
JENWAY

# Spectrophotometers

UV-visible spectroscopy is the measurement of the absorbance of light at a specific wavelength by a sample within the UV or visible region of the spectrum. It is one of the oldest analytical techniques and is used to identify the presence and concentration of many molecular entities. As spectrophotometers are used in many applications and across multiple industries Jenway have five ranges of visible and UV/visible spectrophotometers, designed to suit a wide range of budgets.

# Selecting a Spectrophotometer

| Model | Visible | UV | Scanning beam | Single | Split beam | Double beam | Banwidth |
|---|---|---|---|---|---|---|---|
| 6300 | ✓ | - | - | ✓ | - | - | 8nm |
| 6305 | ✓ | ✓ | - | ✓ | - | - | 8nm |
| 6310 | ✓ | - | ✓ | ✓ | - | - | 8nm |
| 6315 | ✓ | ✓ | ✓ | ✓ | - | - | 8nm |
| Aquanova | ✓ | - | - | ✓ | - | - | 8nm |
| Genova | ✓ | ✓ | ✓* | ✓ | - | - | 5nm |
| 6400 | ✓ | - | ✓ | ✓ | - | - | 5nm |
| 6405 | ✓ | ✓ | ✓ | ✓ | - | - | 5nm |
| 6500 | ✓ | - | ✓ | - | ✓ | - | 1.8nm |
| 6505 | ✓ | ✓ | ✓ | - | ✓ | - | 1.8nm |
| 6700 | ✓ | - | ✓ | - | ✓ | - | 4nm |
| 6705 | ✓ | ✓ | ✓ | - | ✓ | - | 4nm |
| 6715 | ✓ | ✓ | ✓ | - | ✓ | - | 1.5nm |
| 6800 | ✓ | ✓ | ✓ | - | - | ✓ | 1.5nm |

*restricted scanning ±50nm of selected wavelength

There are five ranges of visible and UV/visible spectrophotometers offered by Jenway, which have been designed to suit a wide range of budgets, industries and applications.

The 63 series are entry-level spectrophotometers that range from the 6300 which is ideal for routine analysis to the 6315 UV/visible scanning spectrophotometer that includes spectrum, kinetics and quantitation modes.

The 64 series visible and UV/visible single-beam scanning spectrophotometers incorporate a wide range of features designed to satisfy the needs of users seeking to maximise the efficiency of routine and specialised spectroscopic procedures.

The 65 series are split-beam visible and UV/visible spectrophotometers with modes for photometrics, kinetics, quantitation, multi-wavelength analysis and spectrum scanning. They are designed to provide users with a high quality system, which offers many advanced post-analysis features required to process spectral information.

The 67 series is a range of split beam visible and UV/visible spectrophotometers that possess a host of novel features. These include a colour touchscreen, secure multi-user operation, a full range of plug-in accessory modules and flash synchronised scanning, which allows the 67 series to achieve scan speeds of 1500nm/min, even when scanning at a resolution of 0.1nm.

The 6800 is Jenway's first true double beam UV/visible spectrophotometer that possesses a robust, traditional design that is complemented by the clear and intuitive, Windows-based, Flight Deck PC software.

# Visible Spectrophotometers

| | 6300 | 6310 | 6400 | 6500 | 6700 |
|---|---|---|---|---|---|
| **Wavelength** | | | | | |
| Range | 320 to 1000nm | 320 to 1000nm | 320 to 1000nm | 320 to 1100nm | 320 to 1100nm |
| Bandwidth | 8nm | 8nm | 5nm | 1.8nm | 4nm |
| **Modes** | | | | | |
| Photometrics | ✓ | ✓ | ✓ | ✓ | ✓ |
| Spectrum scan | - | ✓ | ✓ | ✓ | ✓ |
| Scan speed (nm / min) | - | | 1400 | 1400 | 1500 |
| Kinetics | - | ✓ | ✓ | ✓ | ✓ |
| Quantitation | - | ✓ | ✓ | ✓ | ✓ |
| Multi-Wavelength | - | - | ✓ | ✓ | ✓ |
| **Data** | | | | | |
| Post-scan analysis | - | ✓ | ✓ | ✓ | ✓ |
| File output | - | - | Option | Option | csv or bmp |
| Removable media | - | - | - | | SD, SD/USB |
| PC Software | ✓ | ✓ | Option | Option | ✓ |
| Interface | Analogue RS232 | Analogue RS232 | Analogue RS232 | Analogue RS232 | Analogue Centronics USB |

# UV/Visible Spectrophotometers

| | 6305 | 6315 | 6405 | 6505 | 6705 | 6715 |
|---|---|---|---|---|---|---|
| **Wavelength** | | | | | | |
| Range | 198 to 1000nm | 198 to 1000nm | 190 to 1100nm | 190 to 1100nm | 190 to 1100nm | 190 to 1100nm |
| Bandwidth | 8nm | 8nm | 5nm | 1.8nm | 4nm | 1.5nm |
| **Modes** | | | | | | |
| Photometrics | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Spectrum scan | - | ✓ | ✓ | ✓ | ✓ | ✓ |
| Scan speed (nm / min) | - | | 1400 | 1400 | 1500 | 1500 |
| Kinetics | - | ✓ | ✓ | ✓ | ✓ | ✓ |
| Quantitation | - | ✓ | ✓ | ✓ | ✓ | ✓ |
| Multi-Wavelength | - | - | ✓ | ✓ | ✓ | ✓ |
| **Data** | | | | | | |
| Post-scan analysis | - | ✓ | ✓ | ✓ | ✓ | ✓ |
| File output | - | - | Option | Option | csv or bmp | csv or bmp |
| Removable media | - | - | - | - | SD, SD/USB | SD, SD/USB |
| PC Software | Supplied | Supplied | Option | Option | Supplied | Supplied |
| Interface | Analogue RS232 | Analogue RS232 | Analogue RS232 | Analogue RS232 Parallel | Analogue Centronics USB | Analogue Centronics USB |

# 6300 and 6320D Visible Spectrophotometers

- Wavelength range of 320 to 1000nm
- Absorbance, %T and concentration modes
- Multi-parameter display with wavelength and photometric readouts
- Wide range of sampling accessories
- Domed lid of 6320D accepts tubes up to 105mm tall

The 6300 is a high quality, low cost unit for spectrophotometric applications in schools and colleges, as well as in QC and testing procedures for a wide variety of services and industries. The 6320D is based on the 6300 platform and includes a domed lid which accepts taller tubes up to a height of 105mm.


