



UV-VIS SPECTROPHOTOMETERS



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Visible Spectrophotometer has been designed to suit a wide range of budgets, industries, and applications. The range includes single beam entry-level spectrophotometers with a spectral bandwidth of 12 nm, and variable double beam spectrophotometers with a spectral bandwidth down to 2.0 nm. Iris Visible Spectrophotometer has absorbance, transmittance, absorbance ratio, and factor concentration modes, as well as absorbance against time and scanning capabilities. Provide accurate and reliable to your field measurements with several basic functions, such as photometry test, quantitation test, and spectrum scanning

Visible Spectrophotometer IVS-200 Series

Visible Spectrophotometer IVS-200 Series is simple to operate and easy to use instrument with advanced performance technology. This series is a single beam spectrophotometer. Our line of spectrophotometers is intended to fit into the medical and health department, biochemistry, petro-chemistry, environmental monitoring, and quality control as qualitative and quantitative analyses. Build-in halogen tungsten light source and a silicon photodiode detector.



We offer a soft keypad display, with continuous wavelength ranging from 320 to 1100 nm. Features with LCD light display with 190 to 1100 nm and 320 to 1100 range and tungsten halogen lamp. Portable and effortless handling with flatness up to $\leq 0.1\%$ T (NaNO₂, 360 nm), 0.05% T (NaNO₂, 360 nm) stray light and single beam, flat grid of 1200L / mm.

- Results can be reported quickly
- Large 6 inches blue and 16X2 LCD display with touch features
- Improved optical and electronic design
- Single beam detector
- Automated design, realizing easy measurement
- Parameters can be kept for future use and automatically save after power failure
- Determined wavelength scanning, time scanning, multiple wavelength determination, multiple order derivative determination, double wavelength method and triple wavelength method etc.
- Data outputs can be gained by means of a printer port and RS-232 interface with optional USB port
- Automatic 10 mm 8-cell holder, variable to automatic 5 mm to 50 mm 4-position cell holder for more choices

Model	IVS-210		IVS-220	
Wavelength	320-1100 nm			
Display	6 inches blue LCD light		16X2 LCD	
Detector	Silicon photodiode			
Accuracy	± 0.5 nm		± 2.0 nm	
Reproducibility	0.2 nm		1 nm	
Source	-		Halogen tungsten lamp	
Monochromator	Single beam, flat grid of 1200L / mm			
Spectral Bandwidth	2 nm (5 and 1 nm are optional)		5 nm (1,2 and 4 nm are optional)	
Stability	$\approx 0.001\text{A/h}$ (at 500nm, after heating)			
Photometric Accuracy	$\pm 0.5\%$ T (0-100% T), $\pm 0.002\text{A}$ (0-0.5A) $\pm 0.004\text{A}$ (0.5A-1A)		$\pm 0.5\%$ T	
Photometric reproducibility	0.2% T		0.3 % T	
Photometric range	-0.3 to 3 A			
Stray light	$\approx 0.1\%$ T (NaNO ₂ , 360 nm)		$\approx 0.05\%$ T (NaNO ₂ , 360 nm)	
Baseline Flatness	$\pm 0.002\text{A}$			
Power Consumption	140 W		100 W	
Dimensions	530 × 410 × 210 mm		-	
Weight	18 kg		15 kg	
Electrical Requirement	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Catalogue No.	580100501	580100502	580101001	580101002

Visible Spectrophotometer IVS-100 Series

Visible Spectrophotometer IVS-100 Series is simple to operate and easy to use instrument with advanced performance technology. This series is a single beam spectrophotometer. Our line of spectrophotometers is intended to fit into the medical and health department, biochemistry, petro-chemistry, environmental monitoring, and quality control as qualitative and quantitative analyses. Build-in halogen tungsten light source and a silicon photodiode detector.



We offer a soft keypad display, with continuous wavelength ranging from 325 to 1000 nm, 320 to 1100 nm. Suitable for basis, standard curve and coefficient method, quantitative and qualitative analysis of samples within the visible spectrum and with manual and automatic setting mode to escape operation miscalculations. Offer lead screw structure to instruments for better accuracy and resolution. Access with T, A, C, F photometric range along with 4 different mode functions including absorption, transmittance, concentration, and coefficient with manual switching mode.

Functions of photometric range:

- T Type: used to measure the transmittance of samples.
- A Type: used to measure the Absorbance of samples.
- C Type: used to measure the standard curve can use at most 9 standard samples to generate a new standard curve and to measure the unknown samples by the new one.
- F Type: used to measure the coefficient method input the known K and C to measure the unknown concentration samples.

Features

- Microprocessor controlled
- 1200 line grating which ensures high resolution
- Designed with 128×64-inch LCD display
- Spectral bandwidth 2 and 4 nm
- Die-cast aluminum base materials
- Single beam spectrophotometer with highly stable optics
- Low stray light with $\leq 0.2\%$ T and $\leq 0.5\%$ T
- Simple to upgrade: basis, standard curve and coefficient method, quantitative and qualitative analysis
- Automatic and manual setting mode
- Designed with lamp saver mode
- Designed with high class grating hermetic light path to ensure low stray light
- Support USB Port & Parallel Port (Printer) for data storage

Model	IVS-110			IVS-120	
Wavelength	320 to 1100 nm				
Wavelength Setting	Auto				
Display	128×64-inch LCD				
Detector	Silicon Photodiode				
Accuracy	±0.8 nm			±0.5 nm	
Reproducibility	0.3 nm			0.2 nm	
Source	W Lamp				
Baseline Flatness	± 0.002A/h			± 0.0015A/h	
Spectral Bandwidth				2 nm	
Stability				± 0.001A/h (500 nm)	
Photometric Accuracy	±0.3% T				
Photometric Reproducibility	0.2% T				
Photometric Range	-0.3 to 3A 0 to 200% T 0 to 9999 C				
Stray light	?0.05% T				
Interface	USB Port & Parallel Port(Printer)				
Dimension	460×360×225 mm				
Weight	18 kg				
Electrical Requirement	AC 220V/50Hz	110V/60Hz	AC 220V/50Hz		110V/60Hz
Catalogue No.	580050502	580050501		580051002	580051001

