

UV VIS DOUBLE BEAM SPECTROPHOTOMETER IG-29DS TOUCH



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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

A double-beam spectrophotometer ensures high accuracy and stability by using separate light paths for the sample and reference, compensating for fluctuations in light intensity. It is ideal for quantitative analysis in pharmaceuticals, biochemistry, and industrial applications, supporting auto wavelength selection, high-resolution scanning, and multiple analysis modes.



KEY FEATURES

- **Auto Wavelength Selection & Correction:** Automatically adjusts based on D2 (Deuterium lamp) peaks for precise measurements.
- **Extended Lamp Lifetime:** Independent control over D2 (Deuterium lamp) and visible lamps enhances durability.
- **Easy Maintenance:** Pre-aligned optics enable quick and hassle-free lamp replacement.
- **Spacious Sample Compartment:** Accommodates various path-length cuvettes for flexible analysis.
- **Configurable Wavelength Scan:** Adjustable from 0.1 nm to 5 nm, balancing accuracy and speed.
- **Multiple Analysis Modes Supported:**
 - **Photometric:** Measures absorbance or transmittance of a sample at a single wavelength to determine concentration.
 - **Quantization:** Determines the concentration of an unknown sample by comparing it to a standard curve.
 - **Multi-wavelength Scan Spectrum:** Analyzes absorbance across multiple wavelengths to study spectral characteristics.
 - **Time Scan Kinetics:** Monitors absorbance changes over time to analyze reaction rates and enzyme kinetics.
 - **DNA/Protein Analysis:** Measures nucleic acid and protein concentration based on absorbance at specific wavelengths (e.g., 260 nm & 280 nm).
 - **Touchscreen control panel:** The touchscreen control panel features an intuitive interface, allowing users to easily set and adjust all machine parameters.

SPECIFICATIONS

MODEL	IG-29DS TOUCH
Wavelength range	190.0 nm to 1,100.0 nm
Spectral bandwidth	Fixed – 1 nm (190 to 1100 nm)
Wavelength display	0.5 nm increment
Wavelength setting	0.5 nm increment (0.1 nm increment when setting the scanning range)
Wavelength accuracy	±0.5 nm at D2 peak 656.1 nm ±0.5 nm for the entire range (190 to 1100 nm)
Wavelength repeatability	±0.1 nm
Wavelength slew rate	About 6000 nm/min
Wavelength scanning speed	3600 to 2 nm/min
Lamp interchange wavelength	Automatic changeover of wavelength with configurable wavelength.
Stray light	Less than 0.02% T at 220 nm 10 g/l NaL(natural air level)) Less than 0.02% T at 340 nm (50 g/l NaNO ₂) Less than 1.0% T at 198 nm (12 g/l KCl)
Photometric system	Double beam optics
Photometric readability range	Absorbance: -4.00 to 4.00 Abs ;Transmittance: 0% to 400%
Photometric accuracy	±0.002 Abs at 0.5 Abs ±0.004 Abs at 1.0 Abs ±0.006 Abs at 2.0 Abs
Photometric repeatability	Less than ±0.001 Abs at 0.5 Abs ;Less than ±0.001 Abs at 1 Abs Less than ±0.003 Abs at 2 Abs.
Baseline stability	Less than 0.0002 Abs/Hr @ 700 nm (one hour after light source ON)

SPECIFICATIONS:

MODEL	IG-29DS TOUCH
Baseline flatness	Less than ± 0.0002 Abs (avg. of points) (1100 to 190 nm, one hour after the light source switched ON)
Baseline Noise	Less than 0.00005 Abs (700 nm)
Light source	Plug-in pre-aligned Halogen lamp and Deuterium lamp(D2).
Monochromator	Blazed holographic grating in Czerny-Turner mounting
Detector	Dual Silicon photodiode
Sample compartment	Internal dimensions: 115 (W) x 250 (L) x 90 (H) mm Distance between light beams: 80 mm
Power requirements	AC 230 with 50Hz, 160 VA.
Environmental requirements	Temperature: 15°C to 38°C Humidity: 30% to 80%
Dimensions	430 (W) x 560 (L) x 195 (H) mm
Weight	22Kg
Optional Accessories	8 cell auto samplers, Variable Slit 0.5 nm to 5.0 nm, Micro-cell, Long path 20, 40, 50, 100 mm cell, Constant temperature attachment.
Software	Software compatible with (Microsoft Windows 7 & above)
Validation	Semi-automatic measurement and pass/ fail evaluation and printing of results



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