

UV VISIBLE SPECTROPHOTOMETER





SCANNING UV VISIBLE SPECTROPHOTOMETER LDSS-100 SERIES

Labocon Scanning double beam UV Visible spectrophotometers LDSS-100 series offers measurement range of 190-1100nm at bandwidth of 1.8nm/4nm; which provides high accuracy, reproducibility and high throughput at each run.

The LDSS-100 Series suits for

- For measurement of DNA, RNA and oligonucleotide and Protein
- Proteins can be quantitated by BCA, Biuret, Bradford, Direct UV and Lowry
- The OD of bacterial cell culture solutions can be measured to optimize harvest times
- For the determination of metal and organic non-metal analytes in water
- Ideal to be use in petrochemical labs as they are solvent resistant such as Naphthalene in aviation

Features

- Wavelength range
 - 190-1100nm
- Bandwidth:
 - 1.8nm/4nm
- **Optical System**
 - Double beam optical system
 - Czerny-Turner diffraction monochromator having 1200 lines/mm grating
- Detector
 - Silicon Photodiode
- Wide measurement range with ultra-low Stray Light achieved at highest Resolution
 - With its ultra-low stray light (≤0.05 %T (220nm, 340nm)) is achieved at wavelength range of 190 - 1100 nm
 - Multi-wavelength pinpoint test for simultaneous testing of up to 30 wavelengths
- Flexibility with various sample size
 - A wide range of standard cuvettes can be use 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.

Additional Feature

- USB data interface with online PC software ensures powerful function and data processing capabilities
- Automatic 4-position cell holder and optional 7-position or 16-position cell holder
- Variety of optional accessories suitable for different applications including reflection sample holder, solid sample holder, water bath and auto sampler

Application

Labocon LDSS-100 Series of scanning double beam UV Visible Spectrophotometer is widely used in clinical, pharmaceutical, veterinary, environmental and general quality control laboratories.





Model	LDSS-101	LDSS-101PC	
Wavelength Range	190-1100nm		
Wavelength Accuracy	±0.1nm (656.1nm D2); ±0.5nm (whole wavelength range)		
Wavelength Repeatability	±0.15	5nm	
Spectral Resolution	O.1ı	nm	
Spectral Bandwidth	1.8nm	/4nm	
Stability	±0.001A/h a	t 500nm, 0A	
Baseline Flatness	±0.00	015A	
Photometric Range	0-200 %T; -3-3/	\; -9999-9999C	
Photometric Accuracy	±0.002A (0-0.5A); ±0.004A (0.5-1A); ±0.008A (1-2A); ±0.3% (0-100%T)		
Photometric Repeatability	±0.002A (0-0.5A); ±0.004A (0.5-1A); ±0.008A (1-2A); ±0.15% (0-100%T)		
Stray Light	≤0.05 %T (220	Onm, 340nm)	
Display	LCD		
Software	None	PC with on-line software	
Overall Dimension	470x390x225mm		
Weight	20 kg		
Catalog No.	9153175164	9153176164	



SCANNING UV VISIBLE SPECTROPHOTOMETER LSS-100 SERIES

Labocon Single beam scanning UV Visible spectrophotometers LSS-100 Series offers measurement range of 190-1100nm at fixed/variable bandwidth of 1.0, 1.8,2 and 4nm; which provides high accuracy, reproducibility and high throughput at each run.

The LSS-100 Series suits for

- For measurement of DNA, RNA and oligonucleotide and Protein
- Proteins can be quantitated by BCA, Biuret, Bradford, Direct UV and Lowry
- The OD of bacterial cell culture solutions can be measured to optimize harvest times
- For the determination of metal and organic non-metal analytes in water
- Ideal to be use in petrochemical labs as they are solvent resistant such as Naphthalene in aviation

Features

Wavelength range

• 190-1100nm

Bandwidth

1.0, 1.8,2 and 4nm

Optical System

Single beam optical system with 1200 lines/mm grating

Wide Measurement Range with Ultra-low Stray Light achieved at highest Resolution

 With its ultra-low stray light (≤0.05 %T (220nm, 360nm)) is achieved at max scan speed of around 3000nm/min

Flexibility with various sample size

- A wide range of standard cuvettes can be use based on the sensitivity or sample volume requirements.
- Large sample compartment to accommodate 5-100mm cuvettes with holders

Sophisticated and simplified Sample analysis software

 The optional 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.





Additional Feature

10mm standard cell holder

Application

Labocon UV Visible Scanning Spectrophotometer LSS-100 Series is widely used in clinical, pharmaceutical, veterinary, environmental and general quality control laboratories.

