

UV - VISIBLE SPECTROPHOTOMETER

108

0.5 nm
Bandwidth



118

2 nm
Bandwidth



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MANUFACTURERS OF ELECTRONIC INSTRUMENTS AND SCIENTIFIC EQUIPMENTS.

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SYSTRONICS single beam UV-VISIBLE SPECTROPHOTOMETER 108 (0.5 nm bandwidth) & UV-VISIBLE SPECTROPHOTOMETER 118 (2nm bandwidth) are reliable, versatile single beam semiautomatic digital instruments for both qualitative and quantitative analysis, on spectrophotometric absorption, % transmittance and concentration, for industries, agricultural chemical, medical, bio-technological, forensic, teaching and research institutions

Low bandwidth (0.5 nm bandwidth) single beam UV-VISIBLE SPECTROPHOTOMETER 108 with low noise photomultiplier tube (PMT) as detector is very suitable for pharmaceutical as well as research purpose due its high resolution power, sensitivity and stability

Single beam UV-VISIBLE SPECTROPHOTOMETER 118 (2nm bandwidth) with Silicon photo diode as the detector most preferred instrument for industries as well as institutions due to its high stability and rigidity

Both the instruments having microcontroller based digital wavelength readout with resolution of 0.1nm. The instruments are modified Czerny-Monochromatic geometry for better aberration correction, holographic grating 1200 lines / mm blazed at 250 nm. with manual selection of four glass filters to eliminate spectral order interference

SPECIFICATIONS	108	118
Optics Grating	Single Beam 1200 Lines / mm	Single Beam 1200 Lines / mm
Wavelength Range	200 to 900 nm	200 to 1000 nm
Readout	Electronic Digital counter, 0.1 nm increments	Electronic Digital counter, 0.1 nm increments
Accuracy	±0.5 nm	±1 nm
Repeatability	±0.2 nm	±0.5 nm
Spectral Bandwidth	0.5 nm	2 nm
Photometric Range	Digital 0 - 2.000 Abs 0 - 1999 concentration units 0 - 100% transmission	Digital 0 - 2.000 Abs 0 - 1999 concentration units 0 - 100% transmission
Accuracy	±0.005 Abs at 1 Abs	±0.005 Abs at 1 Abs
Repeatability	±0.002 Abs at 1 Abs	±0.002 Abs at 1 Abs
Stray Light	Less than 0.1% at 220 nm, 340 nm	Less than 0.1% at 220 nm, 340 nm
Source	(a) Tungsten-Halogen Lamp (b) Deuterium Lamp	(a) Tungsten-Halogen Lamp (b) Deuterium Lamp
Detector	Wide range, low noise PMT	UV-Enhanced wide range solid state Si-photodiode
Filters	Manual Selection	Manual Selection
Sample Holder	Manual 4-position sample changer for 10 mm cuvettes (cells)	Manual 4-position sample changer for 10 mm cuvettes (cells)
Construction	Semi Automated unit consisting of wavelength selection by Micro-controller device & photometric range selection by manual	Semi Automated unit consisting of wavelength selection by Micro-controller device & photometric range selection by manual
Power	230V ±10%, 50Hz	230V ±10%, 50Hz
Dimensions	745 (W) X 480 (D) X 200 (H) mm	745 (W) X 480 (D) X 200 (H) mm
Weight	24 kg	24 kg
Accessories	Two matched 10mm path length quartz Cuvettes	Two matched 10mm pathlength quartz Cuvettes
Optional Accessories	Single Position 20 to 50 mm Cuvette Holder (Factory Installed)	Single Position 20 to 50 mm Cuvette Holder (Factory Installed)

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