6300

## Technical Specification

| | |
|---|---|
| **Wavelength** | |
| Range | 320 to 1000nm |
| Resolution | 1nm |
| Accuracy | ±2nm |
| Spectral bandwidth | 8nm |
| **Photometrics** | |
| Transmittance | 0 to 199.9%T |
| Absorbance | -0.300 to 1.999A |
| Accuracy | ±1%T |
| Resolution | 0.1%T, 0.001A |
| Stray light | <0.5%T |
| Noise | <1% |
| Stability | 1%/h after 15 minutes |
| **Concentration** | |
| Range | -300 to 1999 |
| Resolution | 0.1 to 1 |
| Units | ppm, mg/l, g/l, M, %, blank |
| Factor | 0 to 199.9, 1000 to 9999 |
| **Other** | |
| Light source | Tungsten halogen lamp |
| Outputs | Analogue and RS232 |
| Power | <50W |
| Size (w x d x h) | 365 x 272 x 160mm |
| Weight | 6kg |

## Ordering Information

| Part Code | Description |
|---|---|
| 630 501 | 6300 visible spectrophotometer supplied with mains lead, pack 100 disposable cuvettes, 10 x 10mm cell holder, interface cable and PC application software on CD-ROM* (230V/50Hz) |
| 632 501 | 6320D visible spectrophotometer supplied with mains lead and dual cell holder (for 10mm square cuvettes and 12.7mm diameter tubes) (230V/50Hz) |

* requires free on-line registration

6305

# 6305 UV/Visible Spectrophotometer

- Wavelength range of 198 to 1000nm
- Xenon lamp
- Easy and intuitive operation
- Absorbance, %T and concentration modes
- Multi-parameter display with wavelength and photometric readouts
- Wide range of sampling accessories

The 6305 is ideal for applications similar to the 6300 requiring measurements in the UV and visible wavelength ranges. Using a single, pulsed xenon lamp the 6305 offers an extended lamp life and high energy throughput in the UV and visible regions.

## Technical Specification

| | |
|---|---|
| **Wavelength** | |
| Range | 198 to 1000nm |
| Resolution | 1nm |
| Accuracy | ±2nm |
| Spectral bandwidth | 8nm, 6nm over UV range |
| **Photometrics** | |
| Transmittance | 0 to 199.9%T |
| Absorbance | -0.300 to 1.999A |
| Accuracy | ±1%T |
| Resolution | 0.1%T, 0.001A |
| Stray light | <0.5%T at 220 and 340nm |
| Noise | <0.001A at 0A at 400nm |
| Stability | <0.002A/h after 30 minutes |
| **Concentration** | |
| Range | -300 to 1999 |
| Resolution | 0.1 to 1 |
| Units | ppm, mg/l, g/l, M, %, blank |
| Factor | 0 to 199.9, 1000 to 9999 |
| **Other** | |
| Light source | Xenon lamp |
| Outputs | Analogue and RS232 |
| Power | <50W |
| Size (w x d x h) | 365 x 272 x 160mm |
| Weight | 6kg |

## Ordering Information

| Part Code | Description |
|---|---|
| 635 001 | 6305 UV/visible spectrophotometer supplied with mains lead, pack 100 disposable cuvettes, 10 x 10mm cell holder, interface cable and PC application software on CD-ROM* (230V/50Hz) |

* requires free on-line registration

# 6310 Visible Scanning Spectrophotometer

- Spectrum scanning across entire range from 320 to 1000nm
- Concentration measurements by direct factor or by quantitation using up to 6 standards
- Kinetics with real time graphical display of sample and standard
- Store up to 50 methods in each mode

The 6310 visible spectrophotometer introduces scanning, kinetics and quantitation modes to this highly successful format. Complete with method storage and supervisory control functions, the 6310 is ideal for routine testing in clinical, veterinary, pharmaceutical and QC laboratories.


6310

## Technical Specification

| | |
|---|---|
| **Wavelength** | |
| Range | 320 to 1000nm |
| Resolution | 1nm |
| Accuracy | ±2nm |
| Spectral bandwidth | 8nm |
| **Photometrics** | |
| Transmittance | 0 to 199.9%T |
| Absorbance | -0.300 to 1.999A |
| Accuracy | ±1%T |
| Resolution | 0.1%T, 0.001A |
| Stray light | <0.5% at 340nm |
| Noise | <0.001A at 0A at 400nm |
| Stability | <0.002A/h after 30 minutes |
| **Concentration** | |
| Range | -300 to 1999 |
| Resolution | selectable 1, 0.1, 0.01 or 0.001 |
| Calibration | Blank with a single standard or factor |
| **Quantitation** | |
| Range | -300 to 1999 |
| Resolution | Selectable 1, 0.1, 0.01 or 0.001 |
| Calibration | Blank with up to 6 standards |
| Curve correction | Linear regression, interpolation or linear regression through zero |
| **Kinetics** | |
| Display | Graphical and calculated concentration value |
| Calibration | Against standard and factor |
| Correlation factor | $r^2$ value displayed with result |
| **Spectrum** | |
| Range | Any range between 320 and 1000nm |
| Scan interval | 1, 2 or 5nm, selectable |
| Analysis | Absorbance and wavelength of peaks and valleys |
| **Other** | |
| GLP | Real time clock and calendar, Operator ID<br>Supervisor security (locks all set up parameters)<br>Method display lock |
| Light source | Tungsten halogen lamp |
| Outputs | Analogue and RS232 |
| Power | <50W |
| Size (w x d x h) | 365 x 272 x 160mm |
| Weight | 6kg |

## Ordering Information

| Part Code | Description |
|---|---|
| 631 001 | 6310 visible, scanning spectrophotometer supplied with mains lead, pack 100 disposable cuvettes, 10 x 10mm cell holder, interface cable and PC application software on CD-ROM* (230V/50Hz) |

* requires free on-line registration


6315

# 6315 UV/Visible Scanning Spectrophotometer

- Spectrum scanning across the entire range from 198 to 1000nm
- Pulsed xenon lamp
- Quantitation using up to 6 standards

The 6315 is an advanced spectrophotometer with modes for photometrics, spectrum scanning, kinetics, concentration and quantitation. The 6315 will meet the demands of a wide range of applications especially those in clinical, veterinary, environmental, general QC and performance testing areas. With a memory capacity of 50 methods for each mode, the fully open operating system ensures compatibility with reagent kits from most manufacturers as well as enabling full customisation.