Model	LSS-101	LSS-102	LSS-103	LSS-104
Wavelength Range		190-11	00nm	
Wavelength Accuracy	±0.5	ōnm	±0.3	3nm
Wavelength Repeatability	0.3	nm	0.2	nm
Spectral Bandwidth	4nm	2nm	1.8nm	1nm
Photometric Range		0.200%T,	-0.3-3.0A	
Photometric Accuracy		≤±0.5%T or ±0	0.003A at 1A	
Stability	±0.002A/h at 500nm			
Stray Light	0.05%T at 220,360nm			
Light Source	Tungsten Halogen Lamp and Deuterium Lamp			
Baseline Flatness	±0.002A			
Display	LCD			
Overall Dimension	480x360x160mm 600x450x200mm		x200mm	
Power Supply	220V 60Hz			
Weight	14 kg 20 kg		kg	
Catalog No.	9153107346	9153108346	9153109346	9153110346



SCANNING UV VISIBLE SPECTROPHOTOMETER LSSPC-100 SERIES

Labocon Single beam scanning UV Visible spectrophotometers LSSPC-100 Series offers measurement range of 190-1100nm at fixed/variable bandwidth of 1.0, 1.8,2 and 4nm; which provides high accuracy, reproducibility and high throughput at each run.

The LSSPC-100 Series suits for

- For measurement of DNA, RNA and oligonucleotide and Protein
- Proteins can be quantitated by BCA, Biuret, Bradford, Direct UV and Lowry
- The OD of bacterial cell culture solutions can be measured to optimize harvest times
- For the determination of metal and organic non-metal analytes in water
- Ideal to be use in petrochemical labs as they are solvent resistant such as Naphthalene in aviation

Features

Wavelength range

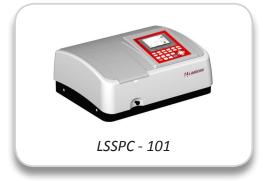
• 190-1100nm

Bandwidth

1.0, 1.8,2 and 4nm

Optical System

Single beam optical system with 1200 lines/mm grating



Wide Measurement Range with Ultra-low Stray Light achieved at highest Resolution

 Ultra-low stray light (≤0.05 %T (220nm, 360nm)) is achieved at max scan speed of around 3000nm/min

Flexibility with various sample size

- A wide range of standard cuvettes can be use based on the sensitivity or sample volume requirements.
- Large sample compartment to accommodate 5-100mm cuvettes with holders

Sophisticated and simplified Sample analysis software

 The optional 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.



Additional Feature

- USB data interface with online PC software ensures powerful function and data processing capabilities
- 10mm standard cell holder

Application

Labocon UV Visible Single beam scanning Spectrophotometer LSSPC-100 Series is widely used in clinical, pharmaceutical, veterinary, environmental and general quality control laboratories.

Model	LSSPC-101	LSSPC-102	LSSPC-103	LSSPC-104
Wavelength Range		190-110	00nm	
Wavelength Accuracy	±0.5	ōnm	±0.3nm	
Wavelength Repeatability	0.3	nm	0.2	nm
Spectral Bandwidth	4nm	2nm	1.8nm	1nm
Photometric Range		0.200%T,	-0.3-3.0A	
Photometric Accuracy		≤±0.5%T or ±0	0.003A at 1A	
Stability	±0.002A/h at 500nm			
Stray Light	0.05%T at 220,360nm			
Light Source	Tungsten Halogen Lamp and Deuterium Lamp			
Baseline Flatness	±0.002A			
Display	LCD			
Overall Dimension	480x360x160mm 600x450x200mm		x200mm	
Power Supply	220V 60Hz			
Weight	14 kg 20 kg		kg	
Catalog No.	9153111346	9153112346	9153113346	9153114346



SINGLE BEAM UV VISIBLE SPECTROPHOTOMETER LUVS-100 SERIES

Labocon Single Beam UV Visible spectrophotometer LUVS-100 series offers the measurement range of 200-1100nm at band width of 2nm and 4nm; these systems provide the high accuracy, reproducibility and high throughput at each run.

The LUVS-100 range produces the photometric range of -0.3 to 3 A; 0-200 %T and photometric accuracy of ±0.5%T (0-100%T); which is ideally suitable for quantitative determination of different assays in nucleic acid, proteins, toxicological assays and optical density measurement.

