



LI-2800 Ex

Microprocessor UV-VIS Double Beam Spectrophotometer Exclusive Model (Variable Bandwidth) With Peltier Model : LI-2800 Ex



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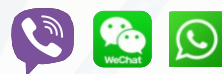
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Applications

- * Medicine/Pharmaceutical Industry
- * Environment Monitoring
- * Commodity Inspection
- * Food Inspection
- * Agricultural Chemistry
- * Teaching in Colleges & Universities
- * Metallurgy
- * Geology
- * Machine Manufacturing
- * Petrochemical Industries
- * Water and Waste water Labs
- * Food and beverages Labs

Lasany International



Mob: +91-9888911439,+91-8725830111
Email: sales@lasanyspectrophotometers.com
Website: www.lasanyinternational.com
 www.spectrophotometers.in
 www.spectrophotometersindia.com
Skype ID: lasany.international



Perfection in Laboratory Science





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Double Beam UV/VIS Spectrophotometer spectrophotometer are advanced double beam optical system . Double beam optical structure can inhibit the drift, Suitable for long time test. with 0.5/1/1.5/2/4/5nm Variable bandwidth, They are suitable for research ,biochemical and pharmaceutical lab applications.

TECHNICAL SPECIFICATIONS

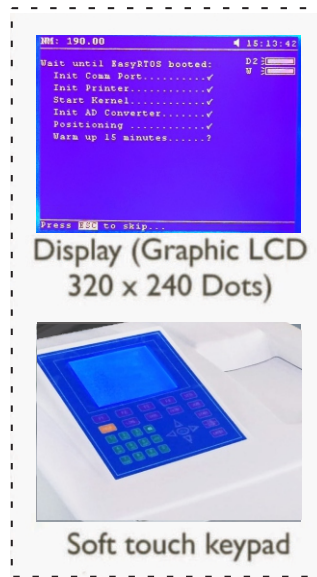
- Wavelength Range : 190-1100nm
- Spectral Bandwidth : 0.5/1/1.5/2/4/5nm Variable
- Optical System : Double Beam, Blazed Holographic Grating (1200 lines/mm)
- Wavelength Accuracy : ±0.5nm
- Wavelength Repeatability : ≤0.2nm
- Wavelength Setting : Auto, Resolution 0.1nm
- Photometric Range : 0~200%T,-4~4A,0~9999C
- Photometric Accuracy : ±0.002 A (0~0.5A), ±0.003A (0.5~1A), ±0.3%T (0~100%T)
- Photometric Repeatability : ≤0.001 A (0~0.5A), ≤0.002A (0.5~1A), ≤0.2%T (0~100%T)
- Stray Light : ≤0.05%T(220/360nm)
- Scan Speed : High, Medium, Low. Max.2000nm/minute
- Baseline Flatness : ±0.001A
- Stability : ±0.001A/h (500nm,0A)
- Noise : ≤0.2%T/3min (250/500nm,0%T); ≤0.3%T/3min (250/500nm,100%T)
- Sample Compartment : 10mm Pathlength Cuvette
- Detector : Silicon Photodiode
- Lamps : Tungsten Lamp & Deuterium Lamp (Pre-aligned)
- Display : Graphic LCD (320*240 Dots)
- Keypad : 30-key Alphanumeric Membrane Keypad
- Output Port : USB Port
- Printer : Mini Serial Printer; PC Printer
- PC Software : PC Scanning Software
- Power Requirements : AC 90-250V, 50/60Hz
- Dimension : 635x515x255mm
- Weight : 26kg

SALIENT FEATURES

- Double beam ensure low drift, low noise and Low stray light
- High speed MCU, high precision AD, large storage capacity
- Large LCD display (320*240 Dots)
- 1.0nm or variable Bandwidth meet Pharmacopoeia
- Data and Curve can be stored in real-time
- Online software upgrade capability
- Lamps can be turned on/off individually
- Easy to change Pri-aligned lamps

