



## 6320D DOMED LID VISIBLE RANGE SPECTROPHOTOMETER

The 6320D Domed lid Visible Range Spectrophotometer is a high quality 8nm bandpass, low cost measurement system for routine analysis. It has modes for Absorbance, %T and Concentration measurement. Wavelength selection is made electronically via a finely geared stepper motor with a displayed resolution of 1nm. **INCLUDES COMPLETE SET OF FUN-Science EXPERIMENTS AND 24/7 TECHNICAL AND APPLICATIONS SUPPORT (ONLY AVAILABLE THROUGH EDU-CHEM).**



### FEATURES INCLUDE:

**Dual Display** A customized Liquid Crystal Display gives simultaneous readout of wavelength and % Transmittance, Absorbance or Concentration. Concentration can be found by calibration to a standard or by direct factor entry.

**Ease Of Use** The simple keypad layout and operating protocols are designed to enable reliable operation by unfamiliar users. Photometric calibration, including 0% Transmittance is performed by a single key press.

**Comprehensive Specification** The 6320-D Spectrophotometer boasts an impressive optical performance for a product of this type. Stray light is minimized by the automatic activation of internal filters, whilst the narrow 8nm bandwidth provides the high degree of selectivity essential for most analytical applications. A precision stepper motor gives excellent positional control of the optical grating ensuring wavelength selection is both accurate and highly repeatable.

**Fully GLP Compliant** The 6320-D Spectrophotometer is supported by traceable calibration standards to provide the on-going assurance of accuracy required by Good Laboratory Practice (GLP). A wavelength calibration routine is performed at switch on and a 0%T setting is performed automatically during all calibration routines.

**Full Interfacing Capability** There is full RS232 interfacing for connection, via industry standard connectors to printer or PC using 63Zero PC software. Results can be transferred to a PC by a single touch of the print key. The bi-directional interface also allows remote interrogation and control of the 6320-D Spectrophotometer. An analog output is provided for connection to a chart recorder.

**A versatile sampling system for 6320D** enables both 10mm path length cuvettes and 12.5-13mm diameter test tubes to be used, as standard. Optional sample holders include the 10-100mm adjustable cuvette holder, a 4 position cuvette holder and a range of test tube holders covering tubes from 10 to 25mm diameter. Flow through cuvettes can be used with the optional sipper pump, while water heated or electrically heated cuvette holder options are also available.

| 6320-D DOMED LID VISIBLE RANGE SPECTROPHOTOMETER |   |
|--|---|
| <b>Wavelength</b>                                |   |
| Range  | 320 - 1000nm  |
| Resolution                                       | 1nm   |
| Accuracy   | ±2nm  |
| Bandwidth  | 8nm   |
| <b>Absorbance</b>                                |   |
| Range  | -0.300 to 1.999A                                      |
| Resolution                                       | 0.001A  |
| <b>Transmittance</b>                             |   |
| Range  | 0 to 199.9%   |
| Resolution                                       | 0.1%  |
| Stray Light                                      | <0.5% @ 340nm   |
| Photometric Accuracy                             | ±1%   |
| <b>Concentration</b>                             |   |
| Range  | -300 to 1999 Concentration                            |
| Resolution                                       | 0.1 / 1   |
| Units  | ppm, mg/l, g/l, M, %, blank                           |
| <b>Factor</b>                                    | 0 to 999.9, 1000 to 9999                              |
| <b>Photometric Noise Levels</b>                  | <1%   |
| <b>Photometric Stability</b>                     | 1%/Hour after warm-up                                 |
| <b>Readout</b>                                   | Custom Liquid Crystal Display                         |
| <b>Outputs</b>                                   | Analog (0 to 1999mV) / RS232 serial port              |
| <b>Light Source</b>                              | Tungsten Halogen 20W 12V                              |
| <b>Input Voltage</b>                             | 115/230V AC -20% +10%                                 |
| <b>Size (inches)</b>                             | 14 x 11 x 6   |
| <b>Weight</b>                                    | 6Kgs  |
| <b>Warranty</b>                                  | 3 years parts and labor<br>Tungsten lamps no warranty |