



Spectrophotometers

Spectronic™ GENESYS™ 10 and 20



Specifications - Spectronic GENESYS 20

Model	Spectronic GENESYS 20
Spectral Slitwidth	8 nm
Optical System	Grating based, 1200 lines / mm
Wavelength Range	325 to 1100 nm
Wavelength Accuracy	±2.0 nm
Display	20 character, 2 line LCD
Photometric Range	0 to 125%T, -0.1 to 2.5A, 0 to 1999C
Photometric Accuracy	0.003A from 0.0 to 0.3A, 1.0% from 0.301A to 2.5A
Photometric Noise (at 500 nm)	0.001A at 0A, ≤0.002A at 2A
Photometric Drift	0.003A/hour
Stray Radiant Energy	<0.1%T at 340 and 400 nm
Lamp Source Lifetime	Approx 1000 hours
Standard Interfaces	RS-232C and Centronics Ports
Languages Display	User selectable (English, Spanish, French, or German)
Languages Printer Output	Prints English, Spanish, French, German or Czech with compatible printer
Languages Operator's Manual	English, Spanish, French and German included
Power Requirements	100-240 Volts ± 10%, 50-60 Hz ± 2 Hz
Dimensions H x W x D mm	190 x 300 x 330
Weight kg (lbs)	4.5 (10)

Specifications - Spectronic GENESYS 10

Model	Spectronic GENESYS 10 Vis	Spectronic GENESYS 10 UV	Spectronic GENESYS 10 UV Scanning
Spectral Slitwidth	5 nm	5 nm	5 nm
Optical Design	Single beam, grating-based single detectors	Split beam, grating-based, dual detectors	Split beam, grating-based, dual detectors
Lamp Source (typical life)	Tungsten-Halogen (1000 hrs)	Xenon (5 years)	Xenon (5 years)
Wavelength Range	325 to 1100 nm	190 to 1100 nm	190 to 1100 nm
Wavelength Accuracy	±1.0 nm	±1.0 nm	±1.0 nm
Wavelength Repeatability	±0.5 nm	±0.5 nm	±0.5 nm
Display	320 x 240 pixel backlit LCD, 3.8" x 2.8"		
Photometric Range	-0.1-0.3A; 0.3-125%T, ± 9999C		
Photometric Readout	Absorbance, Transmittance, Concentration		
Photometric Accuracy	0.5% or 0.005A, whichever is greater, up to 2A		
Noise	<1mA at 0A; <2mA at 2A, peak-to-peak at 340 nm		
Drift	<2mA/hour (after warmup)	<1mA/hour	<1mA/hour
Stray Light	<0.1%T at 340 and 400 nm	<0.1%T at 340 and 400 nm	<0.1%T at 340 and 400 nm
Standard Interfaces	Bi-directional RS232C	Bi-directional RS232C; parallel output in HP PCL format	Bi-directional RS232C; parallel output in HP PCL format
Cell Holder	1-position or automatic 6-position cell holder		
Keyboard	Membrane Keypad		
Software	Absorbance/transmittance/concentration, standard curve absorbance ratio, absorbance difference, kinetics, survey scan (100 nm increments), 3-point net, multiwavelength, performance validation.		Same as G10 UV but with full-range scanning. Scanning speed: 200-1000 nm/min Sampling interval: 1,2,3,5 nm Cell correction: SmartSuite™
Test Storage	Up to 80 sets of test parameters		
Languages	Software and printouts: English, French, German, Spanish, Italian (user selectable) Operator's manual: English, French, German, Spanish, Italian		
Internal Printer (optional)	40 column internal graphics		
Analog Output (optional)	0-1V for -0.3 to 2.5A	0-1V for -0.3 to 2.5A	Not Available
Power Requirements	Selected automatically, 100-250 Volts		
Dimensions H x W x D mm	250 x 300 x 400		
Weight kg (lbs)	8.6 (19)	8.6 (19)	8.6 (19)

Ordering Information

Cat No.	Description
335900-04	Spectronic GENESYS 10 Vis Spectrophotometer, 190-1100 nm range, single cuvette holder
335902-04	Spectronic GENESYS 10 UV Spectrophotometer, 325-1100 nm range, single cuvette holder
335906-04	Spectronic GENESYS 10 UV Scanning Spectrophotometer, 190-1100 nm range, single cuvette holder, parallel output
4001-04	Spectronic GENESYS 20 Spectrophotometer