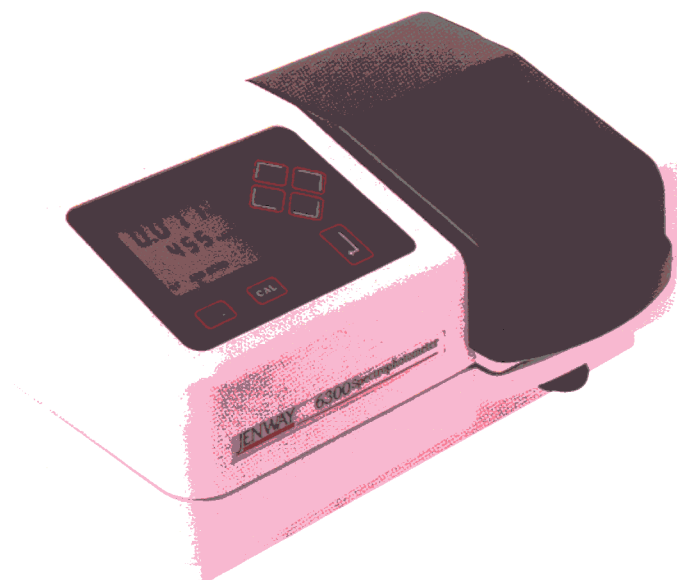


MODEL 6300 VISIBLE RANGE SPECTROPHOTOMETER



- Narrow bandwidth - 8nm
- Simple operation
- Versatile sampling system
- G.L.P. compliant
- Full interfacing capability
- Low cost

The Jenway 6300 Visible range spectrophotometer
320-1000nm wavelength range



he Jenway Model 6300 is designed to provide the user with a high quality, low cost measurement system for routine analysis. The simple keypad layout and operating protocols are designed to enable reliable operation by unfamiliar users.

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.

The 6300 boasts an impressive optical performance for a product of this type. Stray light is minimised 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.

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A large compartment and the variable length cuvette holder allow 10-100mm cells to be accommodated with ease, therefore changing of the sample configuration is quick and simple. Additional sampling flexibility can be gained using the 4 position cell holder.



All Jenway products are designed and manufactured under stringent quality control conditions in an ISO 9001 environment.

The Model 6300 is supported by traceable calibration standards to provide the on-going assurance of accuracy required by G.L.P.

SPECIFICATIONS

Wavelength

Range	320-1000nm
Resolution	1nm
Accuracy	±2nm
Bandwidth	8nm

Transmittance

Range	0 to 199.9%
Resolution	0.1%
Stray light	<0.5%T
Accuracy	±1%

Absorbance

Range	-0.300 to 1.999A
Resolution	0.001A

Concentration

Range	-300 to 1999 Concentration
Resolution	0.1/1
Units	ppm, mg/l, g/l, M, blank

Factor	0 to 199.9, 1000 to 9999
Photometric Noise	<1%
Photometric Stability	Better than 1%/hr
Readout	Custom LCD
Outputs	Analogue (0 to 1.999V d.c.) RS232 serial port
Light Source	Tungsten halogen
Input Voltage	115/230V a.c. -20% +10%
Input Power	<50W
Size	365(w)x272(d)x160(h)mm
Weight	6Kg

CELLS & CUVETTES

035 079	100 x 10mm glass cell	035 027	10 x 10mm glass cell
035 087	50 x 10mm glass cell	060 087	Semi-micro plastic cuvettes (1ml) - pack 100
035 029	40 x 10mm glass cell	060 084	Plastic cuvettes (3.5ml) - pack 100
035 086	20 x 10mm glass cell	060 229	Plastic cuvettes (3.5ml) - pack 500

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MODEL 6305 UV/VISIBLE SPECTROPHOTOMETER



- Single lamp with guaranteed 3 year life time
- Self calibrating lamp at 3 wavelengths
- 10 times more UV light energy
- Very low lamp drift
- Blazed holographic grating
- Low cost

The Jenway 6305 UV-Visible spectrophotometer
198-1000nm wavelength range

The unique xenon lamp in the Jenway Model 6305 has the advantage of offering a broad spectral source and extended life. This enables the running costs for the 6305 to be minimised over the lifetime of the spectrophotometer, since there are no deuterium and tungsten lamps to replace.

