

Jenway, UV / Visible Range Spectrophotometers

The 6320D and 6305 are high quality, low cost measurement systems for routine analysis in QC applications, education and training.

- Easy and intuitive operation
- Absorbance, %T, and Concentration modes
- Multi-parameter display with wavelength readout
- Two Models to choose from:
320-1000 nm (6320D) and 190-1000 nm (6305)
- Ideal for Education
- Wide range of sampling accessories
- Domed lid with combined 10x10mm cuvette & 12.5-13mm (nominal 12.7mm) diameter test-tube holder (6320D)
- 25 Pin RS232 Port
- 63-Zero PC software
- Low Cost
- Small Footprint, Space Saving Design
- Xenon Flash Lamp Extends Lamp Life and Reduces Maintenance Costs (6305)
- 3 year warranty

Simple operating procedures ensure quick and reliable operation even by inexperienced users. The specially designed LCD and easy to use keypad provide access to an extensive range of functions; press the up or down arrow keys to see the displayed wavelength increase or decrease, use the right or left arrow keys to select Absorbance, %T or Concentration readout from the simple menu bar. Using the 63-Zero PC software, you can take measurements remotely, enhancing the features of the instrument by the capabilities of your computer. Results can be exported to Excel, word processing, PowerPoint and many other software packages for reporting and presentation purposes.

Calibrate your concentration measurement using a known standard by adjusting the displayed factor. A unit of measurement can be selected to display and print alongside your results to ensure clear and efficient reporting.

Both instruments help productivity by automatically returning to the last used settings when the unit is switched back on, in many cases allowing work to start immediately. The light source for the Model 63200 Visible Spectrophotometer is a pre-aligned long life tungsten halogen lamp. The pulsed Xenon lamp, used in the Model 6305, provides many years of operation under normal conditions and gives superior energy levels compared to traditional UV light sources

The large sample compartment enables a wide range of optional sampling devices to be fitted. It can accommodate cuvettes from 10mm to 100mm in path length with universal cell holder, a four position rotary cuvette holder and test tube holders. An electrically heated cuvette holder and control unit is available as well as a water heated cuvette holder and a thermostated water circulator. The external, programmable sipper pump allows for quick and safe sample handling. This innovative laboratory instrument is priced to fit any laboratory budget.



Technical Specifications

Wavelength Range	320-1000nm (6320D)
	198-1000nm (6305)
Wavelength Resolution	1nm
Wavelength Accuracy	±2nm
Bandwidth	8nm (6320D); 6nm (6305)
Absorbance	
Range	-0.300 to 1.999A
Resolution	0.001A
Transmittance	
Range	0 to 199.9%
Resolution	0.1%
Photometric Accuracy	±1%
Concentration	
Range	-3 to 1999 Conc
Resolution	0.1-1
Units	ppm, mg/l, g/l, M, %
Light Source	Tungsten halogen (6320D)
	Xenon (6305)
Display	Custom LCD
Outputs	RS232/Analog
Software	63-Zero PC software
Dimension (inches)(w x d x h)	10.3 x 7.6 x 4.5
Weight	13 lbs

Ordering Information

632 501	6320D Visible range with dual 10x10 cuvette & 12.7mm test tube holder, 230V
632 521	6320D Visible range with dual 10 x 10 cuvette & 12.7mm test tube holder, 110V
635 001	6305 UV-Vis range with 10 x 10 cuvette holder, 230V
635 031	6305 UV-Vis range with 10 x 10 cuvette holder, 110V
630 028	Dust Cover
632 001	Sipper system (230V)
632 031	Sipper System (110V)
7062828	Spectrophotometer Printer
630 005	Universal cell holder (10 x 100mm)
634 001	4 Position cell holder
630 020	Test tube holder (13mm diameter)
630 021	Test tube holder (25mm diameter)
630 022	Test tube holder (16mm diameter)
648 001	Water heated single cell block
035 088	Calibration set (Visible)
035 091	Calibration set (UV-visible)
033 290	Storage Case

*Excluding lamps; Xenon lamp 1 year; Tungsten halogen lamp is a consumable

Jenway Model 6315 UV/Visible Spectrophotometer

- Scanning UV/Visible spectrophotometer
- Scans in the range 198 – 1000nm
- Uses pulsed xenon lamp
- 200 method memory
- Quantitation using up to 6 standards
- Supplied with free PC Software

The new Jenway Model 6315 UV/visible scanning spectrophotometer completes the Jenway 63 series. Built on the platform of the highly successful 6310, the Model 6315 uses a pulsed xenon lamp to extend the wavelength range to encompass both the UV and visible regions.

The Model 6315 is an advanced measuring system with modes for Photometrics, Spectrum Scanning, Kinetics, Concentration and Quantitation. The 6315 will therefore meet the demands of a wide range of applications especially those in clinical, veterinary, environmental, general QC and performance testing areas.

With a memory capacity of 50 methods for each mode and a host of security features the Model 6315 can be fully customized to meet the operator's choice of chemistries and aid the development of standard operating procedures.

The 6315 has an analog output that can be used to drive chart recorders and other analog or conversion devices as well as a bi-directional RS232 serial port allowing connection to serial printers and PCs using the free 6315 PC software.

The 6315 comes supplied with a 10x10mm cuvette holder fitted as standard. This can be removed easily by releasing a single thumbscrew, allowing it to be replaced with a wide variety of other sampling accessories.