## Technical Specification

| | |
|---|---|
| **Wavelength** | |
| Range | 198 to 1000nm |
| Resolution | 1nm |
| Accuracy | ±2nm |
| Spectral bandwidth | 8nm |
| **Photometrics** | |
| Transmittance | 0 to 199.9%T |
| Absorbance | -0.300 to 1.999A |
| Accuracy | ±1%T |
| Resolution | 0.1%T, 0.001A |
| Stray light | <0.5% at 340nm |
| Noise | <0.001A at 0A at 400nm |
| Stability | <0.002A/h after 30 minutes |
| **Concentration** | |
| Range | -300 to 1999 |
| Resolution | Selectable 1, 0.1, 0.01 or 0.001 |
| Calibration | Blank with a single standard or factor |
| **Quantitation** | |
| Range | -300 to 1999 |
| Resolution | Selectable 1, 0.1, 0.01 or 0.001 |
| Calibration | Blank with up to 6 standards |
| Curve correction | Linear regression, interpolation or linear regression through zero |
| **Kinetics** | |
| Display | Graphical and calculated concentration value |
| Calibration | Against standard and factor |
| Correlation factor | $r^2$ value displayed with result |
| **Spectrum** | |
| Range | Any range between 198 and 1000nm |
| Scan interval | 1, 2 or 5nm, selectable |
| Analysis | Absorbance and wavelength of peaks and valleys |
| **Other** | |
| GLP | Real time clock and calendar Operator ID<br>Supervisor security (locks all set up parameters)<br>Method display lock |
| Light source | Xenon lamp |
| Outputs | Analogue and RS232 |
| Power | <50W |
| Size (w x d x h) | 365 x 272 x 160mm |
| Weight | 6kg |

## Ordering Information

| Part Code | Description |
|---|---|
| 631 501 | 6315 UV/visible scanning spectrophotometer supplied with mains lead, pack 100 disposable cuvettes, 10 x 10mm cell holder, interface cable and PC application software on CD-ROM* (230V/50Hz) |

* requires free on-line registration

# Aquanova Environmental Spectrophotometer

- Dedicated to water and environmental testing
- Stores up to 300 test methods
- Pre-loaded with Jenway test kit methods
- Compatible with most commercially available photometric test kits
- Drag and drop test methods from a CD-ROM
- Create new tests using a simple factor or standard curve with up to 6 standards
- PC software included


**Aquanova**

The Aquanova spectrophotometer and test kits offer the simplest and most convenient laboratory system for measuring a broad range of parameters in water, wastewater, effluent and environmental samples. Although targeted to water and environmental analysis the Aquanova can be used as a standard single beam visible spectrophotometer by selecting the photometrics mode.

**Technical Specification**

| | |
|---|---|
| **Wavelength** | |
| Range | 320 to 1000nm |
| Resolution | 1nm |
| Accuracy | ±2nm |
| Spectral bandwidth | 8nm |
| **Photometrics** | |
| Transmittance | 0 to 199.9%T |
| Absorbance | -0.300 to 1.999A |
| Accuracy | ±1%T |
| Resolution | 0.1%T, 0.001A |
| Stray light | <0.5%T |
| Noise | <1% |
| Stability | <1%/h |
| **Concentration** | |
| Range | -300 to 1999 |
| Resolution | Selectable 1, 0.1, 0.01 or 0.001 |
| Units | blank, ppm, pH, mg/l, g/l, %, mg/kg, IFZ, HZ, mEq, U/ml, mU/l, U/l, µM, mM, M, µg/ml, mg/ml, µg/dl, g/dl, ng/dl, µg/l |
| Factor | 0.001 to 9999.999 |
| Calibration curve | Up to 6 standards |
| **Other** | |
| Test memory | 300 methods |
| Results memory | 50 results |
| Clock | Time (24 hour) and date |
| Timer | 1 second to 24 hours, 1second resolution, cal or save on time out |
| Light source | Tungsten halogen lamp |
| Outputs | Analogue and RS232 |
| Power | <50W |
| Size (w x d x h) | 65 x 272 x 160mm |
| Weight | 6kg |

**Ordering Information**

| Part Code | Description |
|---|---|
| 637 001 | Aquanova visible spectrophotometer supplied with mains lead, 9 way serial cable (013 203) and PC application software on CD-ROM (603 436) (230V/50Hz) |


Genova

# Genova Life Sciences Spectrophotometer

- Pre-programmed for DNA/RNA analysis
- DNA purity scan mode
- Pre-loaded protein concentration determination methods
- Standard spectrophotometer functions

The Genova allows the measurement of DNA concentrations and purity ratios using the wavelengths recorded at 260 and 280nm or 260 and 230nm with optional correction at a third wavelength. The purity scan gives a clear, graphic display of DNA purity. This allows any shifted or distorted peaks due to interfering molecules to be identified.

The Genova also contains five pre-programmed methods for the Bradford, Lowry, Biuret, Bicinchoninic acid (BCA) and Direct UV techniques. In all cases the standard procedures may be modified by the user or run as programmed.

## Technical Specification

| | |
|---|---|
| **Wavelength** | |
| Range | 198 to 1000nm |
| Resolution | 1nm |
| Accuracy | ±2nm |
| Repeatability | ±0.5nm |
| Spectral bandwidth | 8nm, 5nm typical at 270nm |
| **Photometrics** | |
| Transmittance | 0 to 199.9%T |
| Absorbance | -0.300 to 1.999A |
| Accuracy | ±1%T at 10%T |
| Resolution | 0.1%T, 0.001A |
| Stray light | <0.5%T at 220 and 340nm |
| Noise | <0.001A at 0A at 400nm |
| Stability | <0.002A/h after 30 minutes |
| **Concentration** | |
| Range | -300 to 9999 |
| Resolution | Selectable 1, 0.1, 0.01 or 0.001 |
| Units | ppm, mg/l, g/l, M, %, µg/l, µg/ml, mg/ml, ng/ml, blank (mode specific) |
| Factor | 0 to 199.9, 1000 to 9999 |
| **Spectrum** | |
| Range | Survey scan 50nm either side of set wavelength (250-950nm) |
| Scan interval | 1nm |
| Analysis | Absorbance and wavelength of peak |
| **Other** | |
| GLP | Real time clock and calendar, Operator ID<br>Supervisor security (locks all set up parameters)<br>Method display lock |
| Light source | Xenon lamp |
| Outputs | Analogue and RS232 |
| Power | <50W |
| Size (w x d x h) | 365 x 272 x 160mm |
| Weight | 6kg |

## Ordering Information

| Part Code | Description |
|---|---|
| 636 001 | Genova UV/visible life sciences spectrophotometer supplied with mains lead, 8 x 750µl UV plastic cuvettes and cell holder (230V/50Hz) |
| 636 005 | Genova UV/visible life sciences spectrophotometer supplied with TrayCell, mains lead, 8 x 750µl UV plastic cuvettes and cell holder (230V/50Hz) |

