

Spectrofluorometer

Middle-range spectrofluorometer

FP-6300



The FP-6300 is a powerful yet easy to use Spectrofluorometer designed for both research and educational laboratories. It provides quality optics and high performance in a compact system that can be expanded to perform a wide variety of advanced applications using application specific accessories common to JASCO's range of Spectrofluorometers. Complete instrument control and data manipulation are performed from a PC data station using JASCO's unique cross-technique Windows software Spectra Manager™ following GLP and ISO guidelines.

- **High quality optical system**

The compact optical design of the FP-6300 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.

- **System versatility and flexibility**

The FP-6300 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-6300 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.

- **High sensitivity**

The signal-to-noise ratio of the instrument determined using the Raman band of water at 350 nm (excitation) with 10 nm Ex/Em spectral bandwidths is in excess of 550:1. In addition, instrumental parameters and accessories can be further optimized to make measurements with virtually any sample type.

- **Spectra Manager™ Suite**

Spectra Manager™ is a fully-integrated 32-bit PC software package that can be used to control the FP-6300. 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.



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 1500 grooves/mm modified Rowland mount
Wavelength range: (operative)	Zero order 220~750 nm with standard PM tube 200~900 nm with optional PM tube
Wavelength accuracy:	± 2 nm (except zero order)
Spectral bandwidth:	2.5, 5, 10, 20 nm on both excitation and emission monochromators
Wavelength scan speed:	20, 50, 100, 200, 500, 1000, 4000, 5000, 10000 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 of Raman band of water at 350 nm excitation wavelength, 2 sec. response time and both 10 nm excitation and emission monochromator bandwidths monochromators is greater than 550:1
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:	469(W) × 500(D) × 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.
Spectra Manager software package	1 set
Instruction manual	1 set

ORDERING INFORMATION

Code No.	Description
6851-J002A	FP-6300 Spectrofluorometer

OPTIONAL ACCESSORIES

Code No.	Description
Optional Program	
4880-0572A	FWVD-6301 Validation program
4880-0750B	FWCC-6308 Correction & Concatenation Measurement Program
4880-0716F	FWMCR-786 Macro command program
4880-0574C	FWIS-6302 Interval scan program
4880-0546D	FWTI-6303 Temperature interval scan program
4880-0576A	FWCA-6304 Dual WL Time scan program
4880-0578B	FWDM-6305 Melting program
4880-0763B	FWPK-6309 Parallel kinetics program
4880-0771A	FWFC-6310 Fluorescent color measurement program
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
6808-J013A	STR-313 Water thermostatable cell holder with stirrer
6808-J001A	ETC-273 Peltier thermostatted single cell holder with stirrer (Water-cooled)
6808-J002A	EHC-573 Peltier thermostatted single cell holder with stirrer (Air-cooled)
6808-J008A	FCT-133 Water thermostatable automatic 8-position turret cell changer
6808-J006A	CSP-143 Sample holder lid with syringe port
Optional Accessories for Environmental or Routine Applications	
6808-J010A	QFS-253 Vacuum sipper
6808-J009A	SHP-393 Peristaltic sipper
6808-J024A	FHM-440 High sensitivity cell holder
6808-J016A	FSC-423 Micro flow cell unit with 15 µl cell
6808-J017A	FSC-523 Micro flow cell unit with 30 µl cell
6808-J018A	FSC-623 Micro flow cell unit with 100 µl cell
6808-J011A	MFC-233 HPLC flow cell accessory
6774-J001A	ASU-605 Autosampler
6708-J051A	NCS-609 Syringe pump
Other Optional Accessories	
6808-J025A	FSA-400 30° incident angle cell holder
6808-J023A	FDA-430 Solid sample holder
6808-J012A	EFA-383 Epifluorescence accessory
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)
6808-J014A	PMA-283 Low temperature measurement accessory
6808-J015A	OFB-123 Fiber optics accessory
6746-J009A	WRE-362 PM tube for longer wavelength range
6808-J007A	ESC-333 Standard light source for spectral correction
6808-J030A	ROU-233 Analog output I/F (factory option)

● Specifications are subject to change without notice.



JASCO INTERNATIONAL CO., LTD.

4-21, Sennin-cho 2-chome, Hachioji, Tokyo 193-0835, Japan
Tel: +81-42-666-1322 Fax: +81-42-665-6512 Internet: <http://www.jascoint.co.jp/english/index.html>

Australia, China, Hong Kong, India, Indonesia, Iran, Korea, Malaysia, New Zealand,
Pakistan, Philippines, Russia, Singapore, South Africa, Taiwan, Thailand

JASCO INCORPORATED

8649 Commerce Drive, Easton, Maryland 21601-9903, U.S.A
Tel: +1-800-333-5272 Tel: +1-410-822-1220 Fax: +1-410-822-7526 Internet: <http://www.jascoinc.com>

Canada, Costa Rica, Mexico, Puerto Rico, Argentina, Brazil, Chile, Colombia, Paraguay, Peru, Uruguay

JASCO EUROPE s.r.l.

Via Confalonieri 25, 23894 Cremella (Lc), Italy
Tel: +39-039-956439 Fax: +39-039-958642 www.jasco-europe.com

JASCO Deutschland www.jasco.de, **JASCO UK** www.jasco.co.uk, **JASCO France** www.jascofrance.fr,
JASCO Benelux www.jasco.nl, **JASCO Spain** www.jasco-spain.com, **JASCO Scandinavia** www.jascoscandinavia.se

Austria, Finland, Greece, Hungary, Poland, Portugal, Romania, Switzerland, Algeria, Cyprus,
Egypt, Israel, Jordan, Kuwait, Lebanon, Morocco, Saudi Arabia, Syria, Tunisia, Turkey, U.A.E.



Serving the global marketplace
with Analytical Instrumentation

JASCO Corporation

2867-5, Shikawa-cho, Hachioji, Tokyo 192-8537, Japan
<http://www.jasco.co.jp>

LFP01-0607 Printed in Japan