

UV- TS 2080Plus

Spectrophotometer Double Beam



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

The UV-TS 2080Plus spectrophotometer double beam applies a new optical bench, with 5-speed adjustable bandwidth 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. The instrument can perform following operations, including photometry, automatic scanning spectral measurement, quantitative analysis, dynamic analysis, and multi-wavelength measurement.

►► 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 capabilities, 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

Model	TS 2080Plus
Photometry	Double Beam
Monochromator Type	Czerny-Turner
Focal Length	200mm
Grating	Holographic grating with 1200 lines/mm
Detector	Dual Silicon Photodiodes
Spectrum Bandwidth	0.2nm, 0.5nm, 1nm, 2nm, 4nm, 5nm
Wavelength Setting	8-inch color touch-screen
Wavelength Display	0.1nm
Wavelength Range	190-1100nm
Wavelength Accuracy	±0.1nm (at 656.1 nm)
Wavelength Reproducibility	±0.05nm
Scanning Speed	Fast-Medium-Slow, upto 10000 nm/min
Stray Light	≤0.02%T(at 220nm NaI, 340nm NaNo ₂), 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 Reproducibility	≤0.15%T 0.0005Abs (0-0.5A) 0.0002Abs (0.5-1A)
Baseline flatness	≤±0.0001 A(190-1100nm)
Baseline Stability	±0.0001 Abs/h at 500nm
Photometric Stability	±0.00015 Abs/h at 500nm
Baseline Correction	Automatic
Slew speed	24000 nm/min
Noise	0.000016 A (0 Abs, 500nm)
Drifting	≤0.0005 Abs/h (250 nm and 500nm after 2h warm up)
COM Port	USB
Light Source	Hamamatsu D2 lamp, Osram halogen tungsten lamp
Power	Ac220V±22V 50Hz±1Hz, 200W
Packaging Size	740mm x 630mm x 450mm, 35kg
System dimension	59cm x 46cm x 25cm
Scan Ordinate Modes	Absorbance, % transmittance, % Reflectance, Kubelka-Munk, log (1/R), log (Abs), Abs*Factor, Intensity
Resolution	0.2nm
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 K ₂ Cr ₂ O ₇)
Room Temperature	15-37°C
Humidity	80%

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



TM

Analytical
Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

Reach us @



Analytical®

Technologies Limited

HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W. www.analyticalgroup.net
www.hplctechnologies.com
www.multiplelabs.com
www.ais-india.com

Sales & Support Offices:
across the country :
Distributors & Channel
partners World Wide