

COLOR TOUCH SCREEN UV-VIS SPECTROPHOTOMETER – AU 2702



Item Description:

The UV-VIS Spectrophotometer AU 2702 is designed to meet high requirement for precision measurement & research in the field of chemistry, biochemistry, medical, food, environmental, water etc. The latest ARM System and long optical system ensure high accuracy and good stability of the instrument.

Features:

1. 10.1 Inches high resolution TFT colored capacitive touch screen and windows Graphic interface make the instrument easy to operate. The finger touch and mouse can be used equally in the same user interface.
2. The in-house massive memory is capable of saving up to 1024M for test data & working curves. It support USB & SD card storage. The USB port can be used for data transfer, which can be easily exported to Excel file for further processing, analysis & storage.
3. Powerful functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum Scan, DNA/RNA/Protein test, multi wavelength test etc.
4. Socket type deuterium lamp & Tungsten lamp can make lamps switching without optics debugging and easier to be replaced.
5. Large room for samples can hold cuvettes of various specifications.
6. Auto 8-cell holder can be accommodate (Optional)
7. 21 CFR Management software is optionally available

8. Measuring modes: Transmittance, Absorbance, Concentration, and Energy.
9. For each operating 5 user data file can be stored and while operating through PC "n" number of data file can be stored.
10. Operation: Both instrument and PC (PC Control software coming along with the instrument)
11. Data Processing: Peak Pick/Point Pick/Valley pick, Expansion/Compression of Spectra, 1st, 2nd, 3rd, and 4th Derivative, Averaging of Scans, Subtraction of first two scans, Three levels of smoothening of spectra, Ratio, corrected ratio, 2 point and 3-point net Abs (The facilities can be used for DNA and Protein Analysis).

Specifications:

ITEM	DESCRIPTION
Optics	Modified Czerny-turner Monochromator geometry for better aberration correction. Holographic Diffraction Grating of 1200 gr/mm blazed at 250nm; Bandwidth 0.5 to 20.0 nm PC Controlled setting.
Wavelength	*Range: 190nm to 1100nm * Resolution: 0.1 nm (190nm to 1000nm)
Photometric	*Range: ± 4.0 Abs *Accuracy: ± 0.003 Abs at 1.0 Abs *Repeatability: ± 0.0001 Abs at 1.0 Abs
Stray Light	Less than 0.01% T at 220 and 370nm
Baseline Correction	Automatic baseline correction
Baseline Flatness	Within ± 0.001 ABS
Scan Speed	Slow, Medium and Fast (270nm/min, 400nm/min and 600nm/min in SLOW, MEDIUM & FAST for a span of 600nm)/ better.
Data Interval	Minimum possible 0.05nm for slow, 2nm .
Sample Holder	Standard sample holder with two cell position where One for reference and another to place sample cell.
Source	*Tungsten Halogen Lamp: 310 nm to 1000nm * Deuterium Lamp with quartz window: 190nm to 340 nm. Preferred usage is 200nm to 310 nm.
Detector	Photo Multiplier Tube (Low Noise P.M.T)/ Silicon photodiode
Minimum Sample Volume	As required.
Measuring Modes	1. Absorbance 2. % Transmittance 3. Concentration (K-factor, Multi-Standard) 4. Multi-Component Analysis (Max. 10 components)
Automatic Calibrations/Optimizations	Self-test during instrument start-up providing both visual test sequence and external indication when instrument is ready for operation
Operating Modes	*Single Wavelength, *Multi-Wavelength (Max 15 wavelengths), *Scan (with multi-scan facility) *Time Scan (with Derivative facility)

Data Processing	<ul style="list-style-type: none"> *Peak Pick/Point Pick/Valley Pick * Expansion/Compression of Spectra *1st,2nd,3rd and 4th Derivative *Averaging of Scans *Subtraction of first two scans *Three levels of smoothening of Spectra *Ratio, Corrected ratio, 2-point and 3-point Net Abs
Data Presentation	Display of graphic and tabular data on the Computer monitor; permanent data storage on hard disk or floppy disk; hard copy of graphic and tabular data on printer With Computer of i5 Configuration.
Power	230 V,+/-10%, 50 Hz
Standard Accessories	2 sets of matched 10 mm Quartz Cuvettes
Warranty	2 year from the date of Installation



SYSTRONICS (INDIA) LIMITED
 B/116-129, 1st Floor, Supath II Complex,
 Nr. JunaWadaj Bus Terminus, Ashram Road,
 Ahmedabad – 380013.

