UV Plus   Spectrophotometer

MS UV Plus is the ideal True Double Beam spectrophotometer for laboratory use. It's advanced built-in Desktop Class PC based UV Visible Spectrophotometer having dual detector which comes with 8 inch 1280x800 pixel graphic color LCD display & built-in Wi- Fi & Bluetooth connectivity,
Internationally sourced, high-quality blazed concave holographic grating with 1200 lines per mm in Czerny-Turner configuration paired with dual Silicon photo detector sourced from Hamamatsu Photonics means that your analysis result will be extremely accurate without compromise.

Colour Touch Screen with Desktop OS

With CFR21 Compliance

Pharmacopeia Compliance

Features

- Built in Desktop OS with high resolution LCD touch screen display
- Xenon lamp for long life.
- Optional: Auto change & control of D2 and Visible lamp & extended lifetime of 3 years for low noise.
- Pre-aligned optics allow easy lamp change operation
- Large sample compartment to accommodate various path length cuvettes
- Configurable scan wavelength from 0.1nm to 20 nm/min for accurate/faster analysis
- Analysis applications supports the following modes:
    - Single Wavelength (Measuring ABS, T%, CONC.)
    - Spectrum Time Scan (Measuring ABS, T%)
    - Spectrum Scan (Measuring ABS, T%)
    - Multi-wavelength
    - DNA/Protein analysis
- Perform analysis on your Android based mobile/tablet using Bluetooth*
- Option of multi parameter analysis in software for direct reading
- User option available to configure multi parameter with custom reagent

UV Plus &Scanalyse are registered trademark of Motras Scientific
*Bluetooth accessory optional
+Not part of Standard Accessories
*Specifications subject to change without prior notice
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Specifications

Parameter	Details
Wavelength range	190.0nm to 1,100.0 nm
Spectral bandwidth	Fixed -1 nm (190.0 to 1,100.0 nm) Optional (0.5, 1, 2, 4 nm)
Wavelength setting	0.1nm increments
Wavelength display resolution	0.1 nm.
Measuring Modes	ABS, %T, CONC with custom K-Factor and multiple standards
Wavelength accuracy	±0.1 nm for entire range (190 to 1100 nm)
Wavelength repeatability	±0.2 nm
Wavelength slew rate	About 29,000 nm/min
Wavelength scanning speed	3,600 to 2 nm/min, Survey mode 29,000 nm/min for high speed kinetic studies
Lamp interchange wavelength	Automatic changeover of wavelength with configurable wavelength.
Stray light	Less than 0.05% at 220 nm (NaI) Less than 0.03% at 340 nm (NaNO2) Less than 0.5% at 198 nm (KCl)
Photometric system	True Double beam Optics
Photometric readability range	Absorbance: -4.00 to 4.00 Abs Transmittance: 0% to 400%
Photometric accuracy	±0.0003 Abs at 0.5 Abs ±0.0005 Abs at 1.0 Abs ±0.0006 Abs at 2.0 Abs
Photometric repeatability	Less than ±0.0002 Abs at 0.5 Abs Less than ±0.0008 Abs at 1 Abs Less than ±0.0008 Abs at 2 Abs
Baseline stability	Less than 0.0003 Abs/Hr @ 700 nm (one hour after light source ON)
Baseline flatness	Less than ±0.002 Abs(avg. of points) (1,100 to 190 nm, one hour after light source switched ON)
Noise level	Less than 0.0006 Abs (500 nm)
Light source	Plug- in pre-aligned Xenon /Tungsten Halogen lamp and UV Deuterium lamp
Monochromator	Blazed concave holographic grating 1200 lines/mm in Czerny-Turner mounting
Detector	Dual Silicon photodiode sourced from Hamamatsu Photonics
Sample compartment	Internal dimensions: 115 (W) x 250 (L) x 90 (H) mm Distance between light beams: 80 mm
Power requirements	AC 230 +10% with proper ground.50Hz, 160 VA.
Environmental requirements	Temperature: 15ºC to38ºC Humidity: 30% to 80%
Dimensions	430 (W) x 560 (L) x 195 (H) mm
Weight	25Kg
Output device	Inbuilt with Desktop OS with high resolution touchscreen LCD
Optional Accessories	8 cell auto sampler, Variable Slit 0.1nm to 4.0nm, Microcell,Variable Long path 20, 40, 50, 100 mm cell, Constant Temperature attachment.
Software	Software Pre programmed for more than 250 test
Validation	Automatic measurement and pass/ fail evaluation and printing of results.
Connectivity	LAN/Ethernet/WiFi/Bluetooth
Bar code:	automatic method recognition including measurement range