

# Spectrophotometers

## 6400 and 6405 Scanning Spectrophotometers

- 6400 Visible (320 to 1100nm)
- 6405 UV/Visible (190 to 1100nm)
- Single beam scanning units
- Easy to use keypad operation
- 5nm bandpass
- Wide range of accessories

The 64 series scanning units are ideal for all routine teaching, laboratory and research environments. Modes are available for photometrics, spectrum, kinetics, multi-wavelength analysis and quantitation\* using standard curve methods. These units have full scanning capability with three scan speeds and intervals, baseline correction, instant display of scan, automatic axis scaling, peak and valley data display and capacity to store two scans.

Sample flexibility is a key feature, with cells from 100mm path length down to micro sample capacity being readily accommodated. To further increase flexibility a wide range of accessories are also available.

\* requires 8 cell changer accessory

### Technical Specification

#### Wavelength

Range 6400	320 to 1100nm
6405	190 to 1100nm

Resolution 0.1nm

Accuracy  $\pm 1.0\text{nm}$

Spectral bandwidth 5nm

#### Photometrics

Transmittance 0 to 199.9%T

Absorbance -0.300 to 3.000A

Accuracy  $\pm 0.1\%T$  at 10%T,  $\pm 0.005A$  at 1.0A

Resolution 0.1%T, 0.001A

Stray light <0.05% at 340nm

Noise <0.001A at 0A

Stability <0.001A/h after 15 minutes

#### Concentration

Range -300 to 9999 (resolution dependent)

Resolution Selectable 1, 0.1, 0.01 or 0.001

Units ppb, ppm,  $\mu\text{g/l}$ ,  $\text{mg/l}$ , M, %, blank

Factor 0.000 to 9999.99

#### Spectrum

Range Any range between 320 (6400) or 190 (6405) and 1100nm

Scan speed Up to 1400nm/min

Scan interval 0.2, 1.0, 5.0nm

Analysis Absorbance or transmittance and wavelengths of peaks and valleys

#### Other

Light source 6400 Tungsten halogen lamp

6405 Tungsten halogen and Deuterium lamps

Lamp changeover 320 to 390nm (6405)

Outputs Analogue and RS232

Power 200VA

Size (w x d x h) 520 x 330 x 180mm

Weight 15kg



6400

### Ordering Information

Part Code	Description
640 001	6400 visible, scanning spectrophotometer supplied with pack 100 disposable cuvettes and mains lead (230V/50Hz)
640 501	6405 UV/visible, scanning spectrophotometer supplied with pack 100 disposable cuvettes and mains lead (230V/50Hz)

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## 64 and 65 Series Accessories

### Cell Holders

Part Code	Description
646 001	Universal test tube holder for 6400/6405 (P)
646 002	Universal test tube holder for 6400/6405 (F)
630 005	Universal cuvette holder, 10 to 100mm path length (F)
634 001	4 position cuvette holder (6400/6405 only)
644 001	Eight-position motorised cuvette changer (P)
644 002	Eight-position motorised cuvette changer (F)
644 003	Eight-position rack for 10mm cuvettes
644 103	Eight-position rack for 40mm cuvettes
644 203	Eight-position rack for 50mm cuvettes
645 001	Vacuum pump (P)
645 002	Vacuum pump (F)
630 304	Micro-cuvette holder with reduced aperture

### Heated Cell and Sipper Pump Options

Part Code	Description
642 001	Sipper pump (P)
642 002	Sipper pump (F)
633 001	Heated cuvette system (cuvette holder and external control unit), supplied with interconnection cables and mains cables (EU, UK and USA)
648 001	Water heated single cuvette holder
649 001	Eight-position water jacketed cuvette holder (for 10mm cuvettes)*
643 001	Peltier heated cuvette system comprising heated cuvette block and external power supply module (230V/50Hz) (P)
643 002	Peltier heated cuvette system comprising heated cuvette block and external power supply module (230V/50Hz) (F)
647 001	Temperature controlled sipper system (230V/50Hz) (P)
647 002	Temperature controlled sipper system (230V/50Hz) (F)
037 201	Water bath and circulator, ambient +5 to 50°C for use with 648 001 and 649 001 (230V/50Hz)

\* When used with the 64 series part code 644 001 is also required

### Printers and PC Software

Part Code	Description
050 501	DataWay PC software, supplied with interface cables
037 551	RS232 to USB converter for use with computers without a serial port
543 001	40 column serial printer supplied with interface cable, paper roll, ribbon, and UK power adapter
542 009	Interface cable kit
641 001	Internal printer (P)
641 002	Internal printer (F)
060 287	Paper roll for printer 543 001
060 288	Printer ribbon for 543 001
650 028	Data card, 1Mb additional memory (6500/6505 only)

### Miscellaneous

Part Code	Description
060 422	Moulded cuvette rack for 16 10 x 10mm cuvettes
035 088	Visible range Calibration Standards (6400 and 6500)
035 091	UV/Visible Calibration Standards (6405 and 6505)
640 133	Dust cover
012 075	Tungsten halogen lamp (all models)
640 508	Deuterium lamp (6405 and 6505)

(P) = Packed (F) = Factory fitted



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



**UK Office**

**Keison Products,**

**P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.**

**Tel: +44 (0)1245 600560**

**Fax: +44 (0)1245 600030**

**Email: [sales@keison.co.uk](mailto:sales@keison.co.uk)**

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.