**Product Specifications**

**Spectronic GENESYS 6 UV-Visible Spectrophotometer**

- **Part Number**: 335908 Series
- **Optical Design**: Split-beam, grating-based, dual detectors
- **Spectral Bandwidth**: 1.8 nm
- **Lamp Source**: Xenon
- **Wavelength Range**: 190 – 1100 nm
- **Accuracy**: ± 1.0 nm
- **Repeatability**: ± 0.5 nm
- **Photometric Range**: - 0.1 – 3.0 A; 0.3 – 125% T; ± 9999 C
- **Readout**: Absorbance, Transmittance, Concentration
- **Accuracy**: 0.5% or 0.005 A, whichever is greater, up to 2 A
- **Noise**: < 0.001 A at 0 A; < 0.002 A at 2 A, peak-to-peak at 340 nm
- **Drift**: < 0.001 A/hour
- **Stray Light**: < 0.1% T at 220, 340, and 400 nm
- **Scanning Speed**: 10 – 2,000 nm/min
- **Slew Rate**: 11,000 nm/min
- **Scanning Sampling Interval**: 0.1, 0.2, 0.5, 1.0, 2.0, 5.0 nm
- **Cell Holder**: Automatic 6-cell changer
- **Graphic Display**: 320 x 240 pixel LCD, 96.5 x 71 mm (3.8” x 2.8”)
- **Keypad**: Sealed membrane
- **Software**: Absorbance, Transmittance, Concentration, Standard Curve, Absorbance Ratio, Absorbance Difference, Kinetics, Survey Scan (full range scanning), 3-point Net, Multiwavelength
- **Performance Validation**: Cell Correction, SmartStart™
- **Disc Drive**: 3 1/2” floppy; 1.44 Mb
- **Test Storage**: Up to 80 tests in non-volatile memory; floppy disk
- **Data Storage**: Floppy disk
- **Printer (optional)**: 40-column internal, graphical
- **Output**: Bi-directional RS232C (text only); parallel port output in HP PCL format (text and graphics)
- **Languages**: (user selectable) Software, printouts and operator’s manual: English, French, German, Spanish, Italian
- **Power Requirements**: Selected automatically; 100 – 240 Volts
- **Dimensions**: 330 W x 410 D x 235 H mm (13” x 16” x 9”)
- **Weight**: 9.1 Kg (20.1 lb)
- **Warranty**: 1 year

Whether used in industries such as food and beverage, pharmaceutical, chemical or biochemical research and production, you can count on Thermo Scientific spectrophotometers to deliver accurate, reliable results every time.
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**Product Specifications**

**Optical Design**
- Split-beam, grating-based, dual detectors

**Spectral Bandwidth**
- 1.8 nm

**Lamp Source**
- Xenon

**Wavelength Range**
- 190 – 1100 nm

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**Keypad**
- Sealed membrane

**Software**
- Absorbance, Transmittance, Concentration
- Standard Curve
- Absorbance Ratio
- Absorbance Difference
- Kinetics
- Survey Scan (full range scanning)
- Scanning speed: 10 – 2,000 nm/min
- Sampling interval: 0.1, 0.2, 0.5, 1.0, 2.0, 5.0 nm
- 3-point Net
- Multiwavelength

**Performance Validation**
- Cell Correction
- SmartStart™ program

**Disc Drive**
- 3 1/2" floppy; 1.44 Mb

**Test Storage**
- Up to 80 tests in non-volatile memory; floppy disk

**Data Storage**
- Floppy disk

**Printer**
- (optional) 40-column internal, graphical

**Output**
- Bi-directional RS232C (text only); parallel port output in HP PCL format (text and graphics)

**Languages**
- (user selectable) Software, printouts and operator’s manual: English, French, German, Spanish, Italian (user selectable)

**Power Requirements**
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**Dimensions**
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**Weight**
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**Warranty**
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Whether used in industries such as food and beverage, pharmaceutical, chemical or functional, research or production, you can count on the proven performance of Thermo Electron Corporation spectrophotometers to deliver accurate, reliable results every time.
Spectronic GENESYS 6 UV-Visible Spectrophotometer

### Product Specifications

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**Spectral Bandwidth**: 1.8 nm

**Lamp Source**: Xenon

**Wavelength Range**: 190 – 1100 nm

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**Graphic Display**: 320 x 240 pixel LCD, 96.5 x 71 mm (3.8” x 2.8”)

