



The UV1000 Spectrophotometer incorporates dual monochromator technology making it well suited to even the most demanding of applications in all areas of UV-Visible Spectroscopy including:

- Pharmaceutical
- Material Science
- Metrological Verification Biotechnology
- · Food Safety
- Research

Wireless instrument control and data acquisition can be achieved from a Tablet PC using Wi-Fi technology allowing the analyst to move freely around the laboratory whilst also keeping track of sample measurements.

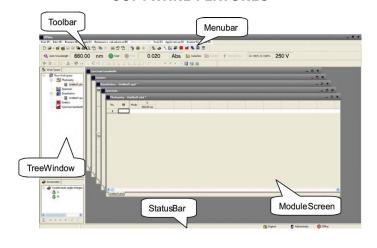
The optical design of UV1000 offer extremely low stray light characteristics (0.0001%T Nal,220 nm) which allows for an extensive photometric range (-6.0-6.0Abs). Measurements at deep ultra-violet wavelengths can also be achieved with use of Nitrogen purged optics.

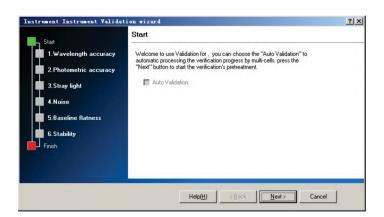
The instrument can be optically configured to suit the needs of the sample by means of a continually adjustable slit for precise control of spectral resolution and beam size adjustment by means of an attenuating wheel.

Precise wavelength accuracy is ensured by the integrated Mercury Emissions Lamp used for automatic correction of spectral deviation.

A whole host of specialised accessories are available to suit the specific requirement of the sample, these include

SOFTWARE FEATURES

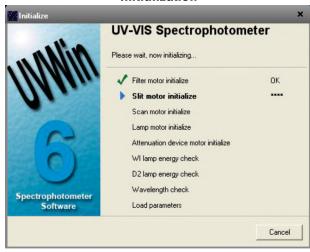




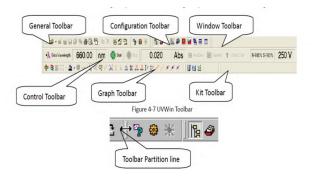
Instrument Validation Wizard

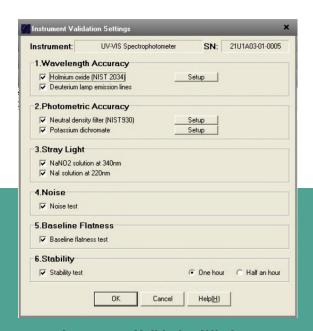
- Both 60mm and 150mm Integrating Sphere for Diffuse reflectance measurements.
- · Absolute, and Specular reflectance measurements accessories.
- · Polarizing Optics.
- Thermostatic Cell Holders for temperature control.
- · Various long and short path length cell holders.
- Automated cell changers for both sample and Reference beams
- Tablet dissolution accessory for pharmaceutical quality control.

Initialization



UVWin Main User Interface





Instrument Validation Window

CERTIFICATION

UVWin GLP has been evaluated and tested by a third party software validation specialist. As a result it was found that UVWin GLP offers all of the features and functions required for use in compliance with the guidance specified in:

• 21CFR Part 11



14 KINDS OF ACCESSORIES

MEET ALL YOUR ANALYSIS



Integrating Sphere

- Types: Diameter 150mm and 60mm
- Range of Application: Solid sample, power sample, liquid sample, glasses
- Measurement Methods: Diffuse reflectance, total reflectance, diffuse transmission and total transmission
- · Sample Placement: front wall, black wall and Center
- Software: Glasses application software and textile application software
- The coating material has high reflectance in UV-VIS spectrum
- Larger internal space, you can install optional test accessories, such as small sample test accessory, glasses test accessory, fluorescence test accessory, movable sample test accessories
- Integrating sphere can be off-host and independent utility with external light source

Specifications

Туре	DIS150-1	DIS60- 1
WL Range	200-850nm	
Detector	PMT	
Diameter	150mm	60mm
Coating	Spectraflect	
Reflectance		
Open Diameter	25mm	17mm
Transmission		
Open Diameter	20mm	12mm
Open Percentage	8017%	10.00%
Noise	100T%: <0.3% (800nm) <0.1% (500nm) <0.2% (250nm) 0T%: <0.02% (800nm) <0.01% (500nm) <0.02% (250nm)	
Size	675mm*330mm*265mm	513mm*330mm*265mm
Drift	<0.1% (500nm)	

