

**Dual Beam
UV-VIS 3100XE
Spectrophotometer
(XENON LAMP)**



- **Photometry measurement**
Measure absorbance and transmission at any defined wavelength.
- **Multi - wavelength Measurement**
Measure absorbance and transmission at multiple wavelength and analyze the results by built-in methods
- **Time scanning**
Determine absorbance at any time interval and defined wavelength.
- **Kinetics**
Determine absorbance at any time interval and defined wavelength. It can be used to monitor real time enzyme reaction and calculate enzyme activity according to the results. The reaction rates of samples can be calculated by setting the interval time.
- **Quantitation**
By measuring reference samples and establish standard curve, to determine unknown samples. Support built-in and customized formulation to establish standard curve.
- **DNA/Protein Determination**
According to the sample type, chose suitable method to determine DNA,RNA and Protein concentration.
- **wavelength Scanning**
Determine full wave length absorbance and transmission at defined wave length interval, generate and analyze the graph by built-in methods.
- **Customized Methods**
Users can adjust the calculation methods upon own requirement and use it in corresponding determining module.



SPECIFICATIONS

Spectrum	UV-Visible
Spectrum Range	190-1100nm
Type	Dual Beam
Bandwidth	1nm
Lamp	XENON
Detector	Dual Silicon photodiode
User Interface	10-inch color touchscreen
Output	USB, Serial port, Bluetooth (Optional)
Wavelength range	190-1100
Wavelength Accuracy	±0.3 nm
Wavelength repeatability	±0.2 nm
Wavelength resolution	0.1 nm
Photometric range	-4 to 4 A
Photometric accuracy	0.5 A ±0.002A, for 1 A 0.004A
Photometric repeatability	0.5 A ±0.001A, for 1 A +0.002A
Stray light	220 nm < 0.05% With KCL @198 < 1% (2.35 A)
Optional Accessory	Specular Reflection Accessory, Integrating Sphere 60mm / 100mm Automatic 8 Cell Changer, long path cell holder, Peltier Solid Sample holder etc.
Baseline Flatness	± 0.002A
Scan speed	3000 nm/min
Slew speed	7500 nm/min
Monochromator Type	Reflexive, holographic, Czerny-turner, Scanning Monochromator
Capacity	up to 4 cell holder
Power	100 ~ 240 V AC, 50/60 Hz, 100 W
Dimension	456*360*185
Weight	10.7 kg
Storage	64GB

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