# Environmental Test Kits

**Ordering Information**

| Part Code | Description | Range | Number of Tests |
|---|---|---|---|
| 025 300 | Alkalinity m | 5 - 200mg/l $CaCO_3$ | 100 |
| 025 301 | Alkalinity p | 5 - 300mg/l $CaCO_3$ | 100 |
| 025 302 | Aluminium | 0.01 - 0.25mg/l | 100 |
| 025 303 | Ammonia | 0.02 - 1.0mg/l N | 100 |
| 025 304 | Ammonium LR | 0 - 2.5 mg/l N | 50 |
| 025 305 | Ammonium HR | 1 - 50 mg/l N | 50 |
| 025 306 | Bromine | 0.1 - 6.5 mg/l | 100 |
| 025 338 | Chloride | 0.5 - 25 mg/l | 100 |
| 025 307 | Chlorine (Free) | 0.05 - 3 mg/l | 100 |
| 025 308 | Chlorine (Total) | 0.05 - 3 mg/l | 100 |
| 025 309 | Chlorine Dioxide | 0.5 - 2.5 mg/l | 100 |
| 025 314 | Chromium (Hex) | 0.02 - 2 mg/l | 100 |
| 025 313 | Chromium (Total) | 0.02 - 2 mg/l | 100 |
| 025 312 | COD (HR) | 1000 - 15000 mg/l $O_2$ | 25 |
| 025 310 | COD (LR) | 0 - 150 mg/l $O_2$ | 25 |
| 025 311 | COD (MR) | 100 - 1500 mg/l $O_2$ | 25 |
| 025 316 | Copper (free) | 0.5 - 5 mg/l | 100 |
| 025 315 | Copper (Total) | 0.5 - 5 mg/l | 100 |
| 025 317 | Fluoride | 0.02 - 1.5 mg/l | 100 |
| 025 318 | Hardness Total | 2 - 50mg/l $CaCO_3$ | 100 |
| 025 320 | Hydrogen Peroxide | 0.5 - 1.5mg/l | 100 |
| 025 321 | Iodine | 0.05 - 3.6 mg/l | 100 |
| 025 322 | Iron (soluble) | 0.1 - 3mg/l | 100 |
| 025 323 | Manganese | 0.05 - 4mg/l | 100 |
| 025 324 | Molybdate | 0.5 - 30mg/l | 100 |
| 025 325 | Nitrate | 1 - 30 mg/l | 50 |
| 025 326 | Nitrite | 0.01 -0.5mg/l | 100 |
| 025 327 | Nitrogen Total (LR) | 0.5 - 25mg/l | 50 |
| 025 328 | Nitrogen Total (HR) | 5 - 150mg/l | 50 |
| 025 330 | Orthophosphate | 0.05 - 4mg/l | 100 |
| 025 329 | Oxygen Active | 0.1 - 10mg/l | 100 |
| 025 331 | pH | 6.5 - 8.4 | 100 |
| 025 332 | Potassium | 0.5 - 12 mg/l | 100 |
| 025 333 | Silica | 0.05 - 3mg/l | 100 |
| 025 334 | Sulphate | 2 - 100mg/l | 100 |
| 025 335 | Sulphide | 0.05 - 0.5mg/l | 100 |
| 025 336 | Sulphite | 0.05 - 4mg/l | 100 |
| 025 337 | Zinc | 0.02 - 1mg/l | 100 |

# 63 Series Accessories

## Cell Holders

**Order Information**

| Part Code | Description |
|---|---|
| 630 204 | 10mm path length cuvette holder |
| 630 005 | 10 to 100mm path length cuvette holder |
| 630 020 | Test tube holder (13mm diameter) |
| 630 021 | Test tube holder (25mm diameter) |
| 630 022 | Test tube holder (16mm diameter) |
| 634 001 | 4 position manual cuvette holder |
| 630 304 | Micro-cuvette holder with reduced aperture |
| 632 511 | Dual cell holder for 10mm cuvettes and 12.7mm diameter tubes (for use with 6320D only) |
| 637 071 | Aquanova cell holder |
| 636 024 | Cuvette holder adapter (7.5 to 15mm beam height) |

## Heated Cell and Sipper Pump Options

**Order Information**

| Part Code | Description |
|---|---|
| 632 001 | Sipper Pump (EU version) |
| 648 001 | Water heated single cuvette holder |
| 633 001 | Heated cuvette system supplied with interconnection cables and mains cable (EU, UK and US) |
| 037 201 | Water bath and circulator, ambient +5 to 50°C for use with 648 001 (230V) |

## Printers and PC Software

**Order Information**

| Part Code | Description |
|---|---|
| 050 501 | DataWay PC software, supplied with interface cables (Genova) |
| 037 551 | RS232 to USB converter for use with computers without a serial port |
| 543 001 | 40 column printer supplied with interface cable, paper roll and ribbon and UK power adapter |
| 060 287 | Paper roll for printer |
| 060 288 | Printer ribbon |
| 542 009 | Interface cable kit |

## Miscellaneous

**Order Information**

| Part Code | Description |
|---|---|
| 060 425 | 24mm diameter screw cap vial for use with Aquanova (pack of 24) |
| 060 426 | 16mm diameter screw cap vial for use with Aquanova (pack of 20) |
| 037 601 | Digester for COD determinations, includes 2 blocks for 12 COD tubes each (230V) |
| 037 603 | Digester block for 12 COD tubes |
| 060 422 | Moulded cuvette rack for 16 10 x 10mm cuvettes |
| 021 041 | DC/AC power converter (for 12V DC supply) |
| 035 088 | Visible Calibration Set (6300/6320D/6310/Aquanova) |
| 035 091 | UV/Visible Calibration Set (6305/6315/Genova and visible) |
| 630 028 | Dust cover |
| 033 290 | Storage/carry case (not for use with 6320D or Aquanova) |
| 012 094 | Xenon lamp module (6305/6315/Genova) |
| 012 075 | Tungsten halogen lamp (6300/6320D/6310/Aquanova) holder (230V/50Hz) |

# 6400 and 6405 Scanning Spectrophotometers

- 6400 Visible (320 to 1100nm)
- 6405 UV/Visible (190 to 1100nm)
- Single beam scanning units
- Easy to use keypad operation
- 5nm bandpass
- Wide range of accessories

The 64 series scanning units are ideal for all routine teaching, laboratory and research environments. Modes are available for photometrics, spectrum, kinetics, multi-wavelength analysis and quantitation* using standard curve methods. These units have full scanning capability with three scan speeds and intervals, baseline correction, instant display of scan, automatic axis scaling, peak and valley data display and capacity to store two scans.

