

# JENWAY

## 67 Series

Visible and UV/Visible Scanning Spectrophotometers

The 67 series spectrophotometers are a range of split beam visible and UV/visible spectrophotometers that possess a host of novel features. These include a colour touch screen, secure multi-user operation, a full range of plug-in accessory modules and flash synchronised scanning which allows the 67 series to achieve scan speeds of 1500nm/min, even when scanning at a resolution of 0.1nm.



## Introducing the 67 Series

The 67 series spectrophotometer range includes three models: Model 6700 covers the visible range of the spectrum and has a 4nm bandwidth; Models 6705 and 6715 cover the UV/visible range of the spectrum and have a 4nm and 1.5nm bandwidth respectively. All three models have modes for photometrics, spectrum scanning, multi-wavelength analysis, kinetics and quantitation. With extensive post measurement tools to ensure results are presented exactly to each users requirements the 67 series spectrophotometers also offer significant advances in data portability.

## Key Features

- Colour touch screen display
- High quality, sealed split beam optics for optimum photometric performance
- Secure multi-user operation
- Save to SD memory cards
- Extensive range of accessories
- 3 year warranty including xenon lamp



### Secure Multi-user Operation

Jenway have developed Secure Multi-user Operation for when instruments are shared by a number of users, so access to the instrument functions is controlled through a secure log-in procedure. For maximum security PIN codes can be allocated to individuals, groups or departments and to further increase flexibility each method can be given three levels of security:

- Public access is free to all users
- Read only methods can be accessed by all users, but only modified by the originator
- Personal methods can only be accessed by the logged-in user who created them

### Advanced Communications

The high capacity internal memory of the 67 series enables over 500 methods and results to be stored. Removable SD cards further increases the flexibility and data transfer and enables the direct transfer of results to a PC. Here all data can be viewed, exported, saved or printed for generating reports and standard operating procedures.

Copying the SD card to the instrument's internal memory enables the easy cloning of multiple instruments, ensuring common laboratory practice and speeding set-up in busy teaching establishments.



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## User Interface

The cutting edge user interface of the 67 series spectrophotometers utilises a colour touch screen to allow quick and easy navigation. Where fine cursor control is required, using the QWheel™ makes the task easy and precise.

## Versatile and Flexible

The 67 series spectrophotometers are very versatile and flexible instruments with an extensive range of accessories which have been specifically designed to be easily interchangeable. The active accessories including the 8-cell automatic turret (660 401), 6 cell water heated automatic turret (660 501), sipper pump (660 201), Peltier (660 301) and combined sipper/Peltier (660 701) are all supplied in sample chambers which are easily fitted into position. The passive accessories include 10x10mm path length cuvette holder, test tube holder for 10mm square cuvettes 16 and 24mm diameter tubes (637 071), 10 to 100mm adjustable path length cuvette holder (630 005), micro-cuvette holder with reduced aperture (630 304).



### 67 Series

Part code: 660 201, 660 401  
(Sold separately)

## 67 Series Accessories

Part Code	Description
630 204	10x10mm path length cuvette holder
637 071	Test tube holder for 10mm square cuvettes, 16 and 24mm diameter test tubes
630 005	10 to 100mm adjustable path length cuvette holder
630 304	Micro-cuvette holder with reduced aperture
660 401	Sample chamber with automatic eight-cell changer module fitted
660 501	Sample chamber with water heated automatic six-cell changer module fitted
660 201	Sample chamber with sipper module fitted
660 301	Sample chamber with Peltier module fitted
660 701	Sample chamber with sipper/Peltier module fitted
661 201	Single cell sample chamber module fitted with water heated cuvette holder
660 101	Optional fitted printer

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## Ordering Information

Product Code	Description
670 0B0	6700 fitted with a single 10 x 10mm cuvette holder
670 5B0	6705 fitted with a single 10 x 10mm cuvette holder
671 5B0	6715 fitted with a single 10 x 10mm cuvette holder

## Technical Specification

Wavelength range	320 to 1100nm (6700), 190 to 1100nm (6705, 6715)
Wavelength resolution	0.1nm
Wavelength accuracy	± 1.0nm
Wavelength repeatability	± 0.2nm
Spectral bandwidth	4nm (6700, 6705), 1.5nm (6715)
Transmittance	0 to 199.9%T
Absorbance	- 0.300 to 3.000A
Accuracy	± 0.005A at 1.0A
Resolution	0.1%T, 0.001A
Stability	< 0.001A/h after warm-up
Quantitation range	- 99999 to +99999
Quantitation resolution	selectable 1, 0.1, 0.01 or 0.001
Calibration	Up to 20 standards with 5 replicates of each
Units	mEq/l, ppm, mg/l, g/l, %, µg/ml, mg/ml, g/dl, mg/dl, µg/l, ng/l, µg/dl, M, mM, µM, U/l, mU/l, U/ml, blank
Curve fit algorithms	Linear, quadratic and cubic functions
Multi-wavelength	Up to 4 wavelengths
Calculations	Ratio, difference, formulae with factors
Kinetics time limits	0 to 9999 seconds
Calibration	Standard or factor
Analysis	Curve details with mean rate of change plus formula of line of best fit
Spectrum range	Any range between 320 (6700) or 190 (6705, 6715) and 1100nm
Scan speed	1500nm/min
Scan interval	0.1nm
Analysis	Auto peaks and valleys, zoom, addition, subtraction, peak ratios, smoothing, area under curve, wavelength table, derivatives, analysis points, overlay
Light source	Tungsten halogen lamp (6700), Xenon lamp (6705, 6715)
Configuration	Secure multi-user and free access
Number of users	10 users + supervisor
Methods/results memory	> 500 on internal flash memory or removable media
Removable media	SD memory card
Outputs	USB, Centronics, Analogue
Size (w x d x h)	490 x 390 x 220mm
Weight	7.5kg

# JENWAY

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