**Keypad**: Sealed membrane

**Software**

- Absorbance, Transmittance, Concentration
- Standard Curve
- Absorbance Ratio
- Absorbance Difference
- Kinetics
- Survey Scan (full range scanning)
  - Scanning speed: 10 – 2,000 nm/min
  - Sampling interval: 0.1, 0.2, 0.5, 1.0, 2.0, 5.0 nm
- 3-point Net
- Multiwavelength

**Performance Validation**

- Cell Correction
- SmartStart™ program

**Disc Drive**: 3 1/2” floppy; 1.44 Mb

**Test Storage**: Up to 80 tests in non-volatile memory; floppy disk

**Data Storage**: Floppy disk

**Printer**: (optional) 40-column internal, graphical

**Output**

- Bi-directional RS232C (text only)
- Parallel port output in HP PCL format (text and graphics)

**Languages**: (user selectable) Software, printouts and operator’s manual: English, French, German, Spanish, Italian (user selectable)

**Power Requirements**: Selected automatically; 100 – 240 Volts

**Dimensions**: 330 W x 410 D x 235 H mm (13” x 16” x 9”)

**Weight**: 9.1 Kg (20.1 lb)

**Warranty**: 1 year

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Whether used in industries such as food and beverage, pharmaceutical, chemical or biochemical research and production, you can count on this full range scanning spectrophotometer to deliver accurate, reliable results every time.
The Spectronic GENESYS 6 spectrophotometer is designed to meet the needs of today's sophisticated laboratory. With its high sensitivity and built-in auto cell changer, this instrument is ideal for routine and complex testing. Whether you're working in a clinical laboratory, pharmaceutical company, or research institution, the GENESYS 6 provides the accuracy and reliability you need.

Key Features:
- **High Sensitivity**: Used for increased measurement sensitivity
- **Scanning**: Selectable tubing and pump time accommodates
- **Built-in, 6-position auto cell changer increases sample throughput**
- **Holds up to three 50 mm pathlength cells in one position**
- **Built-in printer delivers high-quality printout of data**
- **Built-in or external printer prevents errors in transcription**
- **Software meets requirements from regulatory agencies**
- **Optical glass or quartz flowcell**
- **Compact design gives you plenty of room for other equipment**
- **Reliable, proven technology minimizes costly repairs**
- **Chemically resistant cover and sealed keypad keep your instrument running, regardless of accidental spills**
- **Built-in floppy disc drive and RS232C port provide accurate and safe data transfer throughput**
- **Always shows active position on display**
- **Includes unique Cell Correction feature**
- **User-friendly software and easy-to-use keypad mean that anyone, regardless of expertise, can use the instrument**

Advanced Design for High Performance
- The Spectronic GENESYS 6 spectrophotometer has been designed to provide the highest possible performance. It features a scan range of 190 - 1100 nm and automatic zero and span adjustments, ensuring accurate readings every time.

Additional Features:
- **Graphical internal printer**: Ideal for Good Laboratory Practice (GLP) compliance
- **Data output options (printer, RS232C or floppy disk)**: No longer need to manually record results
- **User-friendly software and easy-to-use keypad**: Anyone can operate the spectrophotometer with ease
- **Data manipulation features**: Allow you to set up, save, then lock your tests -- preventing accidental alterations to your setup
- **No heat**: Drift is virtually nonexistent

Spectrophotometry
- **Optical glass or quartz flowcell**: Ideal for chemically resistant and non-toxic applications
- **Compares with a variety of proteins using PEG 600, formaldehyde or other reagents**
- **Fast scan time**: Up to 1024 scans/min

Easy Data Storage
- **Easy Data Storage**: Data is saved as an ASCII file, allowing you to transport data to another location
- **Data output options**: Printer, RS232C or floppy disk

Performance Validation
- **Comes with a certificate of accuracy and calibration**
- **Complies with USP 29 and ICH guidelines**

Software:
- **Spectronic Standards, NTRMs or third-party standards required**
- **Prepares and saves curves with up to 15 standards**
- **Measures and displays up to 9999 samples, values outside user-defined ranges are displayed as “—”**
- **Offers option of pre-set or defined units**

Standard Curve
- **Saves and recalls standard curves for big savings**
- **Records scans between 10 – 2,000 nm/min**
- **Repeatability and precision are ±0.0005 absorbance at 1 nm**
- **Includes UV and visible emission lines**

