# SINGLE BEAM UV VISIBLE SPECTROPHOTOMETER



## SINGLE BEAM UV VISIBLE SPECTROPHOTOMETER

Single beam specs measure absolute light intensity. 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.

### SPE11-0320 SINGLE BEAM VISIBLE SPECTROPHOTOMETER

Wavelength range: 320nm-1100nm

Optical System: 1200 lines/mm line Czerny Turner Diffraction Grating monochromator

ensures high resolution, high photometric accuracy and low stray light

Bandwidth: 2nm

Detector: Silicon Photodiode

Measurement Range with ultra-low Stray Light With its ultra-low stray light ≤0.05%Tis achieved on wavelength range of 320 - 1100 nm

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

Sophisticated and simplified sample analysis software: The Sample analysis software deliver 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, which enables results to be stored directly to a USB memory stick for easy transfer of data.

Suspended posture optical system

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

Can store up to 200 groups of data and 200 standard curves

Automatic wavelength setting

Automatic wavelength calibration and automatic deviation repair

USB port and parallel port

Inclusive of standard PC software



### **SPECIFICATIONS**

Model	SPE11-0320
Wavelength Range	320-1100 nm
Wavelength Accuracy	±0.5 nm
Wavelength Reproducibility	≤0.2 nm
Wavelength Repeatability	≤0.2 nm
Spectral Bandwidth	3 nm
Photometric Range	0.200 %T, -0.3-3 A, 0-9999 C
Photometric Accuracy	±0.3 %T
Photometric Repeatability	≤0.15 %T
Stability	±0.0001 A/hr at 500 nm
Baseline Flatness	±0.0001 A/h
Stray Light	≤0.05 %T
Light Source	Tungsten-Halogen Lamp
Photometric Mode	≤0.05 %T

Software	USB	
Gross Dimension (W/D/H)	460x380x180 mm	
Display	LCD (228x64 pixel)	
Noise	≤0.0005A	
Weight (Net/Gross)	15 kg	
Power	300 W	
Power Supply	AC 220V/50Hz or AC110/60Hz	

### **ACCESSORIES**

Accessory Code	Name	Description	Unit
LS53371	Glass cuvette (10 mm)		4 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
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		
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)			
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 ml	Set (2 pcs)
LS53583	Micro Quartz Cuvette	10x2x5	100 μΙ	Set (2 pcs)
LS53595	Micro Quartz Cuvette	10x2x10	200 μΙ	Set (2 pcs)
LS53607	Micro Quartz Cuvette	10x2x25	500 μΙ	Set (2 pcs)
LS53619	Micro Quartz Cuvette	10x2x45	700 μΙ	Set (2 pcs)
LS53631	Quartz Flow Cuvette			Set (2 pcs)
LS55199	Micro Quartz Cuvette	10x2x45		Set (2 pcs)

### **SS11** SINGLE BEAM UV VISIBLE SPECTROPHOTOMETER

Wavelength range: 190nm-1100nm

Bandwidth: 2nm

Detector: Silicon Photodiode

Stray Light: It is achieved in range of ≤0.05 %T Light source: Deuterium and tungsten halogen lamp

A wide range of standard cuvettes can be used based on the sensitivity or sample

volume requirements

The sample analysis software provides the scanning, fixed wavelength analysis, quantitative analysis, data collection, storage, export, and reporting.

USB port and parallel port

Inclusive of standard PC software

With additional feature of an easy access USB port available in the unit which enables results to be stored directly to a USB memory stick for easy transfer of data. It can store up to 200 results.

