

## Jenway Model 6315 - Scanning, UV/Visible range Spectrophotometer



Scanning UV/Visible spectrophotometer  
Scans in the range of 198 to 1000nm  
Uses pulsed xenon lamp  
200 method memory  
Quantitation using up to 6 standards

The new Jenway Model 6315 completes the 63 Series product range. Building on the platform of the highly successful 6310, the model 6315 uses a pulsed xenon lamp to extend the wavelength range to the UV region. The 6315 is an advanced measuring system with modes for Photometrics, Spectrum Scanning, Kinetics, Concentration and Quantitation and will meet the demands of a wide range of applications in areas such as clinical, veterinary, environmental and general QC testing.

### **Features include:**

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 customisation to the operator's choice of chemistries and operating procedures.

**Simple keypad layout and novel customisable menus** ensure reliable operation by unfamiliar users.

**Supervisor Security functions**, when activated, enable all the set up options to be locked. These cannot be changed without the entry of a security code number.

**Simultaneous display of Absorbance, Transmission and Wavelength** in the Photometrics mode means that manual range changing is not necessary.

**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 6 standards to create a calibration curve. For each curve fit option a linearity correlation coefficient is calculated.

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

**The Spectrum Scanning mode** allows scans to be made across and selected portion of the 198-1000nm range. The auto-ranging Absorbance axis allows scans to be commenced with no prior knowledge of the peak Absorbance level expected.

**The 6315 has an analogue output** that can be used to drive chart recorders and other analogue recording or conversion devices.

A **bi-directional RS232** serial port allows connection to serial printers and computers.

The **6315 PC Applications software** allows full emulation of the instrument functions on a PC, including the importing 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 10 to 100mm in path length, a 4 position rotary cuvette holder and test tubes from 12.5 to 25mm can all be accommodated.

## Specification

<b>Optics</b>	Single beam
<b>Wavelength range</b>	198-1000nm
<b>Resolution</b>	1nm
<b>Accuracy</b>	±2nm
<b>Bandwidth</b>	8nm
<b>Transmittance range</b>	0 to 199.9%
<b>Resolution</b>	0.1%
<b>Accuracy</b>	±1%T
<b>Absorbance range</b>	-0.300 to 1.999A
<b>Resolution</b>	0.001A
<b>Concentration range</b>	-300 to 1999Conc
<b>Selectable resolution</b>	1/0.1/0.01/0.001
<b>Calibration</b>	Blank with a single standard or factor
<b>Memory</b>	50 methods
<b>Quantitation</b>	-300 to 1999Conc
<b>Selectable resolution</b>	1/0.1/0.01/0.001
<b>Calibration</b>	Blank with up to 6 standards
<b>Curve Correction</b>	Linear regression, interpolation or linear regression through zero
<b>Memory</b>	50 methods
<b>Kinetics</b>	Graphical and calculated concentration value
<b>Calibration</b>	Against standard and factor
<b>Correlation factor</b>	r squared value displayed with result
<b>Memory</b>	50 methods and 5 graphed results
<b>Spectrum</b>	Any range between 198 and 1000nm
<b>Scan data interval</b>	1, 2 or 5nm selectable
<b>Analysis</b>	Absorbance and wavelength of peaks and valleys
<b>Memory</b>	50 methods and 5 scans
<b>GLP</b>	Real time clock and calendar Operator ID Supervisor security (locks all set up parameters) Method display lock
<b>Photometric noise levels</b>	<1%
<b>Photometric stability</b>	Better than 1%/hr
<b>Readout</b>	Custom LCD
<b>Outputs</b>	Analogue / RS232 serial port
<b>Input voltage</b>	115/230V a.c. -20% +10% 50/60Hz
<b>Input power</b>	<50W
<b>Size</b>	365(w) x 272(d) x 160(h) mm
<b>Weight</b>	6Kg

## Accessories

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