Function:

- Photometric
- Quantitative(Standard Curve)
- WL Scan(Spectrum Scan)
- Time Scan(Kinetics)
- DNA/Protein Test
- Multi-WL Test
- System Utility



STANDARD CONFIGURATION

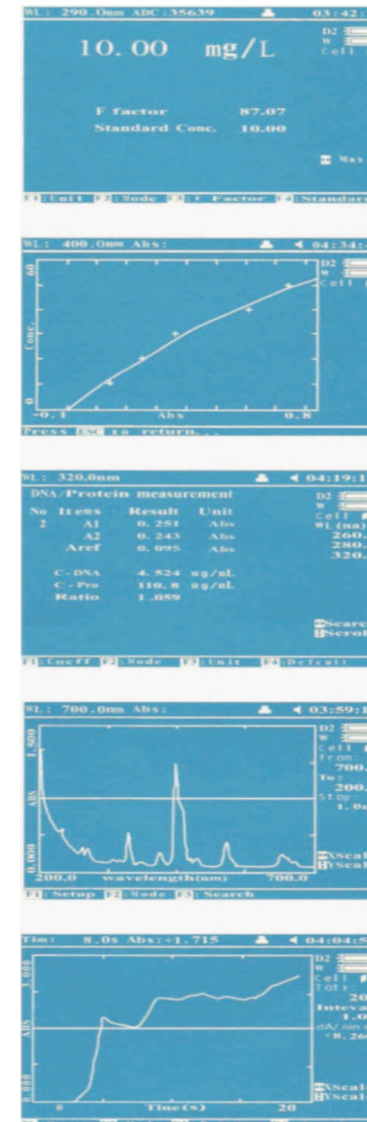
- Glass Cell : 4 Nos.
- Quartz cells : 2 Nos.
- Instruments Cover : 1 No.
- Software CD : 1 No.
- USB Cable : 1 No.
- Operational Manual : 1 No.
- Software Manual : 1 No.
- Software key : 1 No.

Technical specification

1. The valid temperature range is from 15°C to 65°C
2. The valid sampling time range is from 30s to 10min,
3. The valid peristaltic pump speed range is from 1 to 12
4. The sampling speed is about 50ml/min.
5. Power supply is 220±22V@50±1Hz or 110±11V@60±1Hz.

Accessories

- 1) Control Unit.
- 2) Cell holder with Peltier System. (It's already pre-loaded into the compartment of the spectrophotometer).
- 3) Control Cable (to connect the Control Unit with the Cell holder with Peltier System).
- 4) Peristaltic pump pipe. (It's already pre-loaded into the pump valve of the Control Unit)
- 5) Power cord.



Basic Mode

To measure the Absorbance and transmittance

Quantitative

1. Coefficient Method
2. Standard Curve Up to 10 Standard sample may be used to establish a curve. Four methods for fitting a curve through the calibration points : Linear fit. Linear fit through zero, Square fit and cubic fit.

DNA/Protein Test

Concentration and DNA purity are quickly and easily calculated: Absorbance ratios: 260 nm / 280 nm with optional subtracted absorbance at 320 nm. DNA concentration = 62.9XA260-36.0XA280 Protein concentration = 1552xA260-757.3xA280

Wavelength Scan

1. The wavelength scan intervals are 0.1,0.2,0.5,1,2,5 nm
2. High, Medium and low scan speed are available. They vary from 100 to 3600 nm/min
3. Wavelength are scanned from high to low so that the instrument waits at high WL. And it minimizes the degradation of UV sensitive samples.

Kinetics

Abs vs time graphs is displayed on the screen in real time wait time and measurement time up to 12 hours may be entered with time interval of 0.5,1,2,5,10,30 seconds and one min. Post-run manipulation includes re-scaling, curve tracking and selection of the part of the curve required for rate calculation. Rate is calculated using a linear regression algorithm before multiplying by the entered factor.

*OEM option available

