

Specifications of UV Visible Spectrophotometer:

Optical System: Double Beam with sample and reference cell holder

Source: Deuterium & Tungsten

Wavelength Range: 190nm to 900nm or better

Working Mode: PC controlled

Spectral Band Width: Variable between 0.5 to 5 nm or better

Scanning Speed: 3000 nm/min or more

Monochromator: Czerny Turner mounting with 1200 lines/mm or better

Wavelength Accuracy: + 0.1nm @656.1nm D2

: + 0.3nm entire range (190 to 900nm or better)

Wavelength Repeatability: 0.1nm

Stray Light: <0.02%T @340nm for NaNO₂

<0.9% T @198nm for KCl

Photometric Range (approx.): -4 to 4 Abs, Transmittance 0-100%

Photometric Accuracy: +0.002 Abs (0-0.5)

: +0.004 Abs (0.5-1A)

: +0.006% T (2A)

Photometric Reproducibility: 0.001 Abs (0-0.5A)

0.01 Abs (0.5-1A)

0.15% T (0-100%T)

Stability (Photometric drift): <0.004 A/hour at 1A, 500nm/700nm

Baseline Flatness: +0.0015 Abs (190-900 nm or better)

Noise Level: 0.00005 Abs RMS @700nm

Cuvettes: One additional set Quartz cuvette (10mm, 3.5ml)

Detector: Silicon photo diode detector or PMT

- PC and printer: OEM factory supplied OR compatible i3 or better PC with 4GB, 500GB HDD, Flat screen monitor, optical mouse, preloaded windows and laser jet printer should be quoted along with system
- Communication should be through USB
- Suitable online UPS with at least 30 min backup
- System should support up gradation to multicell holder, peltier control, fiber probe, film holder, micro sampling and autosampler, DRA/integrating sphere etc.
- Warranty: 2 years
- Built in hardware and software validation and reporting wavelength, Wavelength repeatability, resolution, stray light, noise level etc.
Software should be GLP/GMP Compliance, IQ, OQ, PQ documentation.
- Free onsite installation and training for support

Important Note:-

1. All the requirements laid down under the above specifications must carefully read and understood before claiming your instrument as "complied".
2. All specifications must be guaranteed.
3. Please provide compliance statement sheet with technical bid and if there is any deviation in above mentioned specifications should be clearly highlighted in remarks.
4. Anything extra required for installation should be quoted along with instrument.

Kirandeep Kaur
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Verified
Anwar
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