Sample flexibility is a key feature, with cells from 100mm path length down to micro sample capacity being readily accommodated. To further increase flexibility a wide range of accessories are also available.
* requires 8 cell changer accessory

6400

**Technical Specification**

| | | |
|---|---|---|
| **Wavelength** | | |
| Range | 6400 | 320 to 1100nm |
| | 6405 | 190 to 1100nm |
| Resolution | | 0.1nm |
| Accuracy | | ±1.0nm |
| Spectral bandwidth | | 5nm |
| **Photometrics** | | |
| Transmittance | | 0 to 199.9%T |
| Absorbance | | -0.300 to 3.000A |
| Accuracy | | ±0.1%T at 10%T, ±0.005A at 1.0A |
| Resolution | | 0.1%T, 0.001A |
| Stray light | | <0.05% at 340nm |
| Noise | | <0.001A at 0A |
| Stability | | <0.001A/h after 15 minutes |
| **Concentration** | | |
| Range | | -300 to 9999 (resolution dependent) |
| Resolution | | Selectable 1, 0.1, 0.01 or 0.001 |
| Units | | ppb, ppm, µg/l, mg/l, M, %, blank |
| Factor | | 0.000 to 9999.99 |
| **Spectrum** | | |
| Range | | Any range between 320 (6400) or 190 (6405) and 1100nm |
| Scan speed | | Up to 1400nm/min |
| Scan interval | | 0.2, 1.0, 5.0nm |
| Analysis | | Absorbance or transmittance and wavelengths of peaks and valleys |
| **Other** | | |
| Light source | 6400 | Tungsten halogen lamp |
| | 6405 | Tungsten halogen and Deuterium lamps |
| Lamp changeover | | 320 to 390nm (6405) |
| Outputs | | Analogue and RS232 |
| Power | | 200VA |
| Size (w x d x h) | | 520 x 330 x 180mm |
| Weight | | 15kg |

**Ordering Information**

| Part Code | Description |
|---|---|
| 640 001 | 6400 visible, scanning spectrophotometer supplied with pack 100 disposable cuvettes and mains lead (230V/50Hz) |
| 640 501 | 6405 UV/visible, scanning spectrophotometer supplied with pack 100 disposable cuvettes and mains lead (230V/50Hz) |

6500

# 6500 and 6505 Scanning Spectrophotometers

- 1.8nm spectral bandwidth
- Split beam optics for high performance
- 8-position automatic cell changer supplied as standard
- Compatible with DataWay PC software
- Post scan analysis includes derivatives and spectral addition/subtraction

The Jenway 65 series are advanced split-beam spectrophotometers with modes for photometrics, kinetics, quantitation, multi-wavelength analysis and spectrum scanning. Comprehensive post-measurement and scan options make these very powerful stand alone instruments. Methods can be created and stored in the internal and removable memory along with any results generated. An 8-position motorised cell holder is included as standard, speeding up analysis, automating the creation of calibration curves and offering auto-log functions across all modes of operation.

## Technical Specification

| | | |
|---|---|---|
| **Wavelength** | | |
| Range | 6500 | 320 to 1100nm |
| | 6505 | 190 to 1100nm |
| Resolution | | 0.1nm |
| Accuracy | | ±1nm |
| Spectral bandwidth | | 1.8nm |
| **Photometrics** | | |
| Transmittance | | 0 to 199.9%T |
| Absorbance | | -0.300 to 3.000A |
| Accuracy | | ±0.1% at 10%T, ±0.005A at 1.0A |
| Resolution | | 0.1%T, 0.001A |
| Stray light | | <0.05%T at 220 and 340nm |
| Noise | | <0.001A at 0A |
| Stability | | <0.001A/h after warm-up |
| **Concentration** | | |
| Range | | -300 to 9999 (resolution dependent) |
| Resolution | | Selectable 1, 0.1, 0.01 or 0.001 |
| Units | | ppb, ppm, µg/l, mg/l, M, %, blank |
| Factor | | 0.000 to 9999.99 |
| **Spectrum** | | |
| Range | | Any range between 320 (6500) or 190 (6505) and 1100nm |
| Scan speed | | Up to 1400nm/min |
| Scan interval | | 0.2, 1.0, 5.0 and 10nm |
| Analysis | | Absorbance or transmittance and wavelengths of peaks and valleys, derivatives, addition, subtraction, smoothing, area under curve |
| **Other** | | |
| Languages | | English, French, German, Italian, Portuguese and Spanish |
| Light source | 6500 | Tungsten halogen lamp |
| | 6505 | Tungsten halogen and Deuterium lamps |
| Lamp changeover | | 320 to 390nm |
| Outputs | | Analogue and RS232 |
| Power | | 200VA |
| Size (w x d x h) | | 520 x 330 x 180mm |
| Weight | | 15kg |

## Ordering Information

| Part Code | Description |
|---|---|
| 650 001 | 6500 visible, scanning spectrophotometer supplied with serial mouse, mouse mat, pack 100 (3.5ml) disposable cuvettes, 8-position multi cell changer and mains lead (230V/50Hz) |
| 650 501 | 6505 UV/visible, scanning spectrophotometer supplied with serial mouse, mouse mat, pack 100 (3.5ml) disposable cuvettes, 8-position multi cell changer and mains lead (230V/50Hz) |

# 64 and 65 Series Accessories

## Cell Holders

| Part Code | Description |
|---|---|
| 646 001 | Universal test tube holder for 6400/6405 (P) |
| 646 002 | Universal test tube holder for 6400/6405 (F) |
| 630 005 | Universal cuvette holder, 10 to 100mm path length (F) |
| 634 001 | 4 position cuvette holder (6400/6405 only) |
| 644 001 | Eight-position motorised cuvette changer (P) |
| 644 002 | Eight-position motorised cuvette changer (F) |
| 644 003 | Eight-position rack for 10mm cuvettes |
| 644 103 | Eight-position rack for 40mm cuvettes |
| 644 203 | Eight-position rack for 50mm cuvettes |
| 645 001 | Vacuum pump (P) |
| 645 002 | Vacuum pump (F) |
| 630 304 | Micro-cuvette holder with reduced aperture |

## Heated Cell and Sipper Pump Options

| Part Code | Description |
|---|---|
| 642 001 | Sipper pump (P) |
| 642 002 | Sipper pump (F) |
| 633 001 | Heated cuvette system (cuvette holder and external control unit), supplied with interconnection cables and mains cables (EU, UK and USA) |
| 648 001 | Water heated single cuvette holder |
| 649 001 | Eight-position water jacketed cuvette holder (for 10mm cuvettes)* |
| 643 001 | Peltier heated cuvette system comprising heated cuvette block and external power supply module (230V/50Hz) (P) |
| 643 002 | Peltier heated cuvette system comprising heated cuvette block and external power supply module (230V/50Hz) (F) |
| 647 001 | Temperature controlled sipper system (230V/50Hz) (P) |
| 647 002 | Temperature controlled sipper system (230V/50Hz) (F) |
| 037 201 | Water bath and circulator, ambient +5 to 50°C for use with 648 001 and 649 001 (230V/50Hz) |

* When used with the 64 series part code 644 001 is also required

## Printers and PC Software

| Part Code | Description |
|---|---|
| 050 501 | DataWay PC software, supplied with interface cables |
| 037 551 | RS232 to USB converter for use with computers without a serial port |
| 543 001 | 40 column serial printer supplied with interface cable, paper roll, ribbon, and UK power adapter |
| 542 009 | Interface cable kit |
| 641 001 | Internal printer (P) |
| 641 002 | Internal printer (F) |
| 060 287 | Paper roll for printer 543 001 |
| 060 288 | Printer ribbon for 543 001 |
| 650 028 | Data card, 1Mb additional memory (6500/6505 only) |

