Agilent

Trusted Answers

Build Confidence in Every UV-Vis Measurement

With the Agilent Cary UV-Vis portfolio







One portfolio. Every UV-Vis workflow.

From routine quality control to advanced characterization and regulated analysis

Whether your laboratory requires reliable routine UV-Vis measurements or advanced characterization and temperature-controlled studies, the Agilent Cary UV-Vis portfolio provides a solution designed to match your workflow, performance requirements, and compliance needs.



Build confidence with a complete UV-Vis solution

From routine absorbance measurements and regulated testing to biomolecular characterization and temperature-controlled studies, the Cary UV-Vis portfolio provides scalable solutions designed to meet your analytical needs today and tomorrow.

Agilent Cary UV-Vis portfolio instruments



Agilent UV-Vis software and data analysis tools



Agilent UV-Vis consumables and accessories



Find the right UV-Vis system for your laboratory

For laboratories focused on routine quality control testing, regulated pharmaceutical analysis, or advanced biomolecular characterization, the Cary UV-Vis portfolio offers solutions designed to match your workflow, performance requirements, and future growth.

Agilent OpenLab



Your laboratory needs...	Agilent Cary 60 UV-Vis spectrophotometer	Agilent Cary 3500 UV-Vis spectrophotometer series
Routine UV-Vis measurements across QC, education, and research laboratories, with advanced reporting and method development	Scan, concentration, and kinetics applications with built-in calculations	Scan, concentration, kinetics, and thermal applications with pass/fail criteria and custom calculations
High-throughput measurements and temperature-controlled studies for biomolecules and fast kinetics	• Sequential multicell measurements (18 positions) • Thermostatted temperature control • Up to 80 data points/s	• Simultaneous multicell measurements (8 position) at multiple temperatures with temperature ramping. • Peltier temperature control with stirring capability • Up to 250 data points/s
Flexible sampling options, from microvolume, sipper flow cell pump, long pathlength measurements and remote sampling	• TrayCell and ultra-micro cuvette compatibility • Single-channel sipper pump • Long path-length measurements up to 100 mm • Fiber-optic coupler	• TrayCell and ultra-micro cuvette compatibility • Three-channel sipper pump • Long pathlength measurements up to 100 mm
Tools for implementation in GMP or other regulated laboratory environments	Supports USP <857>, Ph. Eur. 2.2.25	Agilent OpenLab compatible with support for USP <857>, Ph. Eur. 2.2.25, and JP XVIII
Flexibility for custom workflows	Applications development language (ADL)	Software development kit (SDK) integration and automation capabilities
Low cost of ownership	Xenon flash lamp technology designed to typically last the lifetime of the instrument, backed by a 10-year warranty	Xenon flash lamp technology designed to typically last the lifetime of the instrument, backed by a 10-year warranty
Solid sample transmission and diffuse reflectance measurements	Supports transmission measurements using a solid sample holder and diffuse reflectance measurements using the diffuse reflectance accessory (DRA).	Supports solid sample transmission measurements using the Cary 3500 Flexible UV-Vis module

Instrument specifications at a glance











	Cary 60 UV-Vis spectrophotometer	Cary 3500 Compact UV-Vis spectrophotometer	Cary 3500 Multicell UV-Vis spectrophotometer	Cary 3500 Flexible UV-Vis spectrophotometer
Design	Dual beam	Double beam		
Monochromator	Czerny-Turner	Double out-of-plane Littrow monochromator		
Detector	Two silicon photodiode	Two silicon photodiode (Compact/Flexible) Eight silicon photodiode (Multicell)		
Light Source	Xenon flash lamp (80 Hz) with 10-year warranty on new instruments	Xenon flash lamp (250 Hz) with 10-year warranty on new instruments		
Wavelength Range	190–1100 nm	190–1100 nm		
Spectral Bandwidth	1.5 nm fixed	0.1–5.0 nm variable		
Photometric Range (Abs)	4 Abs	4 Abs	4 Abs	6 Abs
Maximum Scanning Speed	UV-Vis 24,000 nm/min	UV-Vis 150,000 nm/min		
Z-height	20 mm	15 mm		
Agilent Control and Compliance Software	Cary WinUV Cary WinUV Pharma	Cary UV Workstation OpenLab Software Suite	Cary UV Workstation Cary 3500 Multizone Add-on OpenLab Software Suite	Cary UV Workstation OpenLab Software Suite
Depth	567 mm	435 mm	700 mm	700 mm
Height	196 mm	280 mm	280 mm	345 mm
Width	477 mm	445 mm	445 mm	445 mm
Weight	18 kg	24 kg	34 kg	31 kg