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

Enables building of calibration curves and further implementation of associated tests

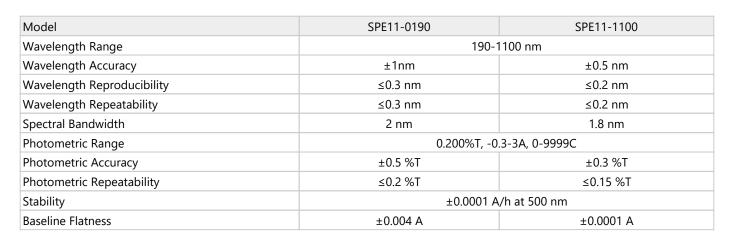
Formation of multi-point standard curve using calibration curve method enables measurement of unknown sample concentration

Implements sample measurement after addition of coefficient of curvilinear equation using coefficient method

Automatic wavelength calibration and automatic deviation repair

Easy changing of deuterium and tungsten lamp excluding the need for debugging







Stray Light	≤0	≤0.05 %T			
Light Source	Deuterium Lamp and	Deuterium Lamp and Tungsten-Halogen Lamp			
Gross Dimension (W/D/H)	420x300x160 mm	460x380x180mm			
Display	128x64 Dots LCD	LCD (320x240 pixel)			
Noise	±0.004 A	±0.0005A			
Weight (Net/Gross)	13 kg	20 kg			
Power	3	300 W			
Power Supply	AC 220V/50H	AC 220V/50Hz or AC110/60Hz			

### **ACCESSORIES**

Accessory Code	Name	Description	Unit	For Models
LS53371	Glass cuvette (10 mm)		4 pcs	All
LS53383	Quartz cuvette (10 mm)		2 pcs	All
LS53395	Dustproof cover		1 pc	All
LS53407	Power Cord (US/EU)		2pcs	SPE11-0190
LS53419	Software CD		1 pc	All
LS53431	USB Cable		1 pc	All
LS53443	Power cord		1 pc	SPE11-1100
LS53455	Softdog		1 pc	SPE11-1100

### **OPTIONAL ACCESSORIES**

Accessory Code	Name	Description	Volume	Unit	For Models
LS53211	Single Position Water Jacketed Ambient Cell Holder	10 mm			All
LS53223	4-Position Cell Holder	10 mm			All
LS53235	4-Position Cell Holder	50 mm			All
LS53247	4-Position Cell Holder	100 mm			All
LS53271	Adjustable Cell Holder for Micro Cuvettes				All
LS53283	Transparent Film Holder				All
LS53295	Tube Holder				All
LS53307	Thermostatic Controller				All
LS53319	Auto Sampler				All
LS53331	Auto Thermostatic Sampler				All
LS53343	Micro Printer				All
LS53355	Tungsten Lamp 6V, 10W (PH)				All
LS53367	Tungsten Lamp 12V, 20W (PH)				All
LS53379	Tungsten Lamp 12V, 20W (OSRAM)				All
LS53391	D2 Lamp A510YXU Milasi				All
LS53403	Glass Cuvette	5x10x45	1.7 ml	Set (4 pcs)	All
LS53415	Glass Cuvette	10x10x45	3.5 ml	Set (4 pcs)	All
LS53427	Glass Cuvette	20x10x45	7 ml	Set (4 pcs)	All
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LS53487	Quartz Cuvette	5x10x45	1.7 ml	Set (2 pcs)	All

LS53499	Quartz Cuvette	10x10x45	3.5 ml	Set (2 pcs)	All
LS53511	Quartz Cuvette	20x10x45	7 ml	Set (2 pcs)	All
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LS53583	Micro Quartz Cuvette	10x2x5	100 μΙ	Set (2 pcs)	All
LS53595	Micro Quartz Cuvette	10x2x10	200 μΙ	Set (2 pcs)	All
LS53607	Micro Quartz Cuvette	10x2x25	500 μΙ	Set (2 pcs)	All
LS53619	Micro Quartz Cuvette	10x2x45	700 μΙ	Set (2 pcs)	All
LS53631	Quartz Flow Cuvette			Set (2 pcs)	All
LS55199	Micro Quartz Cuvette	10x2x45		Set (2 pcs)	All
LS53259	8-Position Cell Holder	10 mm			SPE11-1100



SPE11-0190



SPE11-1100

# Centrifugen

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