

BIO SPECTROPHOTOMETER



Nano 3060UV Bio



3060-UV spectrophotometer, equipped with 6 inches LCD display, is an ideal and advanced analytical instrument for laboratory to realize wavelength scanning, kinetics test, multi wavelength functions. All function can be operated on spectrophotometer and can be read directly on the display.

[Features]

6 inches LCD display

3060-UV series has a 6 inches LCD display to show results and curves directly on the screen.

Powerful Functions

Multi functions like spectrum scanning, standard curve, kinetics, multi wavelength, DNA/Protein testing can be operated directly on the spectrophotometer and all corresponding curves and data can be displayed directly.

Perfect calibration system

All baseline, wavelength, dark current can be calibrated automatically to keep good running conditions.

Lead screw structure

The instrument has a lead screw structure to make the rotation angle of the grating perfectly, so that the instrument wavelength accuracy and wavelength resolution can be greatly improved.

8mm thick optical base

3060 - UV uses a rigid 8mm die-cast aluminum base as its optical mount to ensure instrument stability and reliability.

Data output

3060 - UV is equipped with USB port to connect with a PC to display spectrum scanning, kinetics and multi wavelength testing results on the screen. The software is optional.

[Technical specification]

Model	3060 - UV
Wavelength Range	190-1100nm
Bandwidth	1.8nm
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	0.3nm
Photometric Accuracy	± 0.3%T
Photometric Repeatability	0.2%T
Photometric Range	-0.3-3A,0-200%T,0-9999C
Stability	± 0.002A/H @ 500nm
Baseline Flatness	± 0.002A
Noise	± 0.002A
Stray Light	≤ 0.05%T @ 220nm, 360nm
Data Output Port	USB
Printer Port	Parallel Port
Display	320x240 Dots LCD
Lamps	D2 Lamp/W Lamp/Xe Lamp
Detector	Silicon Photodiode
Power Requirements	AC 220V/50Hz or 110V/60Hz
Dimension	460x380x180mm
Weight	20kg

[Standard Accessories]

Item	Description	Qty	Unit
1	Spectrophotometer	1	Set
2	1cm Glass cuvette	4	Pcs
3	Power cord	1	Pcs
4	User's Manual	1	Pcs
5	1cm quartz cuvette	2	Pcs
6	Dust cover	1	Pcs



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.

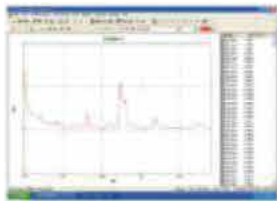
The PC application software offers:

- | | |
|---------------------------------------|---------------------|
| 1. Photometric Mode | 5. DNA/Protein |
| 2. Quantitative tast (standard curve) | 6. Multi-Wavelength |
| 3. Wavelength Scan | 7. System Utility |
| 4. Kinetics | |



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

Quantitative 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.

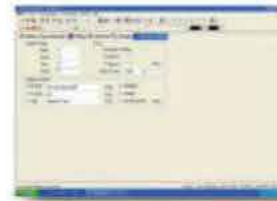


KINETICS (ABS VS. TIME)

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 measurement 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.



DNA / PROTEIN

Concentration and DNA purity are quickly and easily calculated: absorbance ratios 260nm/280nm with optional subtracted absorbance at 320nm
 DNA Concentration = $62.9 \cdot A_{260} - 36.0 \cdot A_{280}$
 Protein Concentration = $1552 \cdot A_{260} - 757.3 \cdot A_{280}$

Other wavelengths and factors may be entered.



Multi-Wavelength

Up to 20 wavelengths can be selected 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 Class
 10mm, 20mm, 30mm, 50mm, 100mm,
 Square Cuvettes Quarts
 10mm, 20mm, 30mm, 50mm, 100mm



Micro Cell Quartz
 100ul, 200ul, 500ul



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



Halogen Lamp
 6V10w
 12V20w



12V20W HALOGEN 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:



- 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;

- Allows quick comparison between two color samples. and shows clear results in numbers or in graphs.

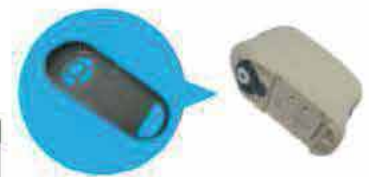
Professional design and powerful instrument functions



- Professional horizontal design, and it does not have any moving parts. which avoids the shaking of the instrument during measurement process. This makes the 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	Photoelectric diode array
Integrating sphere diameter	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 $\Delta E^* ab$ 0.08, the standard deviation within 0.2%
Inter instrument agreement	Within $\Delta E^* ab$ 0.4 / 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 chromatic values chromatic aberration value, pass / fail color simulation.
color space / standards	L* a* b', L*C*h, $\Delta E^* ab$ (CIE 1976) $\Delta E^* 94$ (CIE1994) ΔE_{00} /CIE2000), CMC (1.1) CMC (2.1) Yxy, Xyz, WI (ASTM E 313/CIE YI (ASTM E313/ ASTM D1925), ISQ brightness (iso 2470), Density 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	Detachable 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 fluorescent	Without UV

▶▶▶ Regulatory compliances



▶▶▶ Corporate Social Responsibility



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Foundation

Analytical Foundation is a nonprofit organization (NGO) founded 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 personalities for their contributions across various fields 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 DETOXYFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Comps etc.

▶▶▶ Reach us @



 **Analytical**®
Technologies Limited

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