

UV-TS 2090Plus / TS 2080Plus

Spectrophotometer Double Beam





The UV-TS 2090Plus/TS 2080Plus spectrophotometer double beam applies a new optical bench, with 5-speed adjustablebandwidth(TS2090Plus only), ARM chip control and data processing, 8-inch color touch-screen which displays menu and spectral curve and can analyze spectrum test data. It's quite easy for user and computer interaction. Theinstrument can perform following operations, including photometry, automatic scanning spectral measurement, quantitative analysis, dynamic analysis, and multi-wavelength measurement.

The instrument serves as the basic equipment for quality control, technical evaluation and scientific research, and can be widely used in susceptibility testing, medicine and health, biochemistry, environmental monitoring, commodity inspection, petrochemical and other fields.

>> Features:

- New optical platform, enabling the host machine with excellent optical properties, metering performance, low stray light and noise, high metering accuracy and stability.
- Unique system of deuterium and tungsten lamp installation, facilitating the light source to automatically switch to the best position, and allowing users to operate the instrument, replace the light source and maintain the instrument more conveniently, accurately and safely.
- Sophisticated hardware and software design, empowering the instrument with powerful spectral data processing and storage capailities, and performing following functions, including automatic scanning of measured spectrum, multi-wavelength (1-3 λ) measurement, kinetic measurement, Quantitative analysis, time course measurement, fixed wavelength measurement, validation, Daily maintenance 1-3 curve fitting, 1-4 derivative spectra, spectra printing and storage and data analysis.
- 8-inch color touch-screen, with a good user-machine interface, easy-to-operate.
- Standard functions include IQ Accessories, Start button, Analog output
- · USB communication port.

>> Standard Accessories

Operation manual	1	
Quartz cuvette 1cm	2pcs	
Power cable	1	
Fuse	2pcs	

>> Optional Accessories

UV WIN8 Spectrum data processing software



>> Specifications

	TS 2090Plus	TS2080Plus	
Photometry	Double	Double Beam	
Monochromator Type	Czerny-Turner		
Focal Length	200mm		
Grating	1600 lines/mm		
Detector	Silicon Photocell		
Spectrum Bandwidth	0.5nm, 1nm, 2nm, 4nm, 5nm	1nm	
Wavelength Setting	8-inch color touch-screen		
Wavelength Range	190-1100nm		
Wavelength Accuracy	±0.2nm (a	t 656.1 nm)	
Wavelength Repeatability	±0.1nm		
Scanning Speed	Fast-Medium-Slo	ow, upto 8000 nm/min	
Stray Light	≤0.02%T(at 220nm NaI, 340nm NaNo2), 1% (198 nm KCl)		
Photometric Range	Absorbance -3 to 3 Abs Transmittance 0% To 300%		
Photometric Accuracy	±0.3%T ±0.0015 Abs (0-0.5A) ±0.0025 Abs (0.5-1A)		
Photometric Repeatability	≤0.15%T 0.0005Abs (0-0.5A) 0.001Abs (0.5-1A)		
Baseline flatness	≤±0.001 A(200-1090nm)		
Baseline Stability	±0.0004 Abs		
Slew speed	24000 nm/min		
Noise	0.00003 A (0 Abs, 500nm)		
Drifting	≤0.0005 Abs/h (250nm and 500nm after 2h warm up)		
COM Port	USB		
Light Source	Hamamatsu D2 lamp, Osram halogen tungsten		
lampPower	Ac220V±22V 50Hz±1Hz, 200W		
Packaging Size	740mm x 630mm x 450mm, 35kg		
System dimension	59cm x 46	ocm x 25cm	
Scan Ordinate Modes	Absorbance, % transmittance, % Reflectance, Kubelka-Munk, log (1/R), log (Abs), Abs*Factor, Intensity		
Resolution	> 1.6 (peak-to-valley ratio; toluene in hexane)		
Data Intervals	10, 5, 2, 1.0, 0.5, 0.2, 0.1 nm		
Display Range	-0.3 to 4.0A		
Solutions (EP/BP/TGA)	±0.010A (60 mg/L K2Cr2O7)		
Room Temperature		15-37°C	
Humidity	80%		