



SUV-1200 Series

"Robust, Versatile, Ready for Every Sample"



Spectrophotometer UV-Vis

SUV-1200 Series

1. Powerful functions like Photometric measurement, Kinetics, Spectrum Scan, DNA/Protein test, Multi-wavelength test, etc.
2. In-house massive memory is capable of saving up to 1024M for test data & working curves.
3. Supports USB Storage, The USB port can be used for data transfer, which is easily exported to Excel for further processing, analysis and storage.
4. Large sample chamber can accommodate 5-100mm cuvettes of all kinds. Provide at Extra cost.
5. Extensive accessories are optional, such as auto 8-cell holder, peltier/sipper system, 21 CFR compliant software, etc.
6. Auto Wavelength Setting.
7. Tungsten/Deuterium Lamp can be Turned ON/OFF Individually to Extend Lifetime.
8. On-Screen Standard Kinetic Curve Display.

Specifications

Model	SUV-1201	SUV-1202	SUV-1205
Optical System	Double Beam		
Wavelength Range	190-1100nm		
Spectral Bandwidth	1nm	2nm	0.5,1,2,4,5nm
Wavelength Accuracy	$\pm 0.1\text{nm}$ (at D2 peak 656.1 nm) $\pm 0.3\text{ nm}$ (whole range)		
Scan speed	approx.3000 nm/min (max.)		
Wavelength Reproducibility	$\pm 0.1\text{ nm}$		
Photometric Accuracy	$\pm 0.2\%T(0\sim 100\%T)$, $\pm 0.002\text{Abs}(0-0.5\text{Abs})$, $\pm 0.004\text{Abs}$ (0.5-1Abs)		
Photometric Reproducibility	$\pm 0.15\%T(0\sim 100\%T)$, $\pm 0.001\text{Abs}(0-0.5\text{Abs})$, $\pm 0.002\text{Abs}$ (0.5-1Abs)		
Transmittance Range	0-200%T		
Absorbance Range	-0.3 to 3Abs		
Stray Light	$\leq 0.02\%T$ at 220 nm NaI, 340 nm NaNO ₂ $\leq 1\%T$ at 198 nm KCl		
Baseline Stability	$\pm 0.0003\text{Abs/h}$ at 500nm		
Baseline Flatness	$\pm 0.0006\text{Abs}$		
Noise (at 500 nm)	$\leq 0.0001A$ (Peak to Peak) $\leq 0.00005A$ (RMS)		
Work mode	%T, Abs, Conc., E		
Scanning speed	Fast, Mid, Slow		
Wavelength setting	Auto		
Display	10.1" TFT Colored Capacitive Touch Screen		
Light source	Deuterium & Tungsten lamp		
Detector	2 Silicon Photodiodes		
PC connected and data output	USB port/RS232		
Power	AC 110-230V/50-60		
Dimension	590x475x250mm		760X560X280mm
Net Weight	20kg		28kg
Shipping Size	770x630x340mm		880x690x520mm
Gross Weight	27kg		47kg

Specifications

Model	SUV-1201 Xe	SUV-1202 Xe
Optical System	Double Beam	
Wavelength Range	190-1100nm	
Spectral Bandwidth	1nm	2nm
Wavelength Accuracy	$\pm 0.1\text{nm}$ (at D2 peak 656.1 nm) $\pm 0.3\text{ nm}$ (whole range)	
Scan speed	approx.3000 nm/min (max.)	
Wavelength Reproducibility	$\pm 0.1\text{ nm}$	
Photometric Accuracy	$\pm 0.2\%T(0\sim 100\%T)$, $\pm 0.002\text{Abs}(0-0.5\text{Abs})$, $\pm 0.004\text{Abs}$ (0.5-1Abs)	
Photometric Reproducibility	$\pm 0.15\%T(0\sim 100\%T)$, $\pm 0.001\text{Abs}(0-0.5\text{Abs})$, $\pm 0.002\text{Abs}$ (0.5-1Abs)	
Transmittance Range	0-200%T	
Absorbance Range	-0.3 to 3Abs	
Stray Light	$\leq 0.02\%T$ at 220 nm NaI, 340 nm NaNO ₂ $\leq 1\%T$ at 198 nm KCl	
Baseline Stability	$\pm 0.0003\text{Abs/h}$ at 500nm	
Baseline Flatness	$\pm 0.0006\text{Abs}$	
Noise (at 500 nm)	$\leq 0.0001A$ (Peak to Peak) $\leq 0.00005A$ (RMS)	
Work mode	%T, Abs, Conc., E	
Scanning speed	Fast, Mid, Slow	
Wavelength setting	Auto	
Display	10.1" TFT Colored Capacitive Touch Screen	
Light source	Xenon lamp	
Detector	2 Silicon Photodiodes	
PC connected and data output	USB port/RS232	
Power	AC 110-230V/50-60	
Dimension	590x475x250mm	
Net Weight	20kg	
Shipping Size	770x630x340mm	
Gross Weight	27kg	

Application



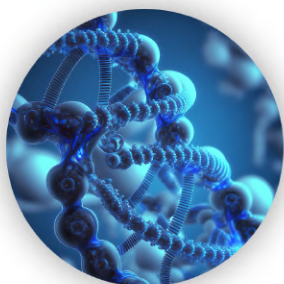
Pharmaceuticals

Used to determine the concentration of active pharmaceutical ingredients (APIs) in pharmaceutical preparations such as tablets, capsules, and solutions, purity testing, dissolution testing and drug stability studies.



Environmental Science

UV-Vis spectrophotometry is widely used to analyze pollutants in water, such as nitrates, nitrites, phosphates, heavy metals, detection of organic pollutants, and wastewater treatment monitoring.



Biochemistry

UV-Vis spectrophotometry is commonly used to determine protein concentration by measuring absorbance at 280 nm, where aromatic amino acids (like tryptophan and tyrosine) absorb UV light, nucleic acid quantification, and study of biomolecular interactions.



Food and Beverages

UV-Vis spectrophotometry is used to analyze colorants (both natural and synthetic) in food and beverages, measurement of antioxidants and nutrients, or quantification of sugars and organic acids.



Clinical Diagnostics

UV-Vis spectrophotometry is widely used to measure concentrations of biochemical components in blood and serum, such as glucose, cholesterol, urea, creatinine, bilirubin, urine analysis and more.



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