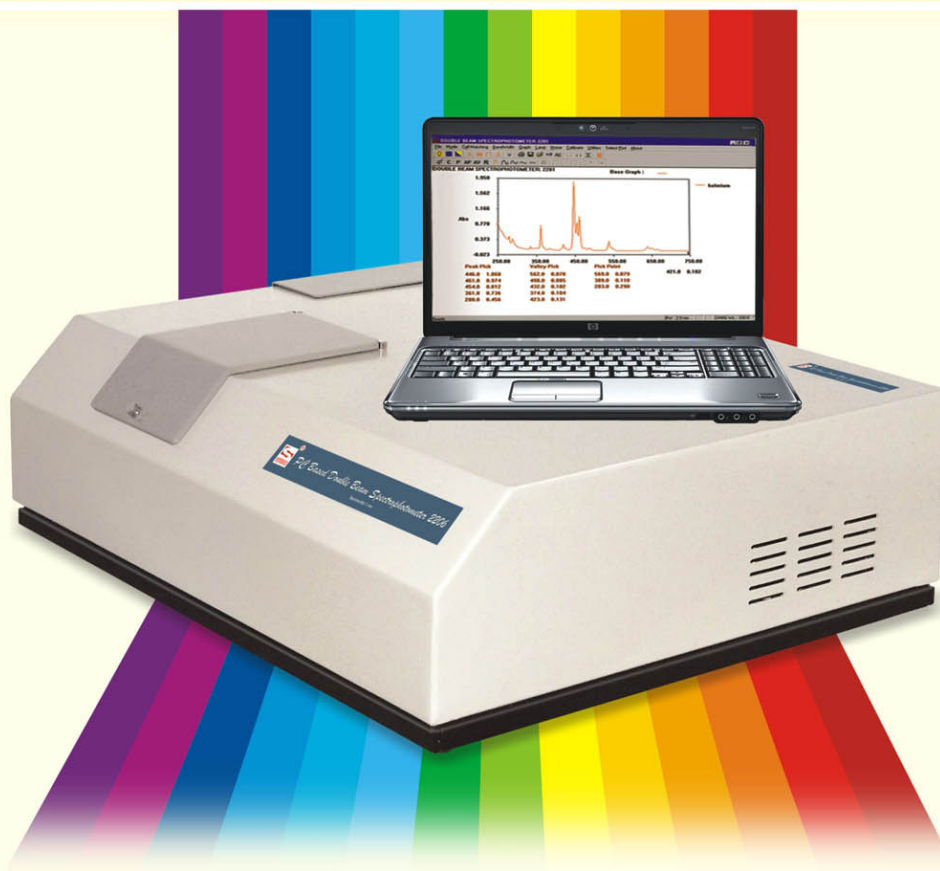


PC Based UV-VIS Double Beam Spectrophotometer - 2206

Bandwidth - 1 nm



Versatile instrument for Research and Development. The instrument is designed with precision and technique for accurate qualitative and quantitative Spectrophotometric analysis in Pharmaceutical, Agricultural, Chemical, Medical, Bio-technological, Forensic etc. fields. The PC based operation is user friendly for beginners and gives enough scope for data handling to experienced scientists.

COMPLIANCE WITH INTERNATIONAL PHARMA COPOEIA

- λ Range 190 - 1100 nm
- Holographic Concave Grating
- GMP & GLP Compliance
- PC Based

SYSTRONICS INDIA LIMITED

(SYSTRONICS DIVISION)

Works : 89-92, Industrial Area, Naroda, Ahmedabad - 382 330. Gujarat, INDIA.
Phones : +91 79 22813017 / 22813117, Fax : +91 79 22821592

Regd. Office : B/116-129, Supath-II Complex, Nr. Juna Wadaj Bus Terminus.
Ashram Road, Ahmedabad - 380 013.

