

# DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER



# DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER

Double beam specs measures the ratio of light intensities on two separate light paths - the reference standard and the sample. It can perform photometric measurement, quantitative measurement, spectrum scanning, DNA/Protein analysis.

Used in Most suitable for quantitative determination assays and toxicological assays in environmental, industrial, pharmaceutical fields..

Also known as Vis Spectrometer, UV-Vis Spectrometer, Spectrometers, visible spectrophotometer.

## SD11 DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER

Wavelength range: 190-1100nm

Spectral Bandwidth: 1.8nm and 2nm

Detector: Silicon Photodiode

Stray Light: Stray light is achieved at  $\leq 0.03\%T$

Light source: Deuterium and tungsten halogen lamp

LCD display

Automatic wavelength setting

Double beam optical system having suspended posture

Sample size: A wide range of standard cuvettes to be use based on the sensitivity or sample volume requirements.

Equipped with scanning software

High, medium and low scanning speed

Sophisticated and simplified sample analysis software: The sample analysis software provides the scanning, fixed wavelength analysis, quantitative analysis, data collection, storage, export, and reporting. With additional feature of an easy access USB port available in the unit that enables results to be stored directly to a USB memory stick for easy transfer of data.

Strengthening and thickening of bottom plate ensures elimination of vibrational or transformational impact on the optical system

Optical system having high quality structural design with technological requirements and raw materials

24-bit high speed and high precision A/D conversion technique improves sensitivity

Provides Photometric, Quantitative, Kinetics, Wavelength scan, Multi-wavelength and DNA/Protein Test functions



## SPECIFICATIONS

Model	SPE21-1100	SPE22-1100
Wavelength Range	190-1100 nm	
Wavelength Accuracy	$\pm 0.1$ nm(D2 656.1NM), $\pm 0.3$ nm	
Wavelength Reproducibility	$\leq 0.1\%T$	
Wavelength Repeatability	$\leq 0.1$ nm	
Spectral Bandwidth	1.8 nm	2 nm
Photometric Range	0-200%T, -0.3--3A, 0-9999C	
Photometric Accuracy	$\pm 0.2\%T$	

Photometric Repeatability	≤0.15%T
Stability	±0.0004 A/h(500nm)
Baseline Flatness	±0.001A
Stray Light	≤0.03%T
Light Source	Deuterium&Tungsten Halogen Lamp
Detector	Silicon Photodiode
Software	PC Software
Gross Dimension (W/D/H)	625x430x210 mm
Display	LCD
Noise	±0.0005A
Weight (Net/Gross)	28 kg
Power	300 W
Power Supply	220V 50Hz/110V60Hz

## ACCESSORIES

Accessory Code	Name	Description	Unit
LS53371	Glass cuvette (10 mm)		4 pcs
LS53383	Quartz cuvette (10 mm)		2 pcs
LS53395	Dustproof cover		1 pc
LS53419	Software CD		1 pc
LS53431	USB Cable		1 pc
LS53443	Power cord		1 pc
LS53455	Softdog		1 pc

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Volume	Unit
LS53199	Single Position Cell Holder	10 mm		
LS53211	Single Position Water Jacketed Ambient Cell Holder	10 mm		
LS53223	4-Position Cell Holder	10 mm		
LS53235	4-Position Cell Holder	50 mm		
LS53247	4-Position Cell Holder	100 mm		
LS53259	8-Position Cell Holder	10 mm		
LS53271	Adjustable Cell Holder for Micro Cuvettes			
LS53283	Transparent Film Holder			
LS53295	Tube Holder			
LS53307	Thermostatic Controller			
LS53319	Auto Sampler			
LS53331	Auto Thermostatic Sampler			
LS53343	Micro Printer			
LS53355	Tungsten Lamp 6V, 10W (PH)			
LS53367	Tungsten Lamp 12V, 20W (PH)			
LS53379	Tungsten Lamp 12V, 20W (OSRAM)			
LS53391	D2 Lamp A510YXU Milasi			
LS53403	Glass Cuvette	5x10x45	1.7 ml	Set (4 pcs)
LS53415	Glass Cuvette	10x10x45	3.5 ml	Set (4 pcs)

LS53427	Glass Cuvette	20x10x45	7 ml	Set (4 pcs)
LS53439	Glass Cuvette	30x10x45	10.5 ml	Set (4 pcs)
LS53451	Glass Cuvette	40x10x45	14 ml	Set (4 pcs)
LS53463	Glass Cuvette	50x10x45	17.5 ml	Set (4 pcs)
LS53475	Glass Cuvette	100x10x45	35 ml	Set (4 pcs)
LS53487	Quartz Cuvette	5x10x45	1.7 ml	Set (2 pcs)
LS53499	Quartz Cuvette	10x10x45	3.5 ml	Set (2 pcs)
LS53511	Quartz Cuvette	20x10x45	7 ml	Set (2 pcs)
LS53523	Quartz Cuvette	30x10x45	10.5 ml	Set (2 pcs)
LS53535	Quartz Cuvette	40x10x45	14 ml	Set (2 pcs)
LS53547	Quartz Cuvette	50x10x45	17.5 ml	Set (2 pcs)
LS53559	Quartz Cuvette	100x10x45	35 ml	Set (2 pcs)
LS53571	Micro Quartz Cuvette	10x2x2.5	50 µl	Set (2 pcs)
LS53583	Micro Quartz Cuvette	10x2x5	100 µl	Set (2 pcs)
LS53595	Micro Quartz Cuvette	10x2x10	200 µl	Set (2 pcs)
LS53607	Micro Quartz Cuvette	10x2x25	500 µl	Set (2 pcs)
LS53619	Micro Quartz Cuvette	10x2x45	700 µl	Set (2 pcs)
LS55199	Micro Quartz Cuvette	10x2x45		Set (2 pcs)



SPE21-1100



SPE22-1100

# Centrifugen

**Centrifugen**

82 Wendell Avenue, STE 100, Pittsfield, MA, 01201, USA

Email: [info@centrifugen.com](mailto:info@centrifugen.com) | Website: [centrifugen.com](http://centrifugen.com)