

JENWAY

64 Series

Spectrophotometers by Jenway...
High performance, scanning capable systems



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 warranty², and is priced to fit any laboratory budget.



- **5 modes of operation:**
 - Photometrics- - Spectrum (*Scanning*)
 - Multi-wavelength - Kinetics - Quantitation¹
- Large housing fits wide variety of accessories
- Optional 8 position cell changer
- Full interfacing capability
- Single beam scanning
- 5nm bandwidth
- Two Models to choose from:
320-1100 nm (**6400**) or 190-1100 nm (**6405**)
- DataWay PC Software
- Security Lock
- Optional Versatile Sampling System
- Easy Programming, Menu Driven Operations
- UV-lamp save option
- 3 year parts and labor warranty²

Photometrics

Routine measurements of %T, Absorbance, & Concentration
Selectable units: ppb, ppm, ug/l, mg/l, g/l, M, %, or blank
Large dual display of wavelength and photometric reading

Multi-wavelength

Simultaneous reading and display of up to 2 wavelengths
Readings displayed in %T, Absorbance, and Concentration
Selection of primary and secondary wavelength

Kinetics

%T or Absorbance value versus time plotted
Adjustable lag, run time and start on level
Graphical display of data
Temperature control accessories available

Spectrum (*Scanning*)

6400 & 6405 have full scanning capabilities with
4 scan intervals: 0.2 nm, 1nm, 5 nm, 10 nm
Scan Speed to 1200 nm/minute
Real-time spectrum scan
Auto re-scale capability
Hard copy printout of settings, scan & statistics
Post scan analysis and baseline correction

Quantitation¹

Up to 20 calibration points can be performed
Up to 5 duplicate readings on each standard
Auto re-scale capability with 8 curve fits selection

Technical Specification

| | Model 6400 | Model 6405 |
|------------------------------|---------------------|---------------------|
| Wavelength Range | 320-1100nm | 190-1100nm |
| Wavelength Resolution | 0.1nm | 0.1nm |
| Wavelength Accuracy | +/- 1nm | +/- 1nm |
| Bandwidth | 5nm | 5nm |
| Absorbance | | |
| Range | -0.300 to 3.000A | -0.300 to 3.000A |
| Resolution | 0.001A | 0.001A |
| Transmittance | | |
| Range | 0 to 199.9% | 0 to 199.9% |
| Resolution | 0.1% | 0.1% |
| Concentration | | |
| Range | -300 to 9999 | -300 to 9999 |
| Resolution | 1, 0.1, 0.01, 0.001 | 1, 0.1, 0.01, 0.001 |
| Factor Range | | |
| 0.000 to 9999.99 | 0.000 to 9999.99 | 0.000 to 9999.99 |
| Kinetics Lag Time | | |
| 0 to 9999 seconds | 0 to 9999 seconds | 0-9999 seconds |
| Kinetics Run Time | | |
| 10 to 9999 sec | 10 to 9999 sec | 10 to 9999 sec |
| Dwell Time | | |
| 0 to 99 seconds | 0 to 99 seconds | 0 to 99 seconds |
| Photometric Linearity | | |
| 0.005A @1.0A | 0.005A @1.0A | 0.005A @1.0A |
| Stray Light | | |
| 0.05%T @340nm | 0.05%T @340nm | 0.05%T @340nm |
| Drift | | |
| +/- 0.001A per hour | +/- 0.001A per hour | +/- 0.001A per hour |
| RS232 | | |
| Bi-directional | Bi-directional | Bi-directional |
| Analog output | | |
| Yes | Yes | Yes |
| Print/Save Auto Log | | |
| Yes | Yes | Yes |
| Operating Temperature | | |
| 15 to 30 C | 15 to 30 C | 15 to 30 C |
| Operating Humidity | | |
| 0 to 90% RH | 0 to 90% RH | 0 to 90% RH |
| Weight | | |
| 33 lbs | 33 lbs | 33 lbs |
| Display | | |
| Graphical LCD 12.6x9.5 in | | |
| Visible Light Source | | |
| Tungsten Halogen | Tungsten Halogen | Tungsten Halogen |
| UV Light Source | | |
| N/A | N/A | Deuterium Lamp |

Ordering Information

| Model | Description |
|--------------|---|
| 640 001 | Model 6400 Visible without 8 position multi-cell changer, 240V |
| 640 031 | Model 6400 Visible without 8 position multi-cell changer, 117V |
| 640 501 | Model 6405 UV/Vis without 8 position multi-cell changer, 240V |
| 640 531 | Model 6405 UV/Vis without 8 position multi-cell changer, 117V |
| 640 133 | Dust cover |
| 642 002 | Sipper pump ³ |
| 644 002 | Eight position, motorized multi-cell changer ³ |
| 7062828 | Spectrophotometer printer |
| 643 032 | Peltier heated cell system ³ , 110V |
| 647 032 | Temperature controlled sipper system ³ , 110V |
| 035 088 | Calibration set (VIS) |
| 035 091 | Calibration set (UV-Visible) |
| 050 501 | DataWay PC software |

¹ Quantitation mode is available when the optional 8 position multi-cell changer is fitted

² Deuterium lamp 1 year warranty; Tungsten halogen lamp consumable

³ Factory Fitted