Shimadzu UV-1601 UV-Visible Spectrophotometer

Specifications

Wavelength range

- 190.0 to 1100.0nm

Spectral bandwidth

- 2nm

Wavelength display

- Readable to 0.1nm

Wavelength setting

- 0.1nm increments (1nm increments for wavelength slewing)

Wavelength accuracy

- ±0.5nm (Automatic wavelength correction)

Wavelength reproducibility

- ±0.1nm

Wavelength slew rate

- About 6000nm/min.

Wavelength scanning speed

- About 3200nm/min. to about 160nm/min.

Data bunching interval

- Automatic selection of 2.0, 1.0, 0.5, 0.2, 0.1nm

Lamp interchange wavelength

- 295.0~364.0nm (340.8nm)

Stray light

- Less than 0.05% (at 220.0nm and 340.0nm)

Photometric system

- Double-beam optics

Photometric range

- Absorbance : -0.5~3.999Abs.
- Transmittance: 0.0~300%

Photometric accuracy

- ±0.004Abs. at 1.0Abs. (Tested with NIST 930D filter)
- ±0.002Abs. at 0.5Abs.

Photometric reproducibility

- ±0.002Abs. at 1.0Abs.
- ±0.002Abs. at 0.5Abs.

Baseline stability

- Less than ±0.001 Abs./hour

Baseline flatness

- ±0.002Abs.

Baseline correction

- Automatic with computer memory, in two stages of coarse and fine

Light source

- 50W halogen lamp (2,000 hrs life) and deuterium lamp

Monochromator

- Aberration corrected concave blazed holographic grating

Detector

- Silicon photodiode

Sample compartment

- Inner dimensions: $W^{110.0}$ X $D^{230.0}$ X $H^{105.0}$mm (partly 105mm deep)
- Distance between light beams: 100.0nm
- Installation: Fixed with 2 screws
- Beam size: 10 X 1mm

Interface ports

- RS-232C and Centronics ports for UV-1601
- RS-232C port for UV-1601PC

Power requirements

- 100, 120, 220, 240VAC, 50/60 Hz, 160VA.

Ambient requirements

- Temperature: 15~35°C
- Humidity: 45~80%

Dimensions and weight

- W^{550} X D^{470} X H^{200}mm, 18kg