thermo scientific



Thermo Scientific GENESYS Vis and UV-Vis Spectrophotometers

Legendary reliability. Unrivaled usability.



GENESYS—developed for users, designed for results

Built on the foundation of 60 years of spectroscopy experience, the next generation 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 fast 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

For teaching labs, research labs and industrial QC requiring robust construction, ease-of-use and 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

Choose the instrument that's right for you



GENESYS 40 Vis/50 UV-Vis Spectrophotometers

Advanced usability, modern functionality

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

Instrument	Spectral region	Optics	Display			
GENESYS 30	Vis	Single Beam	5-inch color screen			
GENESYS 40	Vis	Dual Beam	7-inch touchscreen			
GENESYS 50	UV-Vis	Duai Deain	7-inch touchscreen			
GENESYS 140	Vis	Dual Beam	7-inch touchscreen,			
GENESYS 150	UV-Vis	Duai Deani	tiltable			
BioMate 160	UV-Vis	Dual Beam	7-inch touchscreen, tiltable			
GENESYS 180	UV-Vis	Double Beam	7-inch touchscreen, tiltable			

*8-cell changer comes standard with the GENESYS 180

**Three-year warranty available upon instrument registration

control and research UV-Vis needs

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

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



Thermo Scientific[™] BioMate[™] 160 UV-Vis Spectrophotometer

Life science enabled

- Includes Life Science Application Software package
- 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



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

Supports test tubes	Removable and washable sample compartment	4 and 8-cell changer compatible	Sipper, Peltier, fiber probe compatible	A-T-C	Scanning	Quant, fixed, live display, OD600	Kinetics	Thermo Scientific [™] VISION <i>lite</i> [™] software compatible	Wi-Fi USB adaptor, available	Snap-on printer available	Warranty
\checkmark	\checkmark	Single only		\checkmark	\checkmark	\checkmark		5		\checkmark	2 years**
\checkmark	\checkmark	Single only		5	1	1	\checkmark	5	\checkmark	1	2 years**
		1	\checkmark	\checkmark	\checkmark	1	\checkmark	5	\checkmark	1	2 years**
		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	2 years**
		\checkmark^{\star}	1	\checkmark	\checkmark	1	\checkmark	\checkmark	\checkmark	\checkmark	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

Des	cription	GENESYS 30	GENESYS 40	GENESYS 140	GENESYS 50	GENESYS 150	BioMate 160	GENESYS 180		
		Single Beam			Dual Beam			Double Beam		
Spectral Ban	dwidth		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	<±0.2 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					
	Range	-3A to +3A	-3A to	0 +3.5A	-2A to +3.5A					
Photometric	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			≤0.00030A at 1A a	≤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	10A/Hr	<0.0005A/Hr					
Stray Light	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 (Kit			1.0%T 198 nm (KCl) , <0.05%T at 220 r	ı (KCl) , <0.05%T at 220 nm (Nal), <0.03%T at 340 nm (NaNO ₂)					
Baseline Flat	ness	<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		-	Touch	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 placement and hold-down 		Accommodates (optional): • 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 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-position cell changer (long path ce Peltier thermostatted cell holder (20 Sipper accessory Fiber optic probe coupler		 8-position cell changer (standard) Also accommodates (optional): 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		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 × 38.5 × 19.5 cm (L × W × H)								
Weight		7.5 kg								
Power Requir	rements	External AC to DC converter. Voltage and Frequency (Hz) selected automatically, 100–240 volts, 50–60 Hz.								
Warranty	ranty 2 years standard with 1 year extension upon registration of the instrument with Thermo Fisher Scientific within 6 months of purchase									
1. Measured at 1.0)A at 546 nm 2. RI	WS at 500 nm. 60 consecutive measure	ments. 3. At 500 nm after warm	up. 2hrs GENESYS 30, 1hr all others.	***Visit www.thermofisher.com/conne	ect for details				

Find out more at **thermofisher.com/genesys**

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