Supporting UV-Vis deployment in regulated laboratories

Agilent OpenLab





Regulation or standard	Requirement	Cary 60 UV-Vis spectrophotometer	Cary 3500 UV-Vis spectrophowtometer series
21 CFR Part 11 and EU Annex 11	User access accounts	Inbuilt	Inbuilt or Active Directory
	Configurable application-access levels and user permissions	✓	✓
	Electronic signature workflows	✓	✓
	Data integrity and traceability through system and application audit trails	✓	✓
	Secure database for application, method, and result files	✓	✓
United States Pharmacopeia (USP) <857>, European Pharmacopoeia (Ph. Eur.) 2.2.25	Resolution	✓	✓
	Stray light	✓	✓
	Photometric accuracy and precision	✓	✓
	Wavelength accuracy and precision	✓	✓
Japanese Pharmacopoeia (JP) XVIII	Wavelength Calibration	—	✓
	Transmission Rate or Absorbance Calibration	—	✓
	Photometric Linearity	—	✓
Software	Software and data-management	Cary WinUV Pharma with SCM/SDA	Cary UV Workstation with OpenLab

Deliver confidence across every UV-Vis workflow

Cary 60 UV-Vis: Reliable performance for routine laboratory workflows

Designed for laboratories requiring reliable UV-Vis measurements with simple operation, low maintenance, and proven performance.

Best suited for:

- Routine QC testing
- Standard absorbance measurements
- Educational laboratories
- Environmental analysis
- Food, beverage, and color analysis
- Laboratories seeking a proven, cost-effective solution



Key advantages:

- Proven performance for routine UV-Vis testing and quality control
- Fast startup and virtually maintenance-free operation with xenon flash lamp technology
- Excellent photometric performance for everyday absorbance measurements
- Supports a wide range of sample types, including liquids, solids, and remote sampling applications
- Flexible accessory portfolio to adapt to changing laboratory requirements
- Efficient sequential measurement of up to 18 samples for higher routine laboratory throughput
- Variable path-length measurements up to 100 mm for low-concentration analysis
- Backed by a 10-year lamp warranty



Remote sampling with fiber optics



Diffuse reflection measurements with DRA



High sample throughput with 18-cell changer accessory

Deliver confidence across every UV-Vis workflow

Cary 3500 UV-Vis: Advanced performance for modern analytical laboratories

Built on a modular architecture that enables advanced workflows, higher productivity, and temperature-controlled measurements.

Best suited for:

- (Bio)Pharmaceutical laboratories
- Regulated environments
- Biomolecular characterization
- Thermal melting studies
- Advanced kinetics applications
- Method development
- Water, environmental, and food analysis
- Automated workflows and software integration

10 Year
Xenon Flash Lamp
Replacement Warranty



Key advantages:

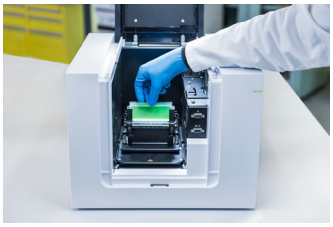
- Enhanced photometric performance for both dilute and highly concentrated samples
- Improved data collection speeds of up to 250 data points per second
- Simultaneous measurement of up to seven samples for increased productivity
- Independent temperature control of up to four zones for parallel experiments
- Integrated air-cooled Peltier temperature control with programmable temperature ramping
- Dedicated thermal melt workflows for oligonucleotide characterization
- OpenLab-compatible compliance and data integrity solutions for regulated laboratories (21 CFR Part 11 and EU Annex 11).
- Modular platform that can be configured and expanded to meet evolving application needs
- Backed by a 10-year lamp warranty



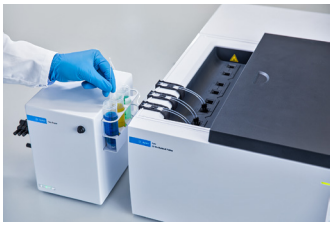
High sample throughput with up to seven samples measured simultaneously



Accurate thermal melt analysis of oligonucleotides



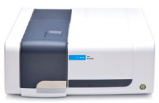
Enhanced sensitivity through long path-length measurements



Minimize handling of hazardous samples with the Agilent Cary Sipper flow cell pump

Additional resources

Visit our **UV-Vis applications guide** to explore common UV-Vis spectrophotometer uses, measurement techniques, industry-specific workflows, and application notes that help you get more from your UV-Vis analysis.



Cary 60 UV-Vis





Cary 3500 UV-Vis



Cary UV Workstation software

Learn more:
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