



Specifications

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Model	Spectro UV 2080	Spectro UV 2080+
Optical system	Double Beam 1200L/mm, Czerny Turner and automatic lamp peaking, holographic grating (Quartz quoted optics)	
wavelength Range	190~1100nm	
Band Width	1 nm (190 to 1100nm)	0.5/1/2.0/4.0/5.0nm with 0.1 nm increment
Wavelength Accuracy	± 0.1 nm (656.1nm) D2 ± 0.3 nm (at all wavelengths)	
wavelength Repeatability	≤ 0.05 nm	
wavelength setting	0.1 nm	
Wavelength Reproducibility	0.02 nm with holmium oxide filter	
Photometric Accuracy	±0.002 Abs (0.5Abs);±0.004 Abs (1.0Abs);±0.006 Abs (2.0Abs) (NIST930D/NIST1930)	
Photometric Repeatability	Less than ±0.0002 Abs at 0.5Abs; Less than ±0.0002 Abs at 1.0Abs; Less than ±0.0010 Abs at 2.0Abs	
Photometric Reproducibility	≤ 0.0001 Abs	
Photometric Range	Absorbance:-3 to 3 Abs Transmittance:0% to 400%	
Stability	Less than 0.0003Abs/at 700nm	
Baseline Flateness	±0.0005A (190-1100nm)	
Resolution	± 0.3 nm/>1.6(peak-to-valley ratio;toluene in hexane)	
Noise	0.00004 Abs RMS value (at 700nm)	
Stray Light	Less than 0.50% at (198 nm KCI), Less than 0.02% at (220 nm (NaI), Less than 0.02% at (340 nm NaNO2) <0.0005 A/HR	
Measurement Modes	Absorption, Transmission, Reflectance	
Date Output	USB/RS-232C	
Print	Parallel Port	
Wavelength slew rate	Hi,Med,Slow,24,000 nm/min	
Scan Speed	Hi, Med, Slow 0.5nm/min to 6000nm/min	
Light Source	Tungsten Halogen, Deuterium lamp (2000h) (Xenon flash lamp)	
Light source switching	Automatic	
Dimension	600(L) x 450(w) x 200(H)mm	
Weight	28kg	30kg
Detector	Silicon Photodiodes	
Power	230 VAC +/- 10 %, 50/60 HZ	

Spectro UV 2080 Series is an advanced double beam design consisting of six models.

Stand alone model:

UV-2080 with 1 nm fixed bandwidth UV-2080 + with variable bandwidth: 0.5/1/5nm Other specifications of the six models are almost the same except bandwidth.

The two detectors measure sample and raference

respectively and simultaneously for optimizing measurement accuracy. They provide excellent performance for measurements in range of 190 to 1100 nm. They are suitable for pharmaceutical, bio chemical and clinical lab applications as well as routine applications such as Quantitative analyses, kinetics, wavelength scan, multiple components and DNA/ Protein System fullyupgradableto21CFR PC Windows application. software make these instruments versatile, Cell compartment easily adjustable and accessible to keep 10 mm (with 1nm increment) cuvettes. Automatic changeover of lamp is possible. Sample compartment contain one reference holder and one sample holder separately.

- Fixed or variable slits(bandwidths)
- · Measuring technology: Beam splitters/ optical fiber
- · For stand alone models, all software mothods are included as built in standard this eliminates the need of software.
- Online software upgrade via internet helps to keep it updated.
- · Date download to PC software expands the data storage to unlimited.
- · The stand alone models has 5 inch screen and the PC models has UV/VIS Analyst software. Stand alone models have the same functions as UV series, see next page for details GLP/GMP complied.
- · Software have spectrum overlay, peak pick up function.
- Display: High resolution LCD display.



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

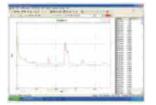
- 5. DNA/Protein
- 6. Multi-Wavelength
- System Utility



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.

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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.



Multi-Wavelength

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

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;

One of the standard sample;

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 ∆E* 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, ΔΕ'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 ANALYT-ICAL 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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