SPECIFICATIONS

Source

True Double beam, double monochromator, UV Visible Spectrophotometer Sealed and Quartz coated Czerny-Turner Principle

with microcomputer electronics controlled by DELL PC or compatible personal computer

All reflecting optical system with holographic grating Optical system

High Energy Photo Multiplier tube Detector Wavelength Slew Rate -14500 nm/min Wavelength Scanning Speed

Scan Rate -About 4500 to 0.5 nm/min

Wavelength Range 185 - 900 nm

> D2 Lamp - UV Region W Lamp - Visible Region

Hg Lamp - Wavelength Correction

Automatic selectable light source lamp switching

Variable bandwidth, 0.1 - 5.0 nm continuously adjustable Bandwidth

UV/VIS Resolution

Straylight At 198nm for KCL 0.05%T

> At 220nm Nal ASTM Method 0.00004%T At 340nm NaNo2 0.00005%T

Wavelength Accuracy ± 0.1 nm

Wavelength Reproducibility 0.05nm Deuterium Lamp

Photometric Accuracy ±0.004A @2.0 A

±0.003A @1.0A ±0.002A @0.5 A

 $\pm 0.3\%$

Baseline Flatness $\pm 0.0008 Abs$

Range: 190-900nm

Baseline Stability 0.0005Abs (500nm, 0Abs), 2hours warm-up

Photometric Range -6.0 Abs - +6.0 AbsCommunication Port RS 232C, USB, WiFi

Software/Data Processing UV-Win Software to control complete UV-VIS Spectrophotometer is Latest Windows based, also offering extensive

> administrative capabilities along with a detailed audit trail & 21CFR Part 11, GLP/GMP/GRP Compliance. Built in Performance Verification feature enabling it to comply with various methodologies like ASTM, IS & ISO. For interpretation of measurement results, it is offering Four key workspaces -- Spectral Analysis, Quantitative Analysis, multi component analysis, multilevel calibration, baseline correction, Kinetic Analysis & Photometric Analysis, this features allows the user for complete

spectrophotometer control, Data storage, Spectral overlay in 3D Display mode, create customized report templates, Built in User group creation with Audit trail, log history and Password protection. All UV- VIS Data processing parameters and mathematical tools for interpretation like Point pick, Peak/Valley detection, Abs- %T conversion, Normalization, Exponential Convention, Auto calculation of % SD, % RSD and Average, Quantitative workspace to determine the concentration of unknown sample, create a calibration curve using single and multi point calibration, 1st to 4th derivative co-relation and

derivative spectroscopy, Export measurement data to Word, Excel, CSV and ASCII format.

Specular Reflection Accessory, Integrating Sphere 60mm / 100mm **Optional Accessory**

Automatic 8 Cell Changer, long path cell holder, Peltier Solid Sample holder etc.

Switchable 120 - 230VAC 50 - 60Hz **Power Supply**



www.labindia-analytical.com / For Enquiries: sales.mfd@labindia.com

Labindia Analytical Instruments Pvt. Ltd.

HEAD OFFICE:

Thane: 201, Nand Chambers, LBS Marg, Near Vandana Cinema, Thane (W) - 400 602. Tel.: +91-22-2598 6000 / 2598 6110 E-mail: sales.mfd@labindia.com

REGIONAL OFFICES:

Delhi: Tel.: +91-11-4330 6001 / 10 Chennai: Tel.: +91-44-2434 7008 / 2432 0352 Kolkatta: Tel.: +91-33-2466 3362

Bangalore: Tel.: +91 80 4565 6200 **Lucknow: Tel.:** +91-522-2346 535 / 2346 496 Hyderabad: Tel.: 040 4444 3530

Vadodara: Tel.: +91-265-2986 005 / 2986 006 Pune: Tel.: +91-20-2545 3386 Chandigarh: Tel.: +91-172-4090 001-07 / 4090 009

FACTORY 1: Plot No. EL-72, Electronic Zone, TTC Industrial Area, Thane Belapur Road, Navi Mumbai - 400 705.Tel.: +91-22-6107 6666 FACTORY 2: Plot No. W-401, TTC, MIDC Industrial Area, Rabale, Thane-Belapur Road, Navi Mumbai 400 701. Tel.: +91-22-6107 6555

APPLICATION & TRAINING CENTRE: R-909, TTC Industrial Area, Thane Belapur Road, Rabale, Navi Mumbai - 400 701. Tel.: +91-22-6107 6555





