



GENESYS Vis and UV-Vis Spectrophotometers

Legendary reliability. Unrivalled usability.

GENESYS—developed for users, designed for results

Built on the foundation of 60 years of spectroscopy experience, the Thermo Scientific™ GENESYS™ family of Vis/UV-Vis spectrophotometers provides exceptional performance with a contemporary design.

- Start taking measurements immediately with the simple-to-use, high-resolution, color-display start menu
- Exchange samples with ease with large, accessible sample compartment
- Save your data any way you want it with multiple data-export options

There is a GENESYS spectrophotometer you can count on to provide accurate, reproducible results for your application requirements.



Outstanding features to help you meet your teaching, quality control, and research UV-Vis needs

For teaching labs, research labs, and industrial QC requiring robust construction for easier software capability.



GENESYS 30 Visible Spectrophotometer

Modern power meets traditional simplicity

- The gold standard in basic spectrophotometers
- Large sample compartment supports the use of cuvettes and test tubes
- Removable, washable compartment liner for easy clean-up
- Ideal solution when OD600 is your primary need

GENESYS 40 Vis/50 UV-Vis Spectrophotometers

Advanced usability, modern functionality

- 7-inch, high-resolution touchscreen interface
- Local control increases speed and reliability for routine analysis
- Large sample compartment with front access simplifies sample handling
- Wi-Fi ready—save data and methods, print results from on-board control

For advanced teaching labs, R&D, research and life science applications requiring higher throughput or temperature control.



GENESYS 140 Vis/150 UV-Vis Spectrophotometers

Elite performance, enhanced capabilities

- Tilttable 7-inch, high-resolution touchscreen tablet to avoid glare
- Compatible with automated cell changers, Peltier, sipper and fiber optic probe accessory options
- Wi-Fi ready—save data and methods, print results from on-board control

BioMate™ 160 UV-Vis Spectrophotometer

Life science enabled

- Software includes pre-programmed life science methods such as Nucleic Acid A260; Protein A280 and A205; Protein Colorimetric assays and OD600
- Extend your capabilities with a microcell holder or Peltier thermostatted cell holder or cell changer option

Choose the instrument that's right for you

Instrument	Spectral region	Optics	Display	Supports test tubes	Removable and washable sample compartment	4 and 8-cell changer compatible	Sipper, Peltier, fiber probe compatible	A-T-C	Scanning
GENESYS 30	Vis	Single Beam	5-inch color screen	✓	✓	Single only		✓	✓
GENESYS 40	Vis	Dual Beam	7-inch touchscreen	✓	✓	Single only		✓	✓
GENESYS 50	UV-Vis	Dual Beam	7-inch touchscreen	✓	✓	Single only		✓	✓
GENESYS 140	Vis	Dual Beam	7-inch touchscreen, tilttable			✓	✓	✓	✓
GENESYS 150	UV-Vis	Dual Beam	7-inch touchscreen, tilttable			✓	✓	✓	✓
BioMate 160	UV-Vis	Dual Beam	7-inch touchscreen, tilttable			✓	✓	✓	✓
GENESYS 180	UV-Vis	Double Beam	7-inch touchscreen, tilttable			✓*	✓	✓	✓

*8-cell changer comes standard with the GENESYS 180

**Three-year warranty available upon instrument registration

For laboratories requiring double beam with a reference cell position.



