## 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<sup>™</sup> GENESYS<sup>™</sup> 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
- 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

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 Dealii	r-inch louchscreen			
GENESYS 140	Vis	Dual Beam	7-inch touchscreen,			
GENESYS 150	UV-Vis	Duai Dealii	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 registratior

## 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 ready—save data and methods, print results from local control



Thermo Scientific<sup>™</sup> BioMate<sup>™</sup> 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 <sup>™</sup> VISION <i>lite</i> <sup>™</sup> software compatible	Wi-Fi ready	Snap-on printer available	Warranty
$\checkmark$	5	Single only		$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	2 years**
$\checkmark$	5	Single only		$\checkmark$	1	$\checkmark$	$\checkmark$	5	$\checkmark$	1	2 years**
		$\checkmark$	1	$\checkmark$	$\checkmark$	1	1	$\checkmark$	$\checkmark$	1	2 years**
		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	2 years**
		✓*	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	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<sup>®</sup> Windows<sup>®</sup> computer providing applications for:

- Scanning
- Quantitative analysis
- Kinetics
- Fixed wavelength measurements

## **GENESYS** instrument specifications

Optical Design Spectral Band				GENESYS 140	GENESYS 50	GENESYS 150	BioMate 160	GENESYS 180		
Spectral Band	ptical Design Single Beam				Dual Beam	Double Beam				
	lwidth		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							
	Accuracy	±2 nm		±0.5 nm						
Wavelength	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 n					
	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						
Photometric	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 <sup>1</sup>	±0.002 A	±0.001A at 1A							
	Noise <sup>2</sup>	≤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 <sup>a</sup>	<0.002A/Hr	<0.00	10A/Hr	<0.0005A/Hr					
Stray Light	ight <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 (Nal), <0.03%T at 340 nm (Nal)			VaNO <sub>2</sub> )						
Baseline Flatne	iess	<0.003A	±0.005A ±0.002A							
Display		5-inch diagonal, 32-bit color display, 800 × 480 pixels	7-inch color touchscreen, fixed, high definition, $800 \times 1280$ pixels	7-inch color touchscreen, tiltable, high definition, $800 \times 1280$ pixels	7-inch color touchscreen, fixed, high definition, 800 × 1280 pixels	7-inch color t	ouchscreen, tiltable, high definitio	on, 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 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			<ul> <li>8-position cell changer (standard) Also accommodates (optional):</li> <li>4-position cell changer (long path cells)</li> <li>Peltier thermostatted cell holder (20-60°C)</li> <li>Sipper accessory</li> <li>Fiber optic probe coupler</li> </ul>		
Printer					Snap-on printer available	·				
Connectivity end of the second		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 Require	ements	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								

ЛАБОРАТОРНОЕ ОБОРУДОВАНИЕ ПЛАСТИК СТЕКЛО РЕАКТИВЫ НАБОРЫ

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