

Thermo Scientific GENESYS G5 Vis and UV-Vis Spectrophotometers

Flexible by design. Simple and reliable by nature.

GENESYS spectrophotometers: Scalable, modern UV-Vis performance for evolving laboratories

Today's laboratories require UV-Vis instruments that combine ease of use, workflow flexibility, and dependable performance across a wide range of applications. The Thermo Scientific™ GENESYS™ G5 family is designed to support both routine and advanced workflows through intuitive operation, scalable accessories, and flexible software capabilities. Built on the foundation of nearly 70 years of spectroscopy experience, these modern instruments provide the versatile and trustworthy analysis contemporary labs demand.

- **Intuitive operation designed for fast adoption and minimal training**
- **Flexible accessory and software options to support evolving workflows**
- **Customizable methods for efficient and reproducible analysis**
- **Modern connectivity and data management for today's laboratories**

The GENESYS G5 family includes three Vis and UV-Vis models supported by a shared ecosystem of accessories and optional application software. This flexible platform allows laboratories to select the configuration best suited to their workflows today while maintaining the ability to expand as analytical needs evolve. Built on the trusted Thermo Scientific™ GENESYS™ spectrophotometer platform, the G5 family combines proven reliability with greater workflow flexibility.



Standardized technologies with the flexibility to adapt



The Thermo Scientific GENESYS G5 family is built on a standardized platform with shared accessories, software, and workflows across all models. This allows laboratories to simplify training, standardize operations, and flexibly adapt instrument configurations as analytical needs evolve. The instruments support a broad range of interchangeable accessories, enabling users to select and modify the setup best suited to their workflows. In addition, the GENESYS G5 family includes intuitive onboard software with optional application-focused packages available for both instrument and PC control.



GENESYS G5 Vis, UV-VIs, and UV-Vis PRO Spectrophotometers Built for reliable performance across evolving workflows

- All models come with a 7-inch high-resolution touchscreen, tiltable to reduce glare
- Flexible accessory connectivity can accommodate automated cell changers, Peltier systems, sippers, and fiber optic probes
- Automation options support efficient, high-throughput workflows
- Room light resistance enables lid-open operation for faster sample handling and improved convenience
- Integrated methods, reporting, networking, and export capabilities help simplify data management and collaboration

Instrument	Spectral region	Optics	Multi-cell changer capability	Fiber optic probe compatible	Bio method compatible	Potential use cases
GENESYS G5 Vis	Vis	Single beam	x			Teaching labs, QA/QC, food and beverage, industrial labs
GENESYS G5 UV-Vis	UV-Vis	Dual beam	x	x	x	Environmental, food and beverage, QA/QC, teaching labs
GENESYS G5 UV-Vis Pro	UV-Vis	Double beam	x (8-cell included)	x	x	Research labs, life sciences, QA/QC

Accessories and add-on software are available, with compatibility across all models

Notable features

- Intuitive 7-inch touchscreen designed for simplified operation
- Flexible connectivity including Wi-Fi, Bluetooth™, LIMS, and RESTful API integration
- Broad accessory compatibility to support evolving workflows
- Custom method creation for improved consistency and reproducibility
- Expandable software packages for application-focused workflows



Accessories that are designed to enable you to work smarter, not harder

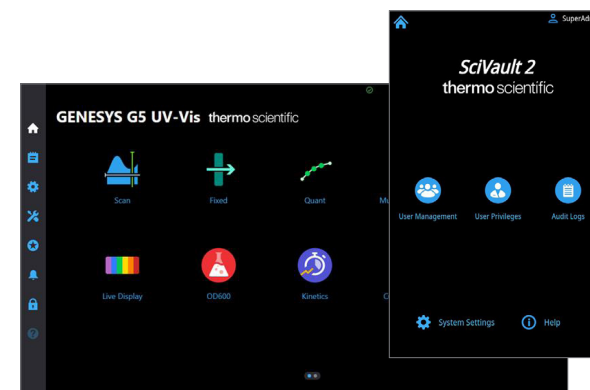
- We offer a wide variety of accessories to meet your measurement and high-throughput needs
- Cable-free, snap-in design allows for easy exchange of accessories
- Includes single and multi-cell options, temperature control, sipper systems, fiber optic probes, and more depending on your needs



Specialized software enhances analysis

Thermo Scientific™ GENESYS™ G5 Software supports diverse applications across life sciences, water, and food and beverage industries with pre-configured methods for analyses like DNA, RNA, protein quantification, and color measurement.

Optional PC control enhances advanced workflows, data handling, and reporting, while built-in compliance tools such as user access controls, digital signatures, and audit trails help ensure secure data management in regulated environments. All this comes within a flexible, scalable software platform.



