

GENESYS 10S Series Specifications

	GENESYS 10S UV-Vis	GENESYS 10S Vis
Optical Design	Dual Beam – Internal Reference Detector	Single Beam
Spectral Bandwidth	1.8 nm	5.0 nm
Light Source (Typical Lifetime)	Xenon Flash Lamp (5 years; 3 years guaranteed)	Tungsten-Halogen Lamp (1000 hrs.)
Detector	Dual Silicon Photodiodes	Silicon Photodiode
Wavelength: Range	190 – 1100 nm	325 – 1100 nm
Accuracy	± 1.0 nm	
Repeatability	± 0.5 nm	
Slew Speed	11,000 nm/min	
Scanning Speed	10 – 4,200 nm/min	
Data Interval	0.2, 0.5, 1.0, 2.0, 3.0, 5.0 nm	1.0, 2.0, 3.0, 5.0 nm
Photometric: Linear Range	Up to 3.5 A at 260 nm	Up to 3.0 A at 340 nm
Display	-0.5 – 5.0 A; -1.5 – 125%T; ± 9999 C	-0.1 – 3.0 A; -0.3 – 125%T; ± 9999 C
Accuracy	± 0.005 A at 1.0 A 0.010 A K ₂ Cr ₂ O ₇	0.5% or ± 0.005 A, whichever is greater up to 2 A
Noise	< 0.00025 at 0.0 A < 0.00050 at 1.0 A < 0.00080 at 2.0 A RMS at 260 nm	< 0.001 A at 0.0 A < 0.002 A at 2.0 A Peak-to peak at 340 nm
Drift	< 0.0005 A/hr	0.002 A/hr after warm-up
Stray Light	< 0.08%T at 220, 340nm (NaI, NaNO ₂) < 1.0%T 198 nm (KCl)	< 0.1%T at 340, and 400 nm
Display	Graphical with LCD backlight 9.7 x 7.1 cm (3.8 x 2.8 in)	
Keypad	Sealed Membrane with tactile response keys	
Printer (optional)	40 column Internal (text and graphics) External USB printer (HP PCL 3 or greater)	
Connectivity	USB Type A port for USB memory device (front panel) USB Type B port for optional computer connectivity (rear panel) USB Type A port for external printer (rear panel)	
Dimensions	30 W x 40 D x 25 H cm (11.8 x 15.7 x 9.8 in)	
Weight	8.6 kg (19 lb.)	
Power Requirements	Selected Automatically 100 – 240 V; 50 – 60 Hz	

Supplied as Standard

- GENESYS 10S Series spectrophotometer
- 6-position cell changer
- Single cell holder
- 100 – 240 V automatic power supply
- AC power cord
- Spare fuses
- Protective plastic cover
- USB memory device
- USB cable

Note: Software is not included with the instrument and must be ordered separately.

Ordering Information

GENESYS 10S UV-Vis Instruments	Part Number
GENESYS 10S UV-Vis, US line cord	840-208100
GENESYS 10S UV-Vis, with internal printer, US line cord	840-208200
GENESYS 10S UV-Vis, Europlug & UK line cords	840-209700
GENESYS 10S UV-Vis, with internal printer, Europlug & UK line cords	840-209800
GENESYS 10S Vis Instruments	Part Number
GENESYS 10S Vis, US line cord	840-207900
GENESYS 10S Vis, with internal printer, US line cord	840-208000
GENESYS 10S Vis, Europlug & UK line cords	840-209500
GENESYS 10S Vis, with internal printer, Europlug & UK line cords	840-209600

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