IA ANALYTICS
Excellence in Analytical Instruments

UV Plus Spectrophotometer

IA UV Plus is the ideal spectrophotometer for laboratory use. It's advanced built-in Windows 10 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 Windows 10

With CFR21 Compliance

Pharmacopeia Compliance

Features

- Built in Windows 10 with high resolution LCD touch screen display
- Individual control Visible lamps & extendable over D2 and to extend lifetime
- 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*

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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)
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 at 656.1nm ±0.1 nm for entire range (190 to 1100 nm)
Wavelength repeatability	±0.1 nm
Wavelength slew rate	About 6,000 nm/min
Wavelength scanning speed	3,600 to 2 nm/min
Lamp interchange wavelength	Automatic changeover of wavelength with configurable wavelength.
Stray light	Less than 0.022% at 220 nm (NaI) Less than 0.022% at 340 nm (NaNO2) Less than 1.0% 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	±0.002 Abs at 0.5 Abs ±0.004 Abs at 1.0 Abs ±0.006 Abs at 2.0 Abs
Photometric repeatability	Less than ±0.001 Abs at 0.5 Abs Less than ±0.001 Abs at 1 Abs Less than ±0.003 Abs at 2 Abs
Baseline stability	Less than 0.0002 Abs/Hr @ 700 nm (one hour after light source ON)
Baseline flatness	Less than ±0.0005 Abs(avg. of points) (1,100 to 190 nm, one hour after light source switched ON)
Noise level	Less than 0.00005 Abs (700 nm)
Light source	Plug- in pre-aligned 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: 15°C to38°C Humidity: 30% to 80%
Dimensions	430 (W) x 560 (L) x 195 (H) mm
Weight	22Kg
Output device	Inbuilt with Windows 10 high resolution touchscreen LCD
Optional Accessories	8 cell auto sampler, Variable Slit 0.1nm to 4.0nm, Microcell, Long path 20, 40, 50, 100 mm cell, Constant Temperature attachment.
Software	Scanalyse® software (Microsoft Windows 7 and above) CFR-21 compliance
Validation	Automatic measurement and pass/ fail evaluation and printing of results.
Connectivity	LAN/Ethernet/WiFi/Bluetooth

*Bluetooth accessory optional
+Not part of Standard Accessories
*Specifications subject to change without prior notice
Version 5.0

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