

# UV-Vis spectroscopy solutions for research labs

Leveraging 60 years of spectroscopy experience, Thermo Scientific™ GENESYS™ UV-Vis spectrophotometers offer superior performance, walk-up convenience and a modern ergonomic design. With a broad range of accessories, the GENESYS UV-Vis spectrophotometers can meet nearly every need of academic research, QA/QC and R&D laboratories.

## Thermo Scientific™ GENESYS™ 150 UV-Vis Spectrophotometer

### Research quality measurements with routine simplicity

- Dual (split) beam optics for accuracy
- Xenon flash lamp flashes only during measurements saving power and lamp life
- High resolution, lab-glove-compatible touchscreen interface tilts to avoid glare
- Peltier thermostatted cell holder, sipper, 8-cell changer and fiber-optic dip probe accessories for advanced experimental needs
- Access favorite methods quickly with Smart Start operation
- Export data via USB, Ethernet, or Wi-Fi; print reports from on-board control via Ethernet or Wi-Fi



For life science labs, the Thermo Scientific™ BioMate™ 160 model includes all the features of the GENESYS 150 instrument plus pre-programmed life science methods. The GENESYS 150 is also available as a Visible-range instrument (Thermo Scientific™ GENESYS™ 140 Visible Spectrophotometer).

## Thermo Scientific™ GENESYS™ 180 UV-Vis Spectrophotometer

### High-throughput ready

Includes all of the features the GENESYS 150 instrument plus double beam optical design to correct for changing absorbance of your sample matrix; 8 cell changer included.



## Thermo Scientific™ GENESYS™ 50 UV-Vis Spectrophotometer

### Modern functionality for single cell analysis

- Tough fixed-position, high-resolution, lab-glove compatible touchscreen
- Rugged sample compartment; removable, washable liner for easy clean-up
- Support for cuvettes up to 100 mm pathlength and test tubes up to 150 mm tall and 25 mm diameter



Also available as a Visible-range instrument (Thermo Scientific™ GENESYS™ 40 Visible Spectrophotometer).

| Description                              | Part Number |
|--|-------------|
| GENESYS 40 Visible Spectrophotometer     | 840-297000* |
| GENESYS 50 UV-Visible Spectrophotometer  | 840-298000* |
| GENESYS 140 Visible Spectrophotometer    | 840-308000* |
| GENESYS 150 UV-Visible Spectrophotometer | 840-300000* |
| GENESYS 180 UV-Visible Spectrophotometer | 840-309000* |
| BioMate 160 UV-Visible Spectrophotometer | 840-301000* |

\*USA country power cable part numbers listed. For other countries, substitute last three numbers from 000 to: 100 = China • 200 = India/RSA • 300 = EU • 400 = UK • 500 = Aus/NZ

Also available for your research needs:

**Thermo Scientific™ Evolution 201/220 UV-Vis Spectrophotometer**  
**Flexibility and reliability for method development**



- Double beam optical design to correct for changing absorbance of the sample matrix
- Precisely known zero-time data and electronic in/out triggering deliver the highest level of accuracy for rapid-mixing kinetics measurements
- Cell changers and sipper are cable-free, snap-in Thermo Scientific™ Smart Accessories™ with auto-recognition and initialization to speed your analysis
- Selectable bandwidth option and Thermo Scientific™ INSIGHT™ software for 21 CFR Part 11 compliance

| Description  | Part Number |
|--|-------------|
| Evolution 201 UV-Visible Spectrophotometer, PC control | 840-210800  |
| Evolution 220 UV-Visible Spectrophotometer, PC control | 840-210600  |

Choose the right UV-Visible spectrophotometer for your research applications

| Feature  | GENESYS 50 UV-Vis**                                     | GENESYS 150 UV-Vis**  | GENESYS 180 UV-Vis  | Evolution 201/220 UV-Vis   |
|--|---|---|---|--|
| Applications   | For routine single-cell analysis                        | For labs with large numbers of samples or specialized accessory needs | For labs with large numbers of samples, specialized accessory needs or assays that require a reference cell | For labs that require sophisticated accessories or 21 CFR Part 11 compliance |
| Beam Geometry  | ← Dual Beam (internal reference correction) →           |   | Double Beam (both sample and reference cuvettes)  |  |
| Optical System   | ← Xenon Flash Lamp, Czerny-Turner Monochromator →       |   |   |  |
| Spectral Bandwidth   | 2.0 nm  | 2.0 nm  | 2.0 nm  | 1 nm (Evo 201); user-selectable (Evo220)                                     |
| Detector   | ← Dual Silicon Photodiodes →                            |   |   |  |
| Wavelength Range   | 190 – 1100 nm   |   |   |  |
| High-definition Color Display  | Yes   | Yes   | Yes   | Computer or tablet control   |
| Room-light Resistance  | No  | Yes   | Yes   | Yes  |
| Full Spectrum Scanning, Live Display, Fixed mode, Quant, Peak Pick, Kinetics | Yes   | Yes   | Yes   | Yes  |
| 21 CFR Part 11 Compliance  | No  | No  | No  | Yes  |
| Printer Options  | ← Snap-on printer and laser printer →                   |   |   | Print from INSIGHT PC software (optional)                                    |
| 8-cell Changer   | No  | Optional  | Standard  | Optional   |
| Supports Peltier, Fiber Probe  | No  | Yes   | Yes   | Yes  |
| Connectivity   | USB, Ethernet, Wi-Fi (optional)                         |   |   | PC control   |
| Performance Verification   | Yes   | Yes   | Yes   | Yes, Pharma capable  |
| Warranty   | ← 2-year warranty, 3rd year available when registered → |   |   | 1 year   |

\*\*GENESYS 40 and 140 Visible spectrophotometers includes Tungsten-Halogen lamp, 4.0 nm spectral bandwidth and a wavelength range of 325 - 1100 nm

Find out more at [thermofisher.com/genesys](http://thermofisher.com/genesys)

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