

FS-2060

Fluorescence Spectrophotometer



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► **Application:**

FS-2060(CRT) fluorescence spectrophotometer is a new intelling instrument, widely used in scientific research, chemical, pharmaceutical, biochemical, pharmaceutical, biochemical, environmental and clinical testing, food inspection, teaching experiments and other fields.

►► **Common characteristics:**

Emission monochromator use 1200L/nm concave grating. Blaze wavelength: Excitation side: 300 nm, Fluorescence side 400 nm. Large aperture aspherical mirror, the sensitivity is particularly high. 150W large power mercury lamps, strong excitation Uses light source monitoring technology, measuring results are stable. Photomultiplier tubes are high performance, has the best signal to noise retio. With self-diagnostic function, reliable work. Spectral bandwidth 1 to 20 nm (continuously adjustable and computer controlled)

►► **FS-2060 CRT type of characteristics:**

With Windows 95 computer workstation, less failure, good reliability. Workstation uses the English dialog window, easy to operate. Can comfortably perform the scanning determination, quantitative analysis, calculate, tabulate and record with the mouse.

Accessories	
Light Source:	150W Xenon arc/pulse lamp & self-de-ozonating lamp house
Interference filters (mercury lamp light source):	254nm, 313nm, 436nm,
546nmInterference filters (deuterium light source) :	250nm ~ 750nm

- Arbitrarily select Power cord
- Rectangular quartz cell 10 mm²

►► **960 CRT with computer:**

Spectral processing	
Continuous scan measurement:	1-4 first derivative spectra; calculating peak; peak retrieval; mapping operations; map window treatment; map store and recall; map printout.
Quantitative Analysis	
Continuous scan measurement:	Solid (powder/palette/film) liquid sample holder for 11 mm to 13 mm cuvettes.measurement of S/N and stability; automatic background subtraction; quantitative analysis, print out, measurement of solid and powder samples
Software	
Windows 7 or 10 operating system. Spectrum module capable of Excitation spectrum, fluorescence spectrum and synchronous spectrum. Software have program for controlling the instrument & its accessories. Time scan measurement and Data- processing features such as quantitative analysis, cumulative data averaging, first to fourth order differentiation, statistic calculation, wavelength scan measurement, time based measurement such phosphorescence life time, Data export to Microsoft Excel etc. FL solution program.	

►► **960MC/CRT:**

Specification	
EM Wavelength range:	200nm ~ 900nm
EX Wavelength range:	200nm ~ 800nm
Photometric value range:	-9999 to 9999 or better
Detector:	PMT with range of 200nm ~ 600 nm
Measurement techniques:	Fluorescence, phosphorescence, luminescence
System:	equipped with a cuvette system and have microplate reader
Technology:	precision machine technology for bright optic system
Diffraction gratings:	one for excitation side and one for fluorescent light side
Working humidity:	15 to 35°C, 25 to 80% (condensation not allowed, 70% or less at 35°C or higher)
Wavelength accuracy:	±0.5nm or better
Wavelength repeatability:	±0.2nm or better
Resolution:	+ 1.5nm or better
Wavelength scan speed:	Up to 24000 nm/min or better
Filter wheel:	12 slots that accept standard 12.5mm round filters
Optics:	Monochromator based (monochromatic light monitoring ratio calculation)
Monochromator based:	Response from 0 to 98% 0.002, 0.01, 0.05, 0.1, 0.5, 2, 4, 8, or better
Sensitivity Background:	S/N ratio 15000:1 or using Ramen Band of water
Sensitivity Peak:	S/N 800 (RMS), S/N 250 (peak to peak)
Wavelength drive speed:	12000 nm/min
Minimum sample volume:	0.6 ml
Standard operating panel:	Built in large high- resolution LCD displays easy to read data.
Power:	230, 240 VAC, 50/60 Hz, 400 VA
Determination method:	a. wavelength scanning b. time scanning c. Quantitative analysis
Peak Power setting:	120Kw, 80Kw, 40Kw, 20Kw
Event Marker:	Electronically identifies where within the data stream sample introduction occurred

- Excitation and emission slits
- Minimum scan speeds can be selected in 1nm increments from 10-1200 nm/min
- Luminescence spectrometer for fluorescence and decay time measurements

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

Reach us @



HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W. www.analyticalgroup.net
www.hplctechnologies.com
www.multiplelabs.com
www.ais-india.com

Sales & Support Offices:
across the country :
Distributors & Channel
partners World Wide