Automation
- **Automatically documents your results**
- **Improves system stability by directing a portion of the light to a reference detector**

Testing
- **Holds test tubes up to 102 mm tall and 25 mm in diameter and for added flexibility can hold two 100 mm test tubes**
- **Polystyrene cuvettes, including microcells**

Software Design
- **Enhance Your Results**: Spectronic Standards, NTRMs or third-party standards required
- **Improves accuracy and precision**
- **Standard Curve Graphs**: Visualize your data and see trends
- **Performs calculations on absorbance differences**
- **Calculates reaction rates in delta A per minute and displays on the final results screen**
- **Calculates 3-point net and area-under-the-curve**
- **Measures and displays absorbances every 0.1 nanometer**

Additional Features:
- **Cuvette holders available for cells from 1 mm to 100 mm pathlength**
- **Program option is available in all test modes**
- **Segregation of results from measuring using Bausch & Lomb Specol plate reader**

Enhance Your Results:
- **Spectronics Standards, NTRMs or third-party standards required**
- **Prepares and saves curves with up to 15 standards**
- **Measures and displays up to 9999 samples, values outside user-defined ranges are displayed as “—”**

Software:
- **User-friendly software and easy-to-use keypad**: Anyone, regardless of expertise, can use the spectrophotometer with ease
**Longpath Cell Holder**

- Holds up to three 50 mm pathlength cells
- Software designed for use with Spectronic Standards and program option is available in all test modes.
- Available for rectangular or cylindrical cell
- Ideal for C.O.D. tubes and glassware
- Simple sipper systems speed up sample introduction – Recommended for microcells
- Meets requirements from regulatory agencies
- Holds test tubes up to 8 mm
- Optical glass or quartz flowcell
- Increased sample throughput
- Used to measure
- Spring-loaded and
- Selectable tubing and pump time accommodates
- key and the standard turret measures all positions automatically.

**Longpath Cell Holder**

- Used for increased measurement sensitivity
- Holds up to three 50 mm pathlength cells in
- Software designed for use with Spectronic Standards and program option is available in all test modes.
- Available for rectangular or cylindrical cell
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- Simple sipper systems speed up sample introduction – Recommended for microcells
- Meets requirements from regulatory agencies
- Holds test tubes up to 8 mm
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- Increased sample throughput
- Used to measure
- Spring-loaded and
- Selectable tubing and pump time accommodates
- key and the standard turret measures all positions automatically.
- Use increased measurement sensitivity with the Spectronic GENESYS program option available in all test modes.

- Built-in or external printer prevents errors in transcription and rescales and calculates rates over specified portions of the curve.

- Flashes – equivalent to years of operation.

- Software designed for use with Spectronic Standards.

- Software key and the standard turret measures all positions automatically.

- Sample sipper systems increase sample throughput, eliminating the need for several expensive cells and for manually cleaning cells between each measurement.

- Optical glass or quartz flowcell.

- One filter, test tube or longpath cell.

- Simple sipper systems speed up sample introduction – no tools required.

- Recommended for microcells.

- Uses full-size paper.

- Includes built-in UV and Visible emission lines for calibration purposes and generates no heat – drift is virtually nonexistent.

- Guaranteed for 2 x 10^9 years.

- Enhanced reliability. Best of all, this spectrophotometer provides all you have come to expect from the Spectronic GENESYS product line, including rugged, yet compact design, user-friendly software and unmatched reliability. Bear in mind this spectrophotometer provides all the functionality of an advanced instrument at an affordable price.

Advanced Design for High Performance

- Easy to use or as a reference in absorbance ratio analysis.

- Runs up to 30 scans with an accuracy of 0.1%.

- Range: 0.00 to 1.00 or 0.00 to 1,000 absorbance units.

- Long-lasting Xenon light source.

- Reliable, proven technology minimizes costly repairs.

- Chemically resistant cover and sealed keypad keep your instrument clean and wrinkle-free.

- Unrivaled reliability. Best of all, this spectrophotometer provides all you have come to expect from the Spectronic GENESYS product line, including rugged, yet compact design, user-friendly software and unmatched reliability.

- Auto cell changer allows you to load and measure several samples and then go on to another task.

- Single Cell Holder Platform.

- Filter Holders.

- Cell Correction.

- Flex UV-Visible Spectrophotometer.

- Spectral Bandwidth.

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