

Double-Beam UV-Visible Spectrophotometer

Automatic UV-visible scanning with five selectable bandwidths and an eight-inch touchscreen. Supports photometry, quantitative analysis, kinetics and multiwavelength measurement.



Technical Information

Model	PT-UVS-001
Optical design	Double beam
Wavelength range	190-1100 nm
Spectral bandwidth	0.5 / 1 / 2 / 4 / 5 nm
Wavelength accuracy	±0.3 nm
Wavelength repeatability	≤0.1 nm
Monochromator	Czerny-Turner
Focal length	200 mm
Grating density	1600 lines/mm
Detector	Photocell
Display	8-inch color touchscreen
Source switching wavelength	340 nm
Stray light	≤0.02%T (220 nm: NaI; 360 nm: NaNO ₂)
Photometric range	0-200%T; -0.301-4.000 A; 0-9999 C

Technical Information

Photometric accuracy	$\pm 0.3\%T$; ± 0.002 Abs (0-0.5 A); ± 0.004 Abs (0.5-1 A)
Photometric repeatability	$\leq 0.15\%T$; 0.001 Abs (0-0.5 A); 0.002 Abs (0.5-1 A)
Baseline drift	≤ 0.0004 A/h (250 / 500 nm; 2 h warm-up)
Baseline flatness	± 0.0008 A
Noise	$\leq 0.1\%T$
Scan speeds	Fast / medium / slow
Data functions	1-3 wavelengths; polynomial fit orders 1-3; derivatives 1-4
Communication	USB
Power supply	AC 220 V ± 22 V; 50 Hz ± 1 Hz

Standard configuration

Main instrument, deuterium/tungsten light sources, touchscreen and UVwin8 software package.

Optional configuration

Additional accessories are not specified; confirm sample holders and cuvettes in the quotation.

Selection and ordering

Specify wavelength, bandwidth, sample type and cuvette path length. Confirm software language and computer requirements.