Phones : +91 79 27557072, 27556077, Fax : +91 79 27552902

E-mail : sales@systronicsindia.com • mktg@systronicsindia.com

• Website : www.systronicsindia.com • CIN : U32201 GJ1973 PLC002437

MANUFACTURERS OF ELECTRONIC INSTRUMENTS AND SCIENTIFIC EQUIPMENTS.

BRANCH ADDRESS :

BRANCHES AT : BENGALURU, BHOPAL, BHUBANESHWAR, CHANDIGARH, CHENNAI, GUWAHATI, HYDERABAD, JAIPUR, KOLKATA, LUCKNOW, MUMBAI, NEW DELHI, PATNA & THIRUVANANTHAPURAM.

PC Based UV-VIS Double Beam Spectrophotometer - 2206

Bandwidth - 1 nm

SPECIFICATION

OPTICS

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

WAVELENGTH

Range : 190 to 1100 nm
Accuracy : ± 0.5 nm
Repeatability : ± 0.2 nm
Resolution : 0.1 nm
Bandwidth : 1.0 nm

PHOTOMETRIC

Range : ± 3.0 Abs (Usable upto ± 4.0 Abs)
Accuracy : ± 0.005 Abs at 1.0 Abs
Repeatability : ± 0.002 Abs at 1.0 Abs

STRAY LIGHT

Less than 0.05 %T at 220 nm and 340 nm

BASELINE CORRECTION

Automatic Baseline correction

BASELINE FLATNESS

Within ± 0.003 Abs from 200 to 1100 nm (excluding noises) after baseline calibration

SCAN SPEED

Slow, Medium and Fast

DATA INTERVAL

Depends on wavelength range and scan speed

SAMPLE HOLDER

One fixed for reference and One for sample (10 mm pathlength cuvette)

SOURCE

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

DETECTOR

Two Numbers UV-Enhanced wide range solid state Si-Photodiodes, one for reference & second for sample

ORDER CUT-OFF FILTER

Four glass filters, automatically positioned to eliminate grating spectral order interferences

OPERATING MODES

- (i) Single Wavelength
- (ii) Multi Wavelength (Max. 15 wavelengths)
- (iii) Scan (With multi-scan facility)
- (iv) Time / Kinetic Scan (With Derivative facility)

MEASURING MODES

- (i) Absorbance
- (ii) %Transmittance
- (iii) Concentration (K factor, multi standard)
- (iv) Multi-Component Analysis (Max. 10 components)

AUTOMATIC CALIBRATIONS / OPTIMISATIONS (GLP/GMP)

- (i) Base line calibration
- (ii) Source optimisation
- (iii) Wavelength calibration
- (iv) Electronics calibration
- (v) Self-diagnosis

DATA PROCESSING

- (i) Peak Pick / Point Pick / Valley pick
- (ii) Expansion / Compression of Spectra
- (iii) 1st, 2nd, 3rd and 4th Derivative
- (iv) Averaging of Scans
- (v) Subtraction of first two scans
- (vi) Three levels of smoothening of Spectra
- (vii) Ratio, Corrected ratio, 2 point and 3 point net Abs
(The facilities can be used for DNA, RNA & Protein Analysis)

DATA PRESENTATION

Display of graphic and tabular data on Computer Monitor, permanent data storage on hard disk, hard copy of graphic and tabular data on printer

COMPUTER SYSTEM

Intel Processor or higher version with Colour Monitor, RS-232 port or USB port with WIN-XP Operating System or above

RS 232 PORT

PC control (RS-232 or USB to serial)

POWER

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

DIMENSION

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

WEIGHT

23 kg

ACCESSORIES

Two matched 10 mm pathlength Quartz cuvettes

OPTIONAL ACCESSORIES

- Holder for 50 mm or 100 mm cylindrical and rectangular cuvettes
- Personal Computer / Laptop / Windows compatible printer
- For Kinetic Scan, use External Control Dry Bath / Incubator
- 5 Position auto sample holder for 10 mm pathlength cuvettes