The key feature of the Jenway xenon lamp is that 40% of the energy of the lamp is emitted below 400nm, with a maximum intensity at 260nm. This means an *extra 5 - 10 times energy* in the UV region compared to deuterium lamps and just where you need it for protein peptide or DNA study work.

Jenway have engineered the Model 6305 to look at the fixed emission lines of the Xenon lamp so every time you switch the instrument on, a 3 point wavelength calibration is performed to ensure certainty of wavelength setting (247, 528 and 824nm). This is ideal for G.L.P. and gives confidence that the instrument is working 100%.

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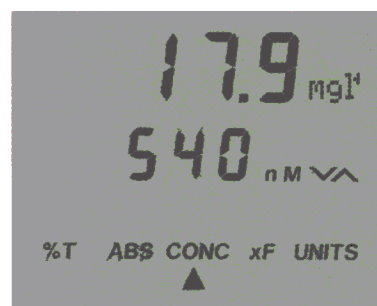
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A large compartment and the variable length cuvette holder allow 10-100mm cells to be accommodated with ease, therefore changing of the sample configuration is quick and simple.



The very large LCD display on the 6305 gives excellent ability to read the dual display of wavelength and photometric, transmission or concentration results. Mode of operation, concentration units and error messages are all clearly visible at high background light levels and at a distance from the display.

SPECIFICATIONS

Wavelength		Factor	0 to 199.9, 1000 to 9999
Range	198-1000nm	Photometric Noise	<0.001A @ 0A at 400nm
Resolution	1nm	Photometric Stability	<0.002Ahr after 30 minute warm up
Accuracy	±2nm	Readout	Custom LCD Graphics
Bandwidth	6nm	Outputs	Analogue (0 to 1.999V d.c.)
Transmittance			RS232 serial port
Range	0 to 199.9%	Light Source	Xenon flash lamp module
Resolution	0.1%	Input Voltage	115/230V a.c. -20% +10%
Stray light	<0.5% @ 340 & 220nm	Input Power	<50W
Accuracy	±1%	Size	365(w)x272(d)x160(h)mm
Absorbance		Weight	6Kg
Range	-0.300 to 1.999A		
Resolution	0.001A		
Concentration			
Range	-3 to 1999 Concentration		
Resolution	0.1/1		
Units	ppm, mg/l, g/l, M, blank		

CELLS & CUVETTES

035 079	100 x 10mm glass cell	035 027	10 x 10mm glass cell
035 087	50 x 10mm glass cell	060 087	Semi-micro plastic cuvettes (1ml) - pack 100
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035 086	20 x 10mm glass cell	060 229	Plastic cuvettes (3.5ml) - pack 500

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MODELS 6300 & 6305 SPECTROPHOTOMETERS **ACCESSORIES**

632 001 Sipper pump (230V version)
632 031 Sipper pump (110V version)

021 041 DC/AC power converter (model 6035 only)
This item is for portable use and is powered from a vehicle cigarette lighter

Test Tube Blocks

630 020 Test tube block (13mm diameter)
630 021 Test tube block (25mm diameter)
630 022 Test tube block (16mm diameter)

Cell Holders

634 001 4 position cell holder
630 004 10x10mm cell holder
630 005 20 - 100mm cell holder

Glass Cells

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

UV Cuvettes

035 132 Pack 100 (300µl) UV plastic cuvettes (220-900nm) (model 6305)
060 230 Pack 100 (3.5ml) UV plastic cuvettes (280-1100nm) (model 6305)
060 232 Pack 500 (1ml) UV semi-micro plastic cuvettes (280-1100nm) (model 6305)

Visible Cuvettes

060 087 Pack 100 (1ml) semi-micro plastic cuvettes (320-1100nm)
060 084 Pack 100 (3.5ml) plastic cuvettes (320-1100nm)
060 229 Pack 500 (1ml) plastic cuvettes (320-1100nm)

Miscellaneous Items

035 088 Visible calibration set
035 091 UV calibration set
543 001 40 column printer module
060 287 Paper roll for printer
060 288 Printer ribbon
542 009 Interface cable kit
012 075 Tungsten halogen lamp (model 6300)
012 094 Xenon lamp module (model 6305)
630 028 Dust cover
033 290 Storage case

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