



64 SERIES VISIBLE AND UV-VIS SCANNING SPECTROPHOTOMETERS

The **6400 Visible** and **6405 UV/Visible** high performance spectrophotometers come standard with photometric, kinetic, spectrum (*scanning*), and multi-wavelength capabilities. When fitted with 8-cell motorized changer, quantitation software is automatically activated. To assure G.L.P. compliant operation, when the unit is turned on, a system check and calibration is automatically performed. The unit operates through a large menu driven graphical LCD and numeric keypad for user-friendly interactive control. Data can be printed on an optional internal printer or can be transferred to PC through the bi-directional RS232 using the DataWay PC software. DataWay's expanded print options allow the printing of graph and table on separate sheets or together with either the graph or table on top. This innovative laboratory instrument is covered under a 3-year warranty, and is priced to fit any laboratory budget.

The **Model 6400 Visible Spectrophotometer** can be used between 320 and 1100nm (at 0.1 nm intervals), while the **Model 6405 UV/Visible Spectrophotometer** extends this range to between 190 and 1100nm (at 0.1nm intervals). Photometrics, Spectrum scanning, Multi-wavelength, Quantitation and Kinetic measurements are all implemented in a user friendly manner.

Graphics Display Both models feature a 240 x 128 pixel graphics LCD giving a clear readout of calibration data, sample data and all set-up options.

Keypad A simple, easy to use, keypad facilitates setting experimental parameters and initiating sample analysis procedures.

Lamp Housings A removable rear panel allows easy access to the Halogen lamp (on both instruments) and the Deuterium lamp (on the Model 6405).

Sample Compartment A large compartment is fitted to the instrument to house the full range of accessories developed for the 6400 series. Various sizes of quartz, glass and plastic cuvettes are available for sample volumes down to 5µl.

Printer A 40 column impact mechanism printer can be fitted to either instrument to allow a hard copy of all readings to be produced. The printer is ably capable of reproducing spectrum, kinetics and quantitation scans graphically for future reference along with appropriate statistics.

Good Laboratory Practice This is supported by a series of features. A user set identification number is entered into any instrument (up to 6 digits in length) and this number will appear on any printouts produced by the instrument. The instruments are supported by traceable calibration standards to provide the on-going accuracy required for Good Laboratory Practice protocols. Each unit carries the CE mark and is covered by a three year warranty. NOTE: The deuterium lamp is warranted for 1 year.

Data Handling and Interfacing Both instruments incorporate a bi-directional RS232 interface allowing remote operation, calibration and interrogation by an external personal computer. This operates over a fixed baud rate of 1200 bits per second. Results can be downloaded to a personal computer by a single touch of the print key.



	Model 6400	Model 6405
Wavelength		
Range	320 to 1100nm	190 to 1100nm
Resolution	0.1nm	0.1nm
Accuracy	±1nm	±1nm
Bandwidth	5nm	5nm
Transmittance		
Range	0 to 199.9%	0 to 199.9%
Resolution	0.1%	0.1%
Absorbance		
Range	-0.300 to 3.000A	-0.300 to 3.000A
Resolution	0.001A	0.001A
Concentration		
Range	-300 to 9999	-300 to 9999
Resolution	0.001 / 0.01 / 0.1 / 1	0.001 / 0.01 / 0.1 / 1
Factor		
Range	0.000 to 9999.99	0.000 to 9999.99
Photometric Linearity	0.005A @ 1.0A	0.005A @ 1.0A
Stray Light	0.05%T @ 340nm	0.05%T @ 340nm
Drift	0.001A per hour	0.001A per hour
Display	240 x 128 pixel graphics LCD	240 x 128 pixel graphics LCD
RS232 port	Bi-directional	Bi-directional
Analog output	1mV per 0.1% Transmittance 1mV per 0.001 Absorbance 1mV per 1 Concentration unit	1mV per 0.1% Transmittance 1mV per 0.001 Absorbance 1mV per 1 Concentration unit
Light Source	Tungsten Halogen lamp	Tungsten Halogen lamp
UV Light Source	-	Deuterium lamp
Input Voltage	115V AC / 230V AC	115V AC / 230V AC
Weight	15Kg	15Kg