, Japan
http://www.jasco.co.jp

LFP02-0607 Printed in Japan