

WOLF LABORATORIES

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Jenway Model 6320D - Visible range Spectrophotometer



Easy to use

Versatile sampling system

Full interfacing capability

G.L.P. compliant

320-1000nm/8nm SBW

Domed lid enables use with tall sample tubes

The Model 6320D is designed to provide the user with a high quality, low cost measurement system for routine analysis. The 6320D has modes for Absorbance, %T and Concentration measurement. Calibration is performed against a blank (Abs or %T) and a standard or factor for Concentration. Wavelength selection is made electronically via a finely geared stepper motor with a displayed resolution of 1nm.

Features include:

A customised LCD gives simultaneous readout of wavelength and photometric result. Error messages, prompts, mode indication and a choice of concentration units are presented in an easily understood format.

Simple keypad layout and operating protocols ensure reliable operation by unfamiliar users.

An impressive optical performance minimises the stray light by the automatic activation of internal filters, whilst the narrow 8nm bandwidth provides the high degree of selectivity essential for most analytical situations. A precision stepper motor gives excellent positional control for the optical grating ensuring wavelength selection is both accurate and highly repeatable.

A versatile sampling system enables both 10mm path length cuvettes and 12.7mm 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 available.

Full interfacing capability using RS232 interfacing or an analogue output is provided as standard. Utilising the RS232 facility allows results to be down loaded via the front panel print key.

The bi-directional interface also allows remote interrogation and control of the 6320D.

Traceable calibration standards provide the on-going assurance of accuracy required by Good Laboratory Practice (G.L.P.). The 6320D complies fully with EEC and US directives relating to ESD/EMC emission and susceptibility.

Specification

Optics	Single beam
Wavelength range	320-1000nm
Resolution	1nm
Accuracy	±2nm
Bandwidth	8nm
Grating	1200 lines/mm
Transmittance range	0 to 199.9%
Resolution	0.1%
Accuracy	±1%T
Stray light	<0.5%T
Absorbance range	-0.300 to 1.999A
Resolution	0.001A
Concentration range	-300 to 1999Conc
Resolution	0.1/1
Units	ppm, mg/l, g/l, M, blank
Factor	0 to 199.9 / 1000 to 9999
Photometric noise levels	<1%
Photometric stability	Better than 1%/hr
Readout	Custom LCD
Outputs	Analogue (0 to 1999mV) / RS232 serial port
Light source	Tungsten halogen
Input voltage	115/230V a.c. -20% +10% 50/60Hz
Input power	<50W
Size	365(w) x 272(d) x 160(h) mm
Weight	6Kg

Accessories

- 632 001** Sipper pump (220V/50Hz)
- 632 031** Sipper pump (110V/60Hz)
- 633 001** Heated cuvette system (cuvette holder and external control unit), supplied with interconnection cables, operating instructions and mains cables for EU, UK and USA.
- 037 201** Water bath and circulator for use with 648 001 (ambient +5°C to 50°C (230V/50Hz)
- 037 202** Water bath and circulator for use with 648 001 (ambient +5°C to 50°C (110V/60Hz)
- 648 001** Water heated single cuvette holder
- 634 001** 4 position cell holder
- 630 020** Test tube block (13mm diameter)
- 630 021** Test tube block (25mm diameter)
- 630 022** Test tube block (16mm diameter)
- 630 005** Adjustable path length cuvette holder (10-100mm)
- 035 079** 100x10mm glass cell
- 035 087** 50x10mm glass cell
- 035 029** 40x10mm glass cell
- 035 086** 20x10mm glass cell
- 035 027** 10x10mm glass cell
- 035 025** Visible (glass) flow-through cell 1.8ml
- 035 045** Visible (glass) flow-through cell 80µl
- 035 132** Pack 100 (300µl) UV plastic cuvettes (220-900nm)
- 060 087** Pack 100 (1ml) semi-micro cuvettes (320-1100nm)
- 060 084** Pack 100 (3.5ml) cuvettes (320-1100nm)
- 060 229** Pack 500 (3.5ml) cuvettes (320-1100nm)
- 060 230** Pack 100 (3.5ml) UV plastic cuvettes (280-1100nm)
- 060 232** Pack 500 (1ml) semi-micro UV plastic cuvettes (280-1100nm)
- 012 075** Tungsten halogen lamp
- 021 041** DC/AC power converter - enables the product to be powered from a 12v DC supply
- 630 204** 10x10mm cell holder
- 543 001** 40 column printer
- 542 009** Interface cable kit
- 060 287** Paper roll for printer (Qty 1)
- 060 288** Printer ribbon
- 630 028** Dust cover
- 035 088** Visible Calibration Set
- 033 290** Storage/Carry case
- 635 100** 63-Zero PC Software