

SPECTRO™ UV 3000 PMT



Specifications

Model	SPECTOR™ UV 3000 PMT
Wavelength Range	190-900nm,Czerny-Turner mounting,1200 lines/mm
Spectral Bandwidth	0.1 - 5.0nm (Holographic grating)
Wavelength Accuracy	±0.3nm (0.1nm if required)
Wavelength Resolution	0.1nm
Wavelength Reproducibility	0.15nm
Wavelength Repeatibility	±0.05 nm
Photometric Accuracy	±0.002 Abs (0.5Abs) ±0.003 Abs (1 Abs)
Photometric Reproducibility	±0.001 Abs (0.5Abs) ±0.001 Abs (1 Abs)
Photometric mode	Absorbance, Transmittance, Reflectance, Energy
Stray Light	≤0.0025%T (Nal, 220nm)
Baseline Flateness	±0.0003Abs (200-850 nm)
Stability	0.0002A/h (at 700nm, after warming up)
Detector	photomultiplier
Light Source	tungsten halogen lamp and deuterium lamp (Opt: Xenon flash lamp)
Power	AC : 220V/50Hz, 400W
Dimensions	670 x 470 x 210 mm
Weight	45kg
Photometric Range	Abs:-5 to +5,%T;0 to 300%
Photometric Noise	0.00001 Abs

Features

Double beam (sealed optics) fully automated scanning system. PC control, rich analytical software.

Wavelength Scan:

Scanning sample spectra in any range within 190-900nm. Three scanning speed; Fast, Middle and Slow selectable, with min. sampling interval of 0.04nm. Data processing function of derivative spectra and smoothing, peak picking, spectrum expansion and superposition and other arithmetic calculation.

auto position adjustment built - in in our system for lamp sources.

Fixed wavelength measurement : :

10 wavelengths can be set at the same time Arithmetic calculation between wavelengtha can be done.

Quantitation:

Standard factor method, standard contrast method:

2-wavelength method, and 3 - Wavelength method etc.

Kinetic Measuremrnt:

Wavelengths and sampling interval selectable, activity, calculation available.

Wavelength Slew Rate is Variable upto 3000nm/min Drift: 0.0003 Abs/h



UV SPECTRA ™ Control Software

The Analytical windows based PC application software UV/Vis analyst takes the best features of the stand alone version plus more powerful data processing, expanded data collection and storage capability. It comes standard with Analytical PC models and is optional to stand alone models.

The PC application software offers:

- 1. Photometric Mode
- 2. Quantitative tast (standard curve)
- 3. Wavelength Scan
- 4. Kinetics

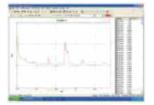
- 5. DNA/Protein
- 6. Multi-Wavelength
- 7. System Utility



Use up to 20 standards to establish standard curve. Four methods for fitting a curve:

- 1. Linear fit 2. Linear through zero
- 3. Square fit 4. Cubic fit

Quantiative tast (standard curve)



wavelength scan

Automatically record peaks and valleys. The quantity of channels is unlimited. You can simultaneously store as many as desired. Post run manipulation and processing includes:

- 1. Re-Scaling axes, curve
- 2. 1st to 4th derivative
- 3. Smoothing, combination, zooming, overlap.

KINETICS (ABS VS. TIME)

The kinetic mode may be used for time course scanning or reaction rate calculations. Abs vs, Time graphs are displayed on the screen in real time. Waiting time measurament time and intervals may be entered.

Post run manipulation includes re scaling, curve tracking and selection of the part of the curve required for the rate calculation.

Rate is calculated using a linear regression algorithm before multiplying by the enterd factor.



Concentration and DNA purity are quickly and easily calculated: absorbance ratios 260nm/280nm with optional subtracted absorbance at 320nm DNA Concentration = 62.9" A₂₆₀-36.0"A₂₈₀ Protein Concentration = 1552" A₂₆₀-757.3"A₂₈₀

DNA / PROTEIN

Other wavelengths and factors may be entered.