## Miscellaneous

| Part Code | Description |
|---|---|
| 060 422 | Moulded cuvette rack for 16 10 x 10mm cuvettes |
| 035 088 | Visible range Calibration Standards (6400 and 6500) |
| 035 091 | UV/Visible Calibration Standards (6405 and 6505) |
| 640 133 | Dust cover |
| 012 075 | Tungsten halogen lamp (all models) |
| 640 508 | Deuterium lamp (6405 and 6505) |

(P) = Packed (F) = Factory fitted

6705

# 67 Series Visible and UV/Visible Scanning Spectrophotometers

- Colour touch screen display
- High quality, sealed split beam optics for optimum photometric performance
- Secure multi-user operation
- Save to SD/USB memory cards
- Enhanced productivity
- Extensive range of accessories for flexibility and improve productivity

All three instruments have modes for photometrics, spectrum scanning, multi-wavelength analysis, kinetics and quantitation, giving direct concentration results against single or multi-point calibrations. With extensive post measurement tools to ensure results are presented exactly to each users requirements the 67 series also offers significant advances in data portability.

Together, the touch screen and colour display give the fastest, most flexible instrument interface possible. Where fine cursor control is required, using the QWheel™ makes the task easy and precise.

Jenway have developed Secure Multi User Operation for when instruments are shared by a number of users, so access to the instrument functions is controlled through a secure log-in procedure. For maximum security PIN codes can be allocated to individuals, groups or departments and to further increase flexibility each method can be given three levels of security:

| | |
|---|---|
| Public | Access is free to all users. |
| Read only | Methods can be accessed by all users, but only modified by the originator. |
| Personal | Method can only be accessed by the logged in user |

The high capacity internal memory of the 67 series can be configured from 256MB, enabling over 1000 methods and results to be stored, up to 2GB, which stores more than 10,000 methods and results.

Removable SD or SD/USB memory cards further increases the flexibility and data transfer and enables the direct transfer of results to a PC via a USB port. Here all data can be viewed, exported, saved or printed for generating reports and standard operating procedures. Copying the SD card to the instrument's internal memory enables the easy cloning of multiple instruments, ensuring common laboratory practice and speeding set-up in busy teaching establishments.

QWheel is a registered trademark of Quantum Research

# 6700, 6705 and 6715 Visible and UV/visible Spectrophotometers

**Technical Specification**

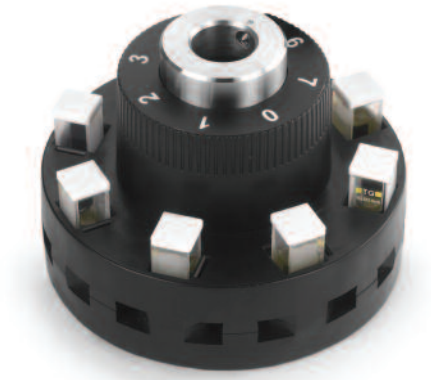
| | |
|---|---|
| **Wavelength** | |
| Range | 320 to 1100nm (6700)<br>190 to 1100nm (6705, 6715) |
| Resolution | 0.1nm |
| Accuracy | ±1.0nm |
| Repeatability | ±0.2nm |
| Spectral bandwidth | 4nm (6700, 6705)<br>1.5nm (6715) |
| **Photometrics** | |
| Transmittance | 0 to 199.9%T |
| Absorbance | -0.300 to 3.000A |
| Accuracy | ±0.005A at 1.0A |
| Resolution | 0.1%T, 0.001A |
| Stray light | <0.1%T at 340nm (6700)<br><0.05% at 220nm (6705, 6715) |
| Noise | <0.001 at 0A, <0.002 at 2A at 340nm |
| Stability | <0.001A/h after warm-up |
| **Quantitation** | |
| Range | -99999 to +99999 |
| Resolution | Selectable 1, 0.1, 0.01 or 0.001 |
| Calibration | Up to 20 with 5 replicates of each |
| Units | mEq/l, ppm, mg/l, g/l, %, µg/ml, mg/ml, g/dl, mg/dl, µg/l, ng/l, µg/dl, M, mM, µM, U/l, mU/l, U/ml, blank |
| Curve fit algorithms | Linear, quadratic and cubic functions |
| **Multi-wavelength** | |
| Data points | Up to 4 wavelengths |
| Calculations | Ratio, difference, formulae with factors |
| **Kinetics** | |
| Time limits | 0 to 9999 seconds |
| Calibration | Standard or factor |
| Analysis | Curve details with mean rate of change plus formula of line of best fit |
| **Spectrum** | |
| Range | Any range between 320 (6700) or 190 (6705, 6715) and 1100nm |
| Scan speed | 1500nm/min |
| Scan interval | 0.1nm |
| Analysis | Auto peaks and valleys, zoom, addition, subtraction, peak ratios, smoothing, area under curve, wavelength table, derivatives, analysis points, overlay |
| **Other** | |
| Light source | Tungsten halogen lamp (6700)<br>Xenon lamp (6705, 6715) |
| Configuration | Secure multi-user and free access |
| Number of users | 10 users + supervisor |
| Methods/results memory | >1000 on internal flash memory or removable media |
| Removable media | MM/SD memory card or SD/USB memory card |
| Outputs | USB, Centronics, Analogue |
| Size (w x d x h) | 490 x 390 x 220mm |
| Weight | 7.5kg |

**6700**

**67 Series**

# 6700, 6705 and 6715 Visible and UV/visible Spectrophotometers

Sample Holders



Eight Position Cuvette Holder

Modules

**Ordering Information**

| Part Code | Description |
|---|---|
| 670 0B0 | 6700 (320-1100nm) fitted with a single 10 x 10 mm cuvette holder |
| 670 0BP | 6700 (320-1100nm) fitted with a single 10 x 10 mm cuvette holder and internal thermal 40-column printer |
| 670 0A0 | 6700 (320-1100nm) fitted with an automated eight-position cuvette holder |
| 670 0AP | 6700 (320-1100nm) fitted with an automated eight-position cuvette holder and internal thermal 40-column printer |
| 670 5B0 | 6705 (190-1100nm) fitted with a single 10 x 10 mm cuvette holder |
| 670 5BP | 6705 (190-1100nm) fitted with a single 10 x 10 mm cuvette holder and internal thermal 40-column printer |
| 670 5A0 | 6705 (190-1100nm) fitted with an automated eight-position cuvette holder |
| 670 5AP | 6705 (190-1100nm) fitted with an automated eight-position cuvette holder and internal thermal 40-column printer |
| 671 5B0 | 6715 (190-1100nm) fitted with a single 10 x 10 mm cuvette holder |
| 671 5BP | 6715 (190-1100nm) fitted with a single 10 x 10 mm cuvette holder and internal thermal 40-column printer |
| 671 5A0 | 6715 (190-1100nm) fitted with an automated eight-position cuvette holder |
| 671 5AP | 6715 (190-1100nm) fitted with an automated eight-position cuvette holder and internal thermal 40-column printer |

NOTE: All 67 Series spectrophotometers come supplied with 1GB of internal memory, 1GB* SD/USB memory card, 100 disposable cuvettes, instruction manual, power cable and PC software on CD ROM with interface cable.

