GENESYS instrument specifications

Description		GENESYS 30	GENESYS 40	GENESYS 140	GENESYS 50	GENESYS 150	BioMate 160	GENESYS 180	
Optical Design		Single Beam			Dual Beam			Double Beam	
Spectral Bandwidth		5 nm			2 nm				
Light source (Typical Lifetime)		Tungsten-Halogen (>1000 hours)			Xenon Flash Lamp (>5 years typical, 3 years guaranteed)				
Detector		Silicon Photodiode			Dual Silicon Photodiodes				
	Range		325-1100 nm			190–1100 nm			
Wavelength	Accuracy	±2 nm			±0.5 nm				
	Repeatability	<±1 nm			<±0.	<±0.2 nm			
	Scan Speed	Automatic—up to 1200 nm/min	Automatic— up to 1800 nm/min		Slow, medium and fast (up to 1600 nm/min)				
	Data Resolution	1 nm			0.2 nm, 0.5 nm, 1 nm, 2 nm, 5 nm 0.1 nm, 0.2 nm, 0.5 nm, 1 nm, 2 nm, 5 nm				
Photometric	Range	-3A to +3A	-3A to +3.5A -2A to +3.5A						
	Display	-3A to +3A, 0 to 200 000 %T, 0 to 9 999 999 C	-3A to +5A						
	Accuracy	±0.002A (0-0.3A) 0.5% of ABS reading (0.301A - 2.5A)	±0.002A at 0.5A ±0.004A at 1.0A ±0.008A at 2.0A						
	Repeatability ¹	±0.002 A	±0.001A at 1A						
	Noise ²	≤0.001A at 0A ≤0.001A at 1A ≤0.002A at 2A	≤0.00020A at 0A at 260 and 500 nm ≤0.00030A at 1A at 260 and 500 nm ≤0.00040A at 2A at 260 and 500 nm						
	Drift ³	<0.002A/Hr	<0.00	010A/Hr	<0.0005A/Hr				
Stray Light		<0.1%T at 340 nm and 400 nm	<0.05%T at 340 nm and 400 nm		< 1.0%T 198 nm (KCl) , <0.05%T at 220 nm (NaI), <0.03%T at 340 nm (NaNO ₂)				
Baseline Flatness		<0.003A	±0.005A		±0.002A				
Display		5-inch diagonal, 32-bit color display, 800 × 480 pixels	7-inch color touchscreen, fixed, high definition, 800 × 1280 pixels	7-inch color touchscreen, tiltable, high definition, 800 × 1280 pixels	7-inch color touchscreen, fixed, high definition, 800 × 1280 pixels	7-inch color touchscreen, tiltable, high definition, 800 × 1280 pixels			
Keypad		Tactile rubber 23 keys with numeric keypad	Touchscreen						
Sample Compartment		Accessible from top, front or side All platforms can accommodate 100 mm cells Available accessory for test-tubes up to 25 mm diameter and 150 mm height Removable, washable sample compartment liner with magnetic		Accommodates (optional): • 8-position cell changer • 4-posiiton cells changer (long path cells) • Peltier thermostatted cell holder (20–60 °C) • Sipper accessory	Accessible from top, front or side Able to accommodate cells up to 100 mm pathlength Available accessory for test-tubes up to 25 mm diameter and 150 mm height Removable, washable sample compartment liner with magnetic placement and hold-down	Accommodates (optional): • 8-position cell changer • 4-posiliton cell changer (long path cells) • Peltier thermostatted cell holder (20–60 °C) • Sipper accessory • Fiber optic probe coupler			
Printer		Snap-on printer available							
Connectivity		USB-A on front face supports flash memory devices for method and data storage USB-B on side supports connection to a Windows computer running optional remote control software; export data to PC via USB	Single USB-A supports flash memory devices for method and data storage Duplex USB-A supports connection to a Windows computer running optional remote control software, keyboard, mouse						
Languages		English (Available soon: Spanish, German, French, Italian, Portuguese, Russian, Chinese, Japanese, Korean, Thai)							
Dimensions		$35.5 \times 38.5 \times 19.5$ cm (L \times W \times H)							
Weight		7.5 kg							
Power Requirements		External AC to DC converter. Voltage and Frequency (Hz) selected automatically, 100–240 volts, 50–60 Hz.							
Warranty		2 years standard with 1 year extension upon registration of the instrument with Thermo Fisher Scientific within 6 months of purchase							
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^{1.} Measured at 1.0A at 546 nm 2. RMS at 500 nm. 60 consecutive measurements. 3. At 500 nm after warmup. 2hrs GENESYS 30, 1hr all others. *** Visit www.thermofisher.com/connect for details