Warranties, service plans, and compliance services for your continued success

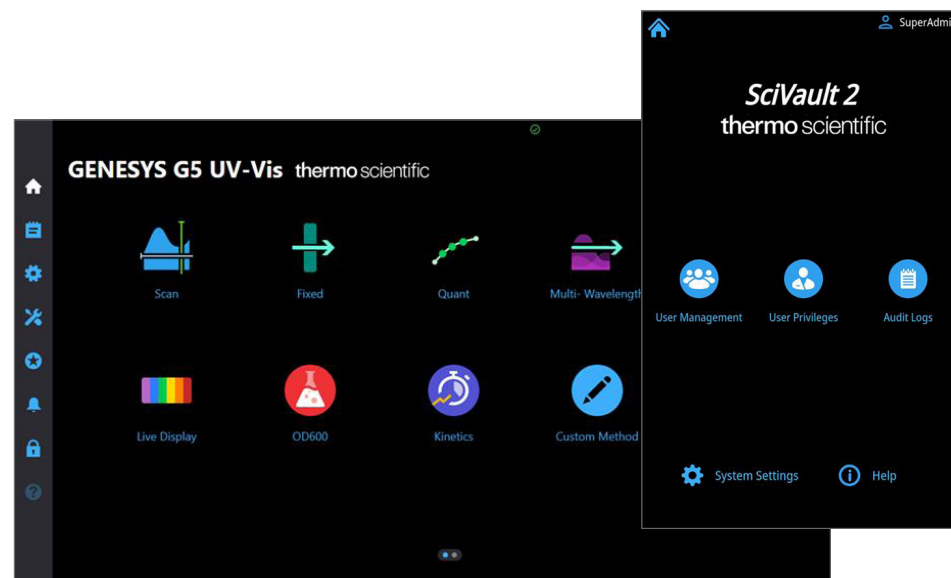
As part of Thermo Fisher Scientific, the world leader in serving science, our highly trained technical service professionals across the globe are ready to help you.

Each engineer who works on your instrument is OEM-factory trained and certified on that specific instrument, so you can be confident in your audit-readiness with regular service. You will receive consistent, high-quality maintenance and repair of your GENESYS G5 system with our world-class expertise.

Built for immediate productivity

GENESYS onboard software enables users to begin measurements quickly through intuitive touchscreen navigation and streamlined workflows. Core measurement modes including absorbance, quantitative analysis, kinetics, scanning, and OD600 are integrated into a unified user experience. Methods can be created, saved, and reused to improve consistency, simplify training, and support efficient operation across laboratories.

- Enhanced UI – Get up to speed quickly with intuitive touchscreen navigation
- Centralized applications – Access methods and add-ons in one place
- Custom workflows – Create, save, and reuse methods tailored to your needs
- Immediate productivity – Start measurements quickly with minimal training



The standardized GENESYS G5 platform shares workflows, software, and accessories across all models, helping laboratories simplify training, standardize operation, and adapt to evolving analytical needs.

GENESYS G5 models breakdown chart

Description		GENESYS G5 Vis	GENESYS G5 UV-Vis	GENESYS G5 UV-Vis Pro
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	<1.0 nm	<0.2 nm	
	Scan speed	Slow, medium, and fast (up to 1800 nm/min)	Slow, medium, and fast (up to 3500 nm/min)	
	Data resolution	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	–3.0 A to +3.0 A	–3.0 A to +3.5 A	
	Display	–3.0 A to +5.0 A		
	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	±0.001 A	
	Noise ²	≤0.001A at 0A ≤0.001A at 1A ≤0.002A at 2A	≤0.00050A at 0A at 260 and 500 nm, typical <0.00020 ≤0.00050A at 1A at 260 and 500 nm, typical <0.00030 ≤0.00080A at 2A at 260 and 500 nm, typical <0.00040	
	Drift ³	<0.002A/Hr	<0.0005A/Hr	
Stray light		<0.1%T at 340 nm and 400 nm	< 1.0%T 198 nm (KCl) , <0.05%T at 220 nm (NaI),<0.05%T at 340 nm (NaNO ₂)	
Baseline flatness		±0.003A	±0.002A	
Display		7-inch color touchscreen, tiltable, high definition, 800 x 1280 pixels		
Accessory support		Accommodates (optional): - 8-position cell changer - 4-position cell changer (long path cells) - Peltier thermostatted cell holder - Sipper accessory		Accommodates (optional): - 8-position cell changer (included) - 4-position cell changer (long path cells) - Peltier thermostatted cell holder - Sipper accessory
Printer		Snap-on printer available		
Connectivity		PC (optional software available), USB-A, USB-C, USB-B (for PC control), RJ-45, LIMS, Cloud, Bluetooth and WiFi (via add-on dongle)		
Languages		English, Chinese, German, French, Italian; Japanese, Spanish, Polish, Korean, Thai		
Dimensions		376 * 347 * 218 (mm, W*D*H)		
Weight		8.1 kg	8.3 kg	
Power requirements		100–240 VAC, 50/60 Hz		
Warranty		2 years		

1. Measured at 1.0A at 546 nm

2. RMS at 500 nm, 15 consecutive measurements

3. At 500 nm. 2 hours warmup for Vis, 1 hour warmup for UV-Vis

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