Up to 20 wavelengths can be setected and multiple samples can be measured. (Auto cell changer is required to run multiple samples automatically)

Multi-Wavelength

Upgradation

DR (Diffusion Reactor) for measurement of soild sample

Optional Accessories



4-Cell Holder For 10mm Swu.Cuvette



4-Cell Holder For 50mm Swu.Cuvette



4-Cell Holder For 100mm Swu.Cuvette



Cylindrical Cell Holder



Water jacketed Cell Holder



Micro Cell Holder



Test Tube Holder



8 - Position Auto Cell Changer



Solid Sample Holder (single Cell)



10mm Water jacketed 4 Cell Holder



Square Cuvettes Glass 10mm, 20mm, 30mm, 50mm, 100mm, Square Cuvettes Quarts 10mm, 20mm, 30mm, 50mm, 100mm



Micro Cell Quartz 100ul, 200ul, 500ul



Seif Masking Cont, Flow Through G.cell 5mm, 10mm, 20mm, 30mm, Seif Masking Cont. Flow Through Q.cell 5mm, 10mm, 20mm, 30mm



Halogen Lamp 6V10w 12v20w



12V2UW HALUGEN LAMP 6V10W, 12V20W



Constant Temperature Sipper System



Constant Temperature System



Sipper System



Thermal Printer



Deuterium Lamp



Color Spectro CS 3600

High performance-price ratio among similar international products;

• CS 3600 integrates multiple innovative characteristics, and extends the boundary of on-site quality control during production:







- Allows quick comparison between tow color samples. and shows clear results in numbers or in graphs.
- It can be applied to laboratories. factories and on-site operations, and can achieve the best color management across all application fields' quality control;
- Allows medium and small companies to obtain high performance color management system with relatively low price;
- The software contains all necessary color equations, standard light sources, and a large number of standards for specific industries and applications:
- Operation system supports both English and Chinese Interfaces, and CHN Spec offers to design the interface in other languages based on the needs of our customers;

Professional design and powerful instrument functions



· Professional horizontal design, and

it does not have any moving parts.

process. This makes the measurement

which avoids the shaking of the

instrument during measurement

more accurate;



 PC software for easy measurement data management; Pre-locating panel design for easy instrument calibration;





 Can measure both SCI and SCE at the same time.

 Large data storage space: can store up to 100 sets of standard samples. with up to 200 measurement records for each standard sample;
Specifications

Model	CS-3600
illumination/observation system	D/8 (diffused light, 8" reception, SCE/SCI)
Sensor	Photoetectric diode array
Integrating sphece dimeter	40mm
Wavelength range	400nm - 700nm
Wavelength interval	10nm
Half bandwidth	<=14nm
Range of reflectance	0-175%, resolution 0.1%
Light source	Composite LEDs
Measuring time	About 1.5 seconds
Measuring caliber	8mm
Repeatability	The standard deviation within ΔE^* ab 0.08, the standard deviation within 0.2%
Inter instrument agreement	Within ∆E*ab0.4 / standard color boards.
Languages	English (optional language of your choice)
Standard observer	2' and 10'
Observation light source	A, C, D50, D65, F2, F6, F7, F8, F10, F11, F12 (can select two light sources for display at the same time)
Displayed contents	Spectral data, spectral chart civomatic values chromatic abefration value, pass / fait coor simblation.
color space / standards	L' a' b', L"C"h, ΔE'ab (CIE 1976) ΔΕch ΔΕ' 94(CIE1994) ΔΕ00/CIE2000), CMC (1.1) CMC (2.1) Yxy, Xyz, WI (ASTM E 313/CIE;
	YI (ASTM E313/ ASTM D1925), ISQ bnghtness (iso 2470), Destiny status A/T, CIE00, WI/Tint
Data storage	100 x 200 (100 sets of standard samples, up to 200 measurement records under each standard sample)
Port	USB
Power source	Detechable lithium-ion battery pack, DC adapter
Operation temperature and humidity range	5 to 40°C, relative humidity 80% or less (at 35°C) with no condensation
Storage temperature and humidity range	0 to 40°C, relative humidity 80% or less (at 35°C) with no condensation
Display	2.8-inch TFT color screen
Accessories	Black and white calibration box, pre-locating panel
Optional accessories	Mini-printer
UV flourenscent	Without UV













>>> Corporate Social Responsibility



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

- 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 personallities for their contributions across various field of Science and Technoligy 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 boby by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Comps etc.

>>> Reach us @





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