

The Thermo Scientific GENESYS 6 is an affordable, easy-to-use, and reliable UV-Visible spectrophotometer designed to meet the requirements of laboratories performing routine analysis. This 1.8 nm spectral bandwidth instrument provides pharmaceutical compliance and enhanced resolution for demanding applications.

## GENESYS 6

Unmatched reliability for traditional analysis with enhanced resolution



For over 60 years, customers in world renowned research institutions, industrial QA/QC laboratories, and teaching institutions have relied on Thermo Scientific UV-Visible spectrophotometers. The GENESYS series has set the standard for ease-of-use and reliability.

The reliability of the GENESYS 6, combined with a comprehensive selection of accessories and software tools, provides an ideal solution for a wide range of QA/QC and teaching laboratories.

### Designed for Reliability and Precision

The patented optical design provides a compact, high-performance system with

very few moving parts and a long lifetime xenon lamp covering the full UV-Visible wavelength range. The dual-beam optical system provides enhanced stability by incorporating an internal reference detector.

### Software Flexibility

The GENESYS 6 offers the flexibility of a large built-in graphical display and contact-sensitive SoftKeys for maximum ease-of-use. Software can also control the instrument for more complex analysis. Whether your methods require quantitative analysis, wavelength scanning, fixed multi-wavelength measurements, kinetics, color or other more advanced calculations, the GENESYS 6 is the right choice.



# Cost-Effective UV-Visible Spectrophotometer for Quality Control Laboratories

## Intuitive Design Provides Maximum Ease-of-use

The simple, intuitive built-in keyboard and graphically displayed SoftKeys ensure that the most routine measurements require only a few keystrokes. Using a simple, 3-step process gives you easy access to routine absorbance or transmission data. Add two extra keystrokes to make a concentration measurement in the units of your choice. The unique SmartStart™ feature allows you to place the most frequently used methods on the first screen each time the instrument is turned on. SmartStart makes training users simple and provides easy access to the laboratory tests you use every day.

## More Bench Space

The compact design saves valuable bench space and leaves more room for additional laboratory equipment. A built-in printer delivers high-quality printouts of data and graphics without increasing the system footprint.

## Low Cost of Ownership

The GENESYS 6 is designed for routine use and maximum reliability. The xenon lamp provides excellent performance over the full wavelength range of 190-1100 nm. Guaranteed for 3 years of continuous use, the xenon light source will provide many years of maintenance-free performance. The lamp may not need replacing over the entire lifetime of the instrument, as it is only on when taking a measurement.

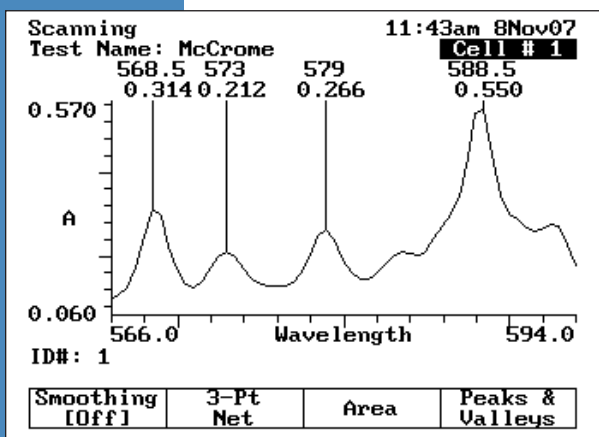
## Automatic Cell Changer Accessory Saves Time

The 6-cell changer on the GENESYS 6 provides built-in sample automation. One position is designated for the blank, leaving space for the automatic analysis of up to 5 samples. The cell changer automatically interacts with all built-in Local Control and



Enhance your sensitivity and productivity with the automatic measurement of up to 3 long pathlength cell holders

software applications. It can easily be removed and replaced with other optional accessories such as long pathlength cell holders, test tube holders, a Peltier single cell holder, a solid sample holder, sipper systems, and fiber optic accessories. The nanoCell accessory provides the flexibility of small volume liquid measurement with 1 µL of solution and allows highly concentrated liquids to be measured.



Built-in graphical labeling of peaks provides fast and easy wavelength scanning analysis



## Comprehensive Local Control Software

The GENESYS 6 offers a comprehensive suite of built-in applications for routine analysis and teaching. Built-in software applications include a continuous live display of:

- Absorbance, Transmittance, or Concentration
- Absorbance ratio/absorbance difference
- Quantitative analysis with up to 15 standards
- Fixed multi-wavelength analysis for up to 31 wavelengths
- Kinetics
- Wavelength scanning
- Performance verification

The wavelength scanning application provides the flexibility to scan at various scan speeds, label peaks/valleys, and report specific wavelengths for routine QC applications. Easy graph data scaling and a built-in 3-point net calculation for sloping baseline corrections is provided in the standard software.

