

# **DOUBLE BEAM UV-VIS SPECTROPHOTOMETER**

## **ALS-INS038**



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## DESCRIPTION

DOUBLE BEAM UV-VIS SPECTROPHOTOMETER is an instrument which measures the amount of light that a sample absorbs. Steady, modern, and elegant appearance design. Adopt the newest microcomputer technology and electronic control system. Optimized optical system and structure can both extend new functions and ensure the accuracy, stability, and durability.

## FEATURES

- 7-inch color LCD screen and long life, more comfortable and sensitive silicone buttons. The instrument can show various scanning curves and charts for users to complete various tests without computers.
- Support USB storage and different data formats such as Excel, text and image (PC software). Users can output test data to flash memory, open and edit them on computers directly without any auxiliary software.
- Advanced hardware and 32-bit Cortex\_M3 processor with the clock speed 120MHz. The equipment can store 5000 pieces of data and 500 curves.
- High-efficiency holographic grating of 1200 lines/mm and low stray light. The equipment has long-life socket type tungsten-halogen and deuterium lamps which can work up to 2000 hours, can switch the lamps according to test needs and record its working time automatically. Socket type lamps make the replacement much easier.
- Excellent silicon photodiode can guarantee the equipment is highly sensitive and stable.
- Huge sample chamber and various accessories can meet all kinds of needs.
- Can be connected to printer directly and output test charts and data.
- Powerful PC software.
- Standard RS232, USB(A), USB(B) port for printer, data transfer and PC connection.

**TECHNICAL SPECIFICATIONS**

<b>Model</b>	<b>ALS-INS038DBS</b>
Display	7-inch LCD screen
Keyboard Control	Silicone Button
Optical System	Single Beam
	Holographic grating, 1200 lines/mm
Spectral Bandwidth	2nm
Wavelength Range	190 - 1100nm
Wavelength Accuracy	±0.3nm
Wavelength Repeatability	≤0.2nm
Photometric Accuracy	0.2%T (0-100%T), +0.002A(0-0.5A), \$0.004A(0.5-1A)
Photometric Repeatability	≤0.15%T (0-100%T), 0.001(0-0.5A), 0.002A(0.5-1A)
Stray Light	≤0.03%T@ 220nm,360nm
Stability	±0.002A/h@500nm
Communication	USB(A) for data transfer, USB(B) PC software and Bluetooth
Photometric Range	0.002A(200-1000nm)
Baseline Flatness	±0.0003A@500nm
Noise	0.0003A@500nm
Working Mode	T,A,C,E
Wavelength Setting	Automatic
Scanning Speed	High, Medium and Low Solid Silicon Photodiode
Detector	Solid Silicon Photodiode
Light Source	Tungsten Halogen/Deuterium Lamp
Data Output	RS232, USB(A), USB(B)
Processor	Cortex_M3, 120Mhz
Shipping Dimensions & Weight	770*630*340