

UV-VIS SPECTROPHOTOMETER IG-2100 SERIES



CONTACT US

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ABOUT THE COMPANY

iGene Labserve Pvt. Ltd. is gaining recognition by offering resilient, innovative solutions in laboratory instrumentation across healthcare, genomics, drug discovery, biopharma, and food & beverage sectors. We strive to enhance lab efficacy and reduce challenges through advanced technologies and a diverse product portfolio tailored to our customers' needs.

DESCRIPTION

iGene Labserve Spectrophotometer high-precision instrument for measuring light absorbance or transmittance in liquid samples. Ideal for color analysis, concentration measurement, and quality control, ensuring accuracy and consistency across research and production workflows.

Used in DNA/RNA/protein quantification, colorimetric analysis, pharmaceutical testing, water quality monitoring, and academic research.



KEY FEATURES

- **7-Inch Color Touchscreen Display:**
 - Intuitive interface for easy operation and real-time data viewing.
- **Data Storage & Connectivity:**
 - Supports USB storage with export options in Excel, text, and image formats.
 - Equipped with RS232, USB(A), and USB(B) ports for flexible data transfer and device connectivity.
- **Advanced Optical System:**
 - Features a high-efficiency holographic grating (1200 lines/mm) for precise wavelength resolution.
 - Ultra-low stray light ensures high accuracy in absorbance readings.
- **Dual Lamp System:**
 - Socket-type tungsten and deuterium lamps for extended lifespan and simplified replacement.
 - Auto-switching based on test requirements and automatic lamp usage tracking.
- **High Sensitivity & Stability:**
 - Incorporates a high-quality silicon photodiode for excellent sensitivity and signal stability.
- **Spacious Sample Chamber & Versatile Accessories:**
 - Accommodates a wide range of cuvettes and test requirements for diverse applications.
- **Direct Printing Capability:**
 - Can connect directly to a printer to output test results and spectral charts.
- **Powerful PC Software:**
 - Enables full-wavelength scanning, data analysis, and report generation.

TECHINCAL SPECIFICATION

SPECIFICATION	IG-2100V	IG-2100UV
Display	7-inch touch screen	
Wavelength Range	320 – 1100 nm	190 – 1100 nm
Slit Width	2 nm	2 nm
Wavelength Accuracy	±0.3 nm	
Wavelength Repeatability	≤0.5 nm	≤0.5 nm
Photometric Range	0 - 200%T, - 0.3 - 3A, 0-9999 Concentration	
Photometric Accuracy	± 0.5%T, 0.004 Abs (0-0.5A), 0.008 Abs (0.5-1A)	
Photometric Repeatability	± 0.5%T, 0.004 Abs(0-0.5A), 0.008 Abs (0.5-1A)	
Stray light	≤ 0.1%T	
Stability	0.002A @ (500 nm, 3 min)	
Noise	≤0.15%T	
Wavelength Setting	Automatic	
Communication	USB (A) for data transfer, USB (B) PC software and Bluetooth	
Light Source	Tungsten Lamp	Deuterium Lamp & Tungsten Lamp
Functions	Photometry and Quantitative measurements	
Power Requirements	220V/50-60 Hz, 110V/60 Hz	



CONNECT WITH US

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