## Performance Validation

Built-in performance verification provides an easy and automated tool for checking your instrument performance. In accordance with Good Laboratory Practice (GLP), each verification report gives the time, date, and instrument serial number. The wavelength accuracy test is compatible with either the

internal lamp or external calibrated standards. The xenon lamp provides a cost-effective primary standard for wavelength accuracy and repeatability tests. Additional built-in tests allow you to monitor other instrument performance specifications including photometric accuracy, noise, and stray light.

Certified and traceable standards are available for verifying the photometric accuracy, linearity, wavelength accuracy, stray light, and resolution of your GENESYS 6 spectrophotometer system.



Fiber optic probes increase sample throughput and allow the measurement of small volume, highly concentrated, or other difficult samples

## Additional Flexibility with Application Software

A range of software programs are available for the GENESYS 6 series instruments.

- The standard instrument control software, VISION/ite™, consists of applications for wavelength scanning, fixed multi-wavelength analysis, quantitative analysis and kinetics.
- For food and beverage customers, EnzLab, an analyzer software application for enzymatic food analysis is available.
- Industrial liquid color and transmission color measurements can be performed using the VISION/ite ColorCalc software.
- Luminous transmittance of sunglasses and other optical materials is available with the VISION/ite MaterialsCalc software.

Each of these application software packages completely controls the GENESYS 6 series spectrophotometer and appropriate accessories.

## Accessories for Your Sample



Single-Cell Peltier



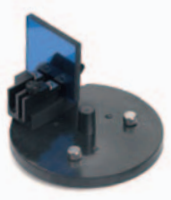
Liquid Thermostatted Single Cell Holder



Long Pathlength Cylindrical Cell Holder



nanoCell



Solid Sample Holder



VERSA Fiber Optic Probe



Long Pathlength 100 mm Rectangular Cell Holder



Long Pathlength 50 mm Rectangular Cell Holder



Sipper Accessory

## GENESYS 6 UV-Visible Spectrophotometer (Part Number 335908 Series)

Optical Design	Dual Beam
Spectral Bandwidth	1.8 nm
Light Source	Xenon
Detector	Dual Silicon Photodiodes
Wavelength	
Range	190 – 1100 nm
Accuracy	± 1.0 nm
Repeatability	± 0.5 nm
Slew Speed	11,000 nm/min
Scanning Speed	10 – 3,200 nm/min
Data Interval	0.1, 0.2, 0.5, 1.0, 2.0, 5.0 nm
Photometric	
Range	- 0.1 – 3.0A; 0.3 – 125%T; ± 9999 C
Readout	Absorbance, % Transmittance, Concentration
Accuracy	0.5% or 0.005A, whichever is greater, up to 2A
Noise	< 0.001A at 0A; < 0.002A at 2A, peak-to-peak at 340 nm
Drift	< 0.001A/hour
Stray Light	< 0.1%T at 220, 340, and 400 nm
Display	Graphical, 320 x 240 pixel LCD, 3.8" x 2.8"
Keypad	Sealed Membrane Keypad
Local Control Software	
	Absorbance, Transmittance, Concentration
	Standard Curve
	Absorbance Ratio
	Absorbance Difference
	Kinetics
	Full Range Scanning (190 - 1100 nm)
	3-point Net
	Multiwavelength
	Performance Verification Tests
	Cell Correction
	SmartStart program
Data Storage	Up to 150 methods
Printer (optional)	40 column internal graphics; parallel port output in HP PCL format (text and graphics)
Communications	Bi-directional RS232C
Languages	Software, printouts and operator's manual: English, French, German, Spanish, Italian (user selectable)
Power Requirements	Selected automatically; 100 – 240 Volts
Dimensions	33 W x 41 D x 23.5 H cm (13" x 16" x 9")
Weight	9.1 Kg (20.1 lb)
Warranty	1 year

[www.thermo.com/selectuv](http://www.thermo.com/selectuv)

©2008 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.



Thermo Electron Scientific Instruments LLC,  
Madison, WI USA is ISO Certified.

PS51493\_E 01/08M

**Africa** +43 1 333 5034 127  
**Australia** +61 2 8844 9500  
**Austria** +43 1 333 50340  
**Belgium** +32 2 482 30 30  
**Canada** +1 800 530 8447  
**China** +86 10 5850 3588

**Denmark** +45 70 23 62 60  
**Europe-Other** +43 1 333 5034 127  
**France** +33 1 60 92 48 00  
**Germany** +49 6103 408 1014  
**India** +91 22 6742 9434  
**Italy** +39 02 950 591

**Japan** +81 45 453 9100  
**Latin America** +1 608 276 5659  
**Middle East** +43 1 333 5034 127  
**Netherlands** +31 76 587 98 88  
**South Africa** +27 11 570 1840  
**Spain** +34 914 845 965

**Sweden/Norway/Finland**  
+46 8 556 468 00  
**Switzerland** +41 61 48784 00  
**UK** +44 1442 233555  
**USA** +1 800 532 4752  
[www.thermo.com](http://www.thermo.com)

**Thermo**  
SCIENTIFIC