

# 2080-TS

UV-Vis Spectrophotometer with Xenon lamp



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

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

## ►► Product Description:

The 2080 TS UV-Vis spectrophotometer adopts Xenon flash lamp as light source, which can be used for 7 years. The latest ARM system and long optical system ensure high accuracy and good stability of the instrument. They are the best choice of high quality spectrophotometer.

## ►► Feature

- Imported Xenon lamp makes the instrument more fast & convenient. it can be operated immediately after starting without preheating.
- the in-house massive memory is capable of saving up to 1024M for test data & working curves. It supports USB storage. The USB port can be used for data transfer, which is easily exported to Excel for further processing, analysis and storage.
- Powerful functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum scan, DNA\Protein test, multi-wavelength test, etc
- Large room for samples can hold cuvettes of various specifications.
- Auto 8-cell holder is optional.
- 21 CFR Management software is optional.
- Wavelength Display: 0.2 nm increment

## ►► Specifications:

Model	2080-TS
Optical System	Czerny-Turner mount, Double beam monochromator with Holographic grating with 1200 lines/mm
Wavelength Range	190-1100 nm
Spectral Bandwidth	1.0 nm
Wavelength Accuracy	±0.03nm
Wavelength Repeatability	±0.03nm(546.11nm mercury line)
Resolution	1.5 nm
Photometric Accuracy	±0.0002 Abs (0 to 0.5 Abs), ±0.0004 Abs (0.5 to 1 Abs) 1A: ±0.006A 2A: ±0.010A (Measured at 440nm using calibrated neutral density filters traceable to NIST)
Photometric Repeatability	±0.0002 Abs (0 to 1.0 Abs)
Photometric Range	~4 to +4 Abs, at 0-400%T
Stray Light	<1% at 198nm(KCL) ≤0.005%T, at 220nm(NaI) ≤0.004%T, at 340nm(NaNO <sub>2</sub> ) ≤0.008%T, at 370nm
Drift	<0.0008A/hr
Baseline Correction	Automatic
Measuring Principle	dual silicon detector
Data collection rate	80Hz
Calibration	internal

Noise	<±0.00002Abs
Stability	±0.0004A/h@500nm
Baseline Flatness	±0.0001 A (200-800nm)
Work mode	Absorbance, % Transmittance, % Reflectance, Kubelka-Munk, log (1/R), log (Abs), Abs*Factor, Intensity, Kinetic
Data intervals	0.1, 0.5, 1, 2, 5, 10
Operational mode	scan, fixed, quantitative, rabskating
Absorbance ratio	2.04
Scanning speed	<1-6000nm/min
Wavelength setting	0.2 nm
Display	10.1" color touch LCD
Light Source	Xenon flash lamp with 7 Year Warranty
Detector	Dual Silicon Photodiode
Output	USB/RS232, LAN Port
Ambient temperature	5°C to 40°C
Ambient humidity	25 to 85%
Power	AC 220V/50Hz or AC 110V/60Hz
Power Consumption	70 watt
Dimension	590 x 475 x 250mm
Net Weight	20kg
Wavelength Slew Rate:	25,000 nm/min
Gross Weight	27kg

## ►► UV SPECTRA TM Control Software:

The Analytical windows based PC application software UV/Vis analyst takes the best features of the standalone version plus more powerful data processing. Expanded data collection and storage capability. It comes standard with Analytical PC models and is optional to stand alone models.

The PC application software offers: Photometric Mode, Quantitative test (standard curve), Wavelength Scan, Kinetics, DNA/Protein, Multi-Wavelength, System Utility, Time scan, Data Processing

6-Cell turret, operating software with latest configuration, automatic monitor power-off time setting function, Intelligent start function etc. Scale changing, Trace, Statistical calculation, Spectrum overwriting, Peak detection Smoothing, Differentiation, Area calculation, Rate calculating, nucleic acid etc.

File or report output in CSV format Data/measurement condition saving functions, file search function, Wavelength calibration, Lamp usage time monitoring, Sample chamber opening/closing detection, Performance evaluation. Performance evaluation using mercury lamps, Maintenance history storage

## Upgradation:

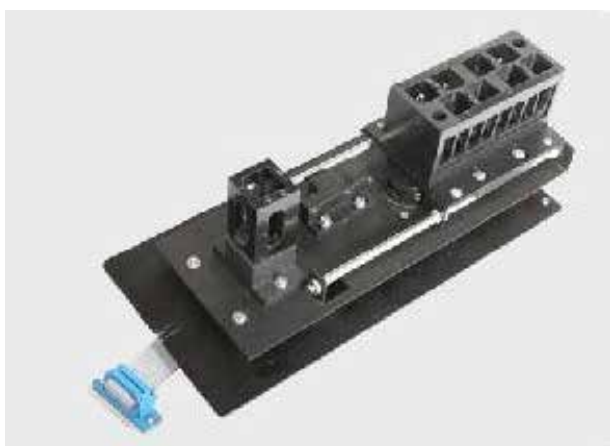
The instrument will be upgradable with integrating sphere attachment in future to measure reflectance.



1 Position 100mm Path Length  
Cell Holder with reference cell  
holder, LS1701



5 Positions 100mm Path Length Cell Holder  
with Motor and reference cell holder  
LS1701-5



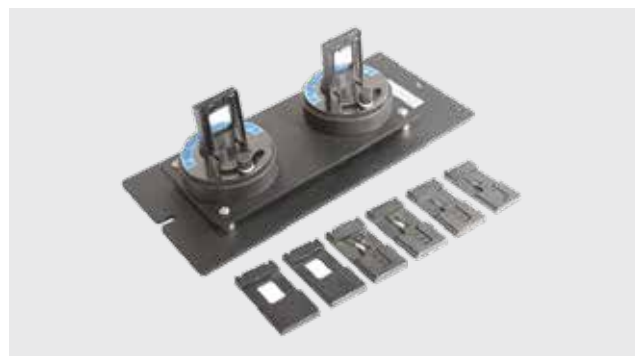
8 Positions 10mm Path length Ce  
ll Holder with Motor and  
reference cell holder,MS1701



Standard and Micro Sample Cell Ho  
lder with reference cell holder,  
MH1701



Solid Sample holde rwith  
reference cell holder, S1701



Adjustable Angle Solid Sample Holder with  
reference cell holder, DS1701

## Regulatory compliances



## Corporate Social Responsibility

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



**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](mailto: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 @



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