* Subject to change

# 67 Series Accessories

The 67 series has been specifically designed to enhance productivity and simply adding an accessory automatically sets the instrument operating parameters. The automated eight position and temperature controlled six position cell holders are the key to improved productivity. Using the dedicated Automation option up to seven samples can be measured sequentially with all results saved or printed automatically.

The Peltier controlled cuvette holder allows precise control of temperature control in the range of 20 to 50°C to a resolution of 0.1°C. A programmable sipper pump enables controlled volumes to be injected into micro and standard flow-through cuvettes. For sensitive applications a combined peltier sipper module is also available. A full range of passive sample holders can also be easily fitted.

## Cell Holders

| Part Code | Description |
|---|---|
| 660 801 | Single cell sample chamber module fitted with 10 x 10mm cuvette holder (630 204) |
| 660 401 | Sample chamber with automatic eight-cell changer module fitted |
| 660 403 | Additional carrousel for automatic eight-cell changer (for use with 660 401) |
| 660 503 | Additional carrousel for water heated automatic six-cell changer (for use with 660 501) |
| 660 901 | Single cell sample chamber module fitted with 10mm cuvette/16/24mm diameter tube holder (as Aquanova 637 071) |
| 661 001 | Single cell sample chamber module fitted with 10 x 100mm cuvette holder (630 005) |
| 661 101 | Single cell sample chamber module fitted with micro cuvette holder with reduced aperture (630 304) |
| 630 204 | 10mm path length cuvette holder |
| 637 071 | Aquanova cell holder (for 10mm square cuvettes, 16 and 24mm diameter tubes) |
| 630 005 | 10 to 100mm path length cuvette holder |
| 630 304 | Micro-cuvette holder with reduced aperture |

## Heated Cell and Sipper Pump Options

| Part Code | Description |
|---|---|
| 648 001 | Water heated single cuvette holder |
| 660 501 | Sample chamber with water heated automatic six-cell changer module fitted |
| 660 201 | Sample chamber with sipper module fitted |
| 660 301 | Sample chamber with Peltier module fitted |
| 660 701 | Sample chamber with sipper/Peltier module fitted |
| 661 201 | Single cell sample chamber module fitted with water heated cuvette holder (648 001)* |

## Printers and PC Software

| Part Code | Description |
|---|---|
| 660 101 | Internal printer (packed) |
| 037 702 | Paper roll for thermal printer |
| 019 130 | 256MB SD card for external memory |
| 019 131 | 512MB SD card for external memory |
| 019 132 | 1GB SD card for external memory |
| 019 133 | 2GB SD card for external memory |
| 019 135 | 1GB SD/USB card for external memory |
| 019 136 | 2GB SD/USB card for external memory |

## Miscellaneous

| Part Code | Description |
|---|---|
| 660 001 | Dust cover |
| 060 422 | Moulded cuvette rack for 16 10x10mm cuvettes |
| 035 088 | Visible range calibration standards (all models) |
| 035 091 | UV/Visible calibration standards (6705/6715) |
| 012 075 | Tungsten halogen lamp |
| 012 146 | Xenon lamp module |

68 Series

# 68 Series UV/Visible Double Beam Spectrophotometer

- Double beam spectrophotometer with highly stable optics
- 1.5nm spectral bandwidth
- Jenway Flight Deck software included as standard

With the 6800 Jenway introduces the first double beam spectrophotometer to the range. The highly stable optics and 1.5nm spectral bandwidth ensures high resolution and accuracy on every measurement. The Jenway Flight Deck software offers modes for all common measurement methods: photometrics and multi-wavelength, spectrum scanning, time scan and kinetics, quantitation, DNA/RNA and protein measurements. With extensive post-measurement tools and easy export to Excel® the 6800 ensures that all results are presented exactly to your requirements.

**Technical Specification**

| | |
|---|---|
| **Wavelength** | |
| Range | 190 to 1100nm |
| Resolution | 0.1nm |
| Accuracy | ±0.3nm |
| Repeatability | ±0.1nm |
| Spectral bandwidth | 1.5nm |
| **Photometrics** | |
| Transmittance | 0 to 600%T |
| Absorbance | -3.0000 to 3.0000A |
| Accuracy | ±0.3%T<br>±0.002A at 0 to 0.5A, ±0.004A at 0.5 to 1.0A, ±0.008A at 1.0 to 2.0A |
| Reproducibility | ±0.15%T<br>±0.001A at 0 to 0.5A, ±0.002A at 0.5 to 1.0A, ±0.004A at 1.0 to 2.0A |
| Resolution | 0.01%T, 0.0001A |
| Stray light | <0.05%T at 220 and 340nm |
| Noise | 0.0003A |
| Stability | ±0.0003A/h after 2h |
| **Multi-wavelength** | |
| Data points | Up to 6 wavelengths |
| Calculations | Ratio, difference, formulae with factors |
| **Spectrum** | |
| Range | Any range between 190 and 1100nm |
| Scan speed | 10 to 3600nm/min (8 speed settings) |
| Scan interval | 0.5, 1, 2 or 5nm, dependent on scan speed |
| Analysis | Auto peaks and valleys, zoom, addition, subtraction, peak ratios, smoothing, area under curve, wavelength table, derivatives, overlay |
| **Time scan and Kinetics** | |
| Time limits | 30 to 99999 seconds |
| Analysis | Slope and formula of line of best fit between any two points |
| **Quantitation** | |
| Data points | Up to 3 wavelengths |
| Concentration range | 0-99999 |
| Calibration | Blank with standards or factor |
| **DNA/RNA and Protein** | |
| DNA/RNA | Ratio, concentration, $A_{320}$ correction |
| Protein | Bradford, Lowry, BCA, direct UV |
| **Other** | |
| Light source | Tungsten halogen and Deuterium lamps |
| Lamp changeover | 325 to 370nm selectable |
| Outputs | RS232 |
| Operating system: | CPU: 1GHz Memory: 256Mb Hard disk: 500Mb |
| Power | 200VA |
| Size (w x d x h) | 540 x 560 x 235mm |
| Weight | 27kg |