Technical specifications

Wavelength Range	198 to 1000nm
Resolution (Accuracy)	1nm (±2nm)
Spectral Bandwidth	8nm
Absorbance	-0.300 to 1.999A
Transmittance	0 to 199.9%T
Spectrum	198 to 1000nm
Scan Data Interval	1, 2 or 5nm selectable
Analysis	Absorbance and wavelength of peaks and valleys
Memory	50 methods and 3 scans
Kinetics	Graphical and calculated concentration value
Calibration	Against standard and factor
Correlation Factor	R2 displayed with result
Memory	50 methods and 3 graphed results
Concentration	-300 to 1999 Conc
Selectable Resolution	1, 0.1, 0.01 or 0.001
Calibration	Blank with a single standard or factor
Memory	50 methods
Quantitation	-300 to 1999 Conc
Selectable Resolution	1, 0.1, 0.01 or 0.001
Calibration	Blank with up to 6 standards
Curve Correction	Linear regression, interpolation or linear regression through zero
Memory	50 methods including calibration curve
GLP	Real time clock and calendar, Operator ID, Supervisor security, Method display lock
Outputs	Analogue and RS32
Input Voltage	115/230V a.c. -20% +10% 50/60Hz
Input Power	<50W
Size (w x d x h) mm	365 x 272 x 160
Weight	6 kg

Ordering Information

Order Codes	Description
631 501	Model 6315 supplied with mains lead, pack 100 UV/Visible disposable cuvettes, 10x10mm cell holder, interface cable, PC application Software on CD-ROM* and operating instructions (230V/50Hz).
631 531	Model 6315 supplied with mains lead, pack 100 UV/Visible disposable cuvettes, 10x10mm cell holder, interface cable, PC application Software on CD-ROM* and operating instructions (110V/60Hz).
630 204	10mm cuvette holder
630 005	Adjustable path length cuvette holder for 10 to 100mm tubes
634 001	Rotary cuvette holder for up to four 10mm cuvettes
648 001	Water heated cuvette holder compatible with a thermostatically controlled water circulator (037 201).
632 001	Sipper pump supplied with inlet and outlet tubing, mains cable and instruction manual (230V / 50Hz).
632 031	Sipper pump supplied with inlet and outlet tubing, mains cable and instruction manual (110V / 60Hz).
633 001	Heated cuvette system (cuvette holder and external control unit) supplied with interconnection cables, instruction manual, mains cables for EU, UK and USA, universal voltage and frequency.

6310 Kinetics, Scanning and Quantitation Spectrophotometer

- Concentration and kinetic measurements
- Spectrum scanning from 320 to 1000nm
- Quantitation using up to 6 standards
- 200 method memory (50 per mode)

The 6310 is an advanced measuring system with modes for Photometrics, Concentration, Quantitation, Kinetics and Scanning. The 6310 will meet the demands of a wide range of applications especially those in the clinical, veterinary, environmental, general QC and performance testing areas.

With a memory capacity of 50 methods for each mode, the fully open operating system ensures compatibility with reagent kits from most manufacturers, as well as enabling full customization to the operator's choice of chemistries and operating procedures.



Sipper Pump and heated cell holder accessories

This simple to use but feature rich spectrophotometer can be adapted to meet your current and future requirements through its novel customizable menus. Activating the Supervisor Security functions, enables all the Set-Up options to be locked without the entry of a security code number, and can further enhance the integrity of your work.

In the Photometrics mode, Absorbance, Transmission and Wavelength are displayed simultaneously on the readout so no range changing is required. Simple concentration measurements using a single standard or factor can be made in the Concentration mode. The Quantitation mode allows more complex concentration methods to be programmed, using up to six standards to create a calibration curve. For each curve fit option, a linearity correlation co-efficient is calculated.

A real time graphical display of Kinetic measurements is shown along with the calculated concentration value and other relevant data.

The Spectrum Scanning mode allows scans to be made across any selected portion of the 320 to 1000nm range.

The auto-ranging Absorbance axis allows scans to be commenced with no prior knowledge of the peak Absorbance level expected.

The 6310 has an analogue output that can be used to drive chart recorders and other analogue recording or conversion devices, as well as a bi-directional RS232 serial port for connection to serial printers and computers.

The optional 63-Ten software allows full emulation of the instrument functions on a PC including the import of results and download of methods.

An electrically heated cuvette holder and control unit is available as well as a water heated cuvette holder and a thermostatically controlled water circulator. The external, programmable sipper pump ensures faster and safer sample handling.

The large sample compartment enables a wide range of sampling devices to be fitted. Cuvette holders from 10mm to 100mm in path length, a four-position rotary cuvette holder, and test tubes from 12.5 to 25mm can all be accommodated.

Ordering Information

631 001	Model 6310 is supplied with a pack of 100 10x10 plastic cuvettes, mains lead, 10x10mm cuvette holder, interface cable and instruction manual, 230V/50Hz
631 031	Model 6310 is supplied with a pack of 100 10x10 plastic cuvettes, mains lead, 10x10mm cuvette holder, interface cable and instruction manual, 110V/60Hz

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Concentration	-300 to 1999 Conc.
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Calibration	Blank with a single standard or factor
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Calibration	Blank with up to 6 standards
Curve Correction	Linear regression, interpolation or linear regression through zero
Memory	50 methods including calibration curve
Kinetics Display	Graphical and calculated concentration value
Calibration	Against standard and factor
Correlation Factor	R2 value displayed with results
Memory	50 methods and 5 graphed results
Spectrum	Any range between 320 and 1000nm
Scan Data Interval	1, 2 or 5nm selectable
Analysis	Absorbance and wavelength of peaks and valleys
Memory	50 methods and 5 scans
GLP	-Real time clock and calendar
	-Operator ID
	-Supervisor security (locks all set up parameters)
	-Method display lock
Outputs	Analogue and RS 232 serial
Input voltage	115/230V a.c. -20% +10% 50/60Hz
Input Power	<50W
Size (w x d x h)	365 x 272 x 160mm
Weight	6 kgs.