



# UV-VIS Double Beam Spectrophotometer - 2205

Bandwidth - 1 nm



**COMPLIANCE WITH PHARMACOPOEIA**

- $\lambda$  Range 190 - 1100 nm
- Online Measurements
- GMP & GLP Compliance
- Holographic Concave Grating
- Graphic LCD Display

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# UV-VIS Double Beam Spectrophotometer - 2205

## SPECIFICATIONS

### • OPTICS

Double beam optics with aberration corrected Holographic concave grating with 1200 lines/mm blazed at 275 nm Monochromator.

### • CONTROL

Micro Controller Based

### • WAVELENGTH

Range 190 to 1100 nm  
Accuracy  $\pm 0.5$  nm  
Repeatability  $\pm 0.2$  nm  
Resolution 0.1 nm  
Bandwidth 1.0 nm

### • PHOTOMETRIC

Range  $\pm 3$  Abs  
Accuracy  $\pm 0.005$  Abs at 1.0 Abs  
Repeatability  $\pm 0.002$  Abs at 1.0 Abs  
• STRAY LIGHT  $< 0.05$  %T at 220 nm & 370 nm

### • BASELINE CORRECTION

Automatic

### • BASELINE FLATNESS

Within  $\pm 0.003$  Abs (200 to 1100 nm)

### • SCAN SPEED

Slow, Medium & Fast

### • DATA INTERVAL

Depends on scan speed

### • SAMPLE HOLDER

One fixed for 10 mm Sample & 10 mm Reference Cuvette

### • SOURCE

i) Tungsten-Halogen lamp (320 to 1100 nm)  
ii) Deuterium lamp (190 to 340 nm)

### • DETECTOR

Dual Photo Diode

### • CUT-OFF FILTER

Four glass filters, automatically selected

### • MEASURING MODES

i) Absorbance  
ii) %Transmittance  
iii) Concentration (K factor, Multi standard)  
iv) Multi Component Analysis

### • OPERATING MODES

i) Single Wavelength  
ii) Multi Wavelength  
iii) Scan  
iv) Time Scan

### • AUTOMATIC CALIBRATIONS/ OPTIMISATIONS

i) Base line calibration  
ii) Source optimisation  
iii) Cell optimisation (optional)  
iv) Wavelength calibration  
v) System check at power ON  
(All done through utilities provided)

### • DATA PROCESSING

i) Peak Pick / Valley pick  
ii) Zoom (Expansion) of Spectra  
iii) Derivative  
iv) Averaging of two scans  
v) Subtraction of two scans  
vi) Smoothing of spectra

### • DATA PRESENTATION

Display of graphic and tabular data on Graphics LCD (320 X 240 pixels), hard copy of graphic and data on printer

### • DATA STORAGE

For each operating mode five user defined files can be stored in memory

### • PRINTER PORT

Epson compatible 80 Column Dot Matrix PC Link data transfer

### • RS 232 PORT

PC Link data transfer

### • POWER

230V  $\pm 10\%$ , 50 Hz

### • DIMENSIONS

570(W) X 505(D) X 185(H) mm

### • WEIGHT

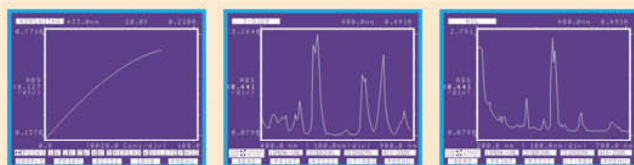
23 kg (Approx)

### • ACCESSORIES

Two matched 10 mm path length Quartz cuvettes

### • OPTIONAL ACCESSORIES

- Factory installed multi-cell holder for 10 mm cuvettes
- Holder for 50 mm or 100 mm cylindrical and rectangular cuvettes
- Personal Computer / Laptop
- Epson compatible 80 column D.M. Printer
- Standard RS 232 interface for Windows based PC link Software for Spectrum display, Storage/Retrieve, Peak -Pick, Point - Pick, Expansion of spectra, 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> Derivatives, Averaging of scans, Subtraction of Two scans



\*Technical Specifications, Appearance & model number are subject to change without prior notice in keeping up with the state of art.