# 68 Series UV/Visible Double Beam Spectrophotometer

**Ordering Information**

| Part Code | Description |
|---|---|
| 680-SC | 6800 double beam spectrophotometer supplied with single cuvette holders (for 10 x 10mm cuvettes in sample and reference), Flight Deck PC software on CD ROM and interconnection cable. (PC required but not supplied - cuvettes not supplied) |
| 680-MC | 6800 double beam spectrophotometer supplied with micro-cuvette holders (for 10 x 10mm cuvettes in sample and reference), Flight Deck PC software on CD ROM and interconnection cable. (PC required but not supplied - cuvettes not supplied) |
| 680-LC | 6800 double beam spectrophotometer supplied with long path length cuvette holders (for 10, 20, 30, 40, 50 or 100mm path length cuvettes in sample and reference), Flight Deck PC software on CD ROM and interconnection cable. (PC required but not supplied - cuvettes not supplied) |
| 680-TC | 6800 double beam spectrophotometer supplied with water thermostated single cuvette holders (for 10 x 10mm cuvettes in sample and reference), Flight Deck PC software on CD ROM and interconnection cable. (PC required but not supplied - temperature controlled water circulator required but not supplied, cuvettes not supplied) |

*PC not supplied


**10x10mm Cell Holder**

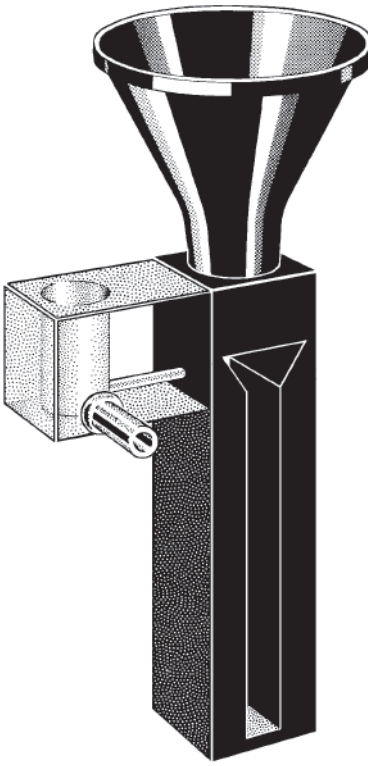
# 6800 Series Accessories

**Ordering Information**

| Part Code | Description |
|---|---|
| 680 081 | Single 10 x 10mm cell holder for standard measurements |
| 680 031 | Micro cell holder for medical and biochemical applications where sample volumes are strictly limited, allows measurements of sample volumes down to 50µl |
| 680 131 | Water heated cell holder for use where sample temperature is critical. This allows absolute temperature control from ambient to 40°C |
| 680 101 | Film holder used to record measurements of filters and film-like samples |
| 680 061 | Glass filter holder allows the measurement of solid sheet samples for thickness from 0.5mm up to 5mm |
| 680 111 | Rectangular long path cell holder, which can accept cell lengths of 10, 20, 30, 40, 50 and 100mm |
| 068 020 | Tungsten halogen lamp (6800) |
| 068 021 | Deuterium lamp (6800) |

# Cuvettes

## Disposable Cuvettes and Test Tubes (10mm path length unless stated)



| Part Code | Description |
|---|---|
| 060 084 | Pack of 100 plastic cuvettes, visible wavelengths only, 2.4 to 4.5ml fill volume |
| 060 229 | Pack of 500 plastic cuvettes (5 boxes of 060 084) |
| 060 087 | Pack of 100 plastic cuvettes, visible wavelengths only, 1.5 to 3.0ml fill volume |
| 060 230 | Pack of 100 plastic cuvettes, UV and visible wavelengths, 2.5 to 4.5ml fill volume |
| 060 232 | Pack of 500 plastic cuvettes (5 boxes of 060 230) |
| 060 231 | Pack of 100 UV plastic cuvettes, 1.5 to 3.0ml fill volume |
| 035 143 | Pack of 100 plastic cuvettes, UV and visible wavelengths, 70µl to 1.5ml fill volume (use with micro cuvette holder) |
| 060 331 | Pack of 100 glass test tubes (12 x 75mm) |
| 060 179 | Pack of 100 plastic test tubes (12 x 75mm) |
| 060 335 | Pack of 50 glass test tubes (24 x 150mm) |

## Glass and Quartz Cuvettes
(10mm path length unless stated)

| Part Code | Description |
|---|---|
| 035 027 | Visible (glass) 10mm path length cuvette |
| 035 086 | Visible (glass) 20mm path length cuvette |
| 035 029 | Visible (glass) 40mm path length cuvette |
| 035 087 | Visible (glass) 50mm path length cuvette |
| 035 079 | Visible (glass) 100mm path length cuvette |
| 035 123 | Visible (glass) micro (500µl) cuvette |
| 035 126 | Visible (glass) semi-micro (1ml) cuvette |
| 035 028 | UV (quartz) cuvette (2.0 to 3.5ml) |
| 035 124 | UV (quartz) ultra micro (50µl) cuvette |
| 035 125 | UV (quartz) micro (500µl) cuvette |
| 035 127 | UV (quartz) semi-micro (1ml) cuvette |
| 035 138 | UV (quartz) ultra-micro (100µl) cuvette |
| 035 139 | UV (quartz) ultra-micro (200µl) cuvette |
| 035 249 | UV (quartz) ultra-micro (20µl) cuvette |

## Flow Cells (10mm path length unless stated)

| Part Code | Description |
|---|---|
| 035 026 | Pour in/Suck out cell |
| 035 025 | Visible (glass) flow-through cell 1.8ml |
| 035 045 | Visible (glass) flow-through cell 80µl |
| 035 044 | UV (quartz) flow-through cell 1.8ml |
| 035 047 | UV (quartz) flow-through cell 80µl |

# TrayCell

- Ideal for DNA, RNA and protein measurements
- Sample volumes as low as 0.7µl
- Sample concentration range from 25 to 4250µg /ml
- Sample is simply wiped away after the measurements, making the TrayCell quick and easy to use
- Prevents dilution and pipetting errors
- Fits all standard 10 x 10mm cuvette holders

The TrayCell is a fibre optic cuvette which can be used with as little as 0.7µl of sample. The cuvette has two caps which give path lengths of either 1mm or 0.2mm, thus creating a 'virtual dilution' of 1:10 or 1:50 of the sample when compared to a measurement with a standard 10 mm cuvette

**Technical Specification**

| | |
|---|---|
| Light Path | 0.2mm or 1mm |
| Error of light path | ± 0.02mm |
| Volume | 0.7-5µl |
| Wavelength range | 190 to 1100nm |
| Maximum temperature | 50°C |

**Ordering Information**

| Part Code | Description |
|---|---|
| 035 262 | Tray Cell for ultra-micro sample volumes from 0.7 to 5 µl compatible with Genova, 6705 and 6715 spectrophotometers, supplied complete with caps for 1mm and 0.2mm path length operation |
| 035 263 | Replacement 1mm path length cap for TrayCell |
| 035 264 | Replacement 0.2mm path length cap for TrayCell |