GENESYS 180 UV-Vis Spectrophotometer

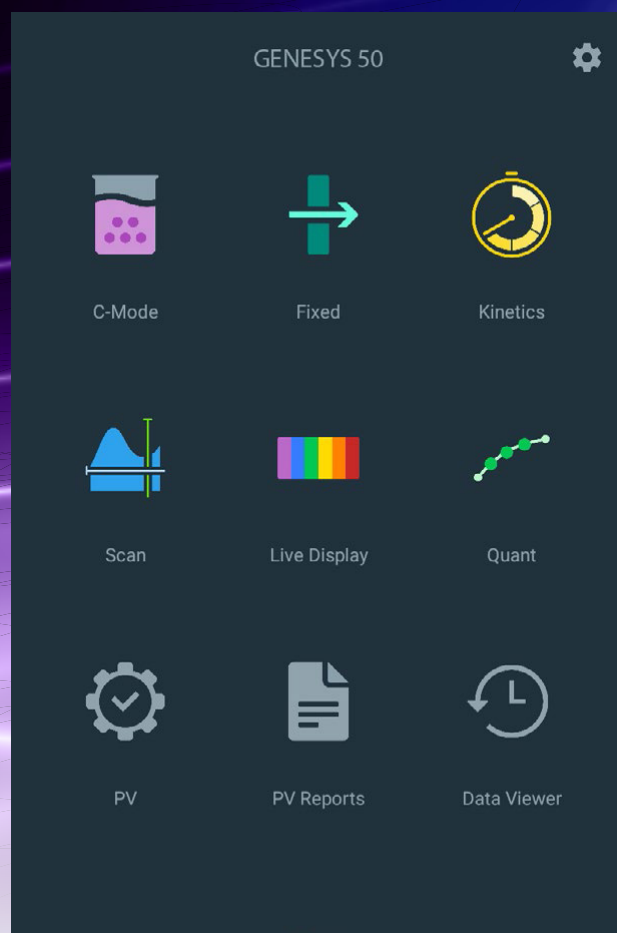
High-throughput ready

- Double-beam optics
- Ideal solution when a reference beam is required, such as for kinetics
- 8-cell changer standard
- Make measurements outside the sample compartment without cuvettes using fiber optic coupler and probe

Quant, fixed, live display, OD600	Kinetics	VISION/ite™ software compatible	Wi-Fi ready	Snap-on printer available	Warranty
✓		✓		✓	2 years**
✓	✓	✓	✓	✓	2 years**
✓	✓	✓	✓	✓	2 years**
✓	✓	✓	✓	✓	2 years**
✓	✓	✓	✓	✓	2 years**
✓	✓	✓	✓	✓	2 years**
✓	✓	✓	✓	✓	2 years**

Walk-up convenience

Simple-to-use, touchscreen user interface features the methods and applications most important to you.



Flexible computer control

Optional VISION/ite software offers complete control from a Microsoft® Windows® computer providing applications for:

- Scanning
- Quantitative analysis
- Kinetics
- Fixed wavelength measurements

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						
Wavelength	Range	325–1100 nm			190–1100 nm			
	Accuracy	±2 nm	±0.5 nm					
	Repeatability	<±1 nm	<±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	<0.0010A/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 x 480 pixels	7-inch color touchscreen, fixed, high definition, 800 x 1280 pixels	7-inch color touchscreen, tiltable, high definition, 800 x 1280 pixels	7-inch color touchscreen, fixed, high definition, 800 x 1280 pixels	7-inch color touchscreen, tiltable, high definition, 800 x 1280 pixels			
Keypad	Tactile rubber 23 keys with numeric keypad	Touchscreen						
Sample Compartment	<ul style="list-style-type: none"> 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 placement and hold-down 	Accommodates (optional): <ul style="list-style-type: none"> 8-position cell changer 4-position cell changer (long path cells) Peltier thermostatted cell holder (20–60 °C) Sipper accessory 	Accessible from top, front or side <ul style="list-style-type: none"> 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): <ul style="list-style-type: none"> 8-position cell changer 4-position cell changer (long path cells) Peltier thermostatted cell holder (20–60 °C) Sipper accessory Fiber optic probe coupler 	Accommodates (optional): <ul style="list-style-type: none"> 8-position cell changer (standard) 4-position cell changer (long path cells) Peltier thermostatted cell holder (20–60 °C) Sipper accessory Fiber optic probe coupler 			
Printer	Snap-on printer available							
Connectivity	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 Export data to network or PC via Ethernet or Wi-Fi Print via USB, Ethernet or Wi-Fi 						
Languages	English (Available soon: Spanish, German, French, Italian, Portuguese, Russian, Chinese, Japanese, Korean, Thai)							
Dimensions	35.5 x 38.5 x 19.5 cm (L x W x 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							

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

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