These systems are best suitable for following application:

- For measurement of DNA, RNA and oligonucleotide and Protein
- Proteins can be quantitated by BCA, Biuret, Bradford, Direct UV and Lowry
- The OD of bacterial cell culture solutions can be measured to optimize harvest times
- For the determination of metal and organic non-metal analytes in water
- Ideal to be use in petrochemical labs as they are solvent resistant such as Naphthalene in aviation

Features

Wavelength range

200-1100nm

Spectral Bandwidth

2nm and 4nm

Stray Light

Stray light is achieved in range of ≤0.2% -≤0.5%T at 220nm and 340nm

Light source

Deuterium and tungsten halogen lamp

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 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 which enables results to be stored directly to a USB memory stick for easy transfer of data. It can store up to 500 results.



Additional Features

For Model LUVS-101 and LUVS-102:

- Microprocessor controlled technology
- Uniquely designed optical system with holographic grating and receiver ensures excellent performance
- 1200 lines/mm holographic grating
- Manual wavelength setting
- Easy to operate and allows scalable and upgradable scanning
- Transmittance and absorbance measurement of samples at specified wavelength
- Quantitative analysis of samples and provides automatically built standard curve
- Can save 200 standard curve and 500 groups of data
- · Adopts stand-alone operation with linear regression equation measurement
- Latest processing technology enables convenient operation
- USB data port
- Built-in printer and anti-controlled PC software (optional)





Model	LUVS-101	LUVS-102
Wavelength Range	200-1100nm	
Wavelength Accuracy	±1r	nm
Wavelength Repeatability	±0.5	ōnm
Spectral Bandwidth	2nm,	4nm
Stability	±0.002 A/hr. a	at 500nm, 0 A
Photometric Range	-0.3 to 3 A; 0-200 %	ζТ; -9999 to 9999 C
Photometric Accuracy	±0.5%T (0	D-100%T)
Photometric Repeatability	±0.2%T (0-100%T)	
Monochromator	Littrow Diffraction Monochromator	
Stray Light	≤0.2 %T (220nm, 340nm)	
Light Source	Deuterium Lamp and Tungsten-Halogen Lamp	
Display	LC	CD .
Overall Dimension	470x380x200mm	
Power	100W	
Power Supply	90-230V	
Weight (Net/Gross)	12/13.5 kg	11.5/13 kg
Catalog No.	9153161164	9153162164



SINGLE BEAM UV VISIBLE SPECTROPHOTOMETER -LUVS-200 SERIES

Labocon Single Beam UV Visible spectrophotometer LUVS-200 range offers the measurement range of 190-1100nm at band width of 2nm; these systems provide the high accuracy, reproducibility and high throughput at each run.

The LUVS-200 series produces the photometric range of 0.200%T, -0.3-3A and photometric accuracy of ±0.3 %T; which is ideally suitable for quantitative determination of different assays in nucleic acid, proteins, toxicological assays and optical density measurement.

These systems are best suitable for following application:

- For measurement of DNA, RNA and oligonucleotide and Protein
- Proteins can be quantitated by BCA, Biuret, Bradford, Direct UV and Lowry
- The OD of bacterial cell culture solutions can be measured to optimize harvest times
- For the determination of metal and organic non-metal analytes in water
- Ideal to be use in petrochemical labs as they are solvent resistant such as Naphthalene in aviation

Features

- Wavelength range
 - 190-1100nm
- **Spectral Bandwidth**
 - 2nm
- Detector
 - Silicon Photodiode
- Stray Light
 - Stray light is achieved in range of ≤0.05 %T
- Light source
 - Deuterium and tungsten halogen lamp

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 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 which enables results to be stored directly to a USB memory stick for easy transfer of data. It can store up to 200 results.

Additional Features

- Provides Photometric, Quantitative, Kinetics, Wavelength scan, Multi-wavelength and DNA/Protein Test functions
- USB port and parallel port
- Inclusive of standard PC software

For Model LUVS-201:

- Enables building of calibration curves and further implementation of associated tests
- Can store up to 200 groups of data and 200 standard curves
- 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

For Model LUVS-202:

- Suspended posture optical system
- Strengthening and thickening of bottom plate ensures elimination of vibrational or transformational impact on the optical system
- 24-bit high speed and high precision A/D conversion technique improves sensitivity
- Data processing enables easier and convenient user editing
- Adopts synchronous sine institutions, high wavelength accuracy and repeatability
- Automatic wavelength setting
- Equipped with scanning software
- High, medium and low scanning speed



Model	LUVS-201	LUVS-202
Wavelength Range	190-1100nm	
Wavelength Accuracy	±lnm	±O.5nm
Wavelength Repeatability	≤O.3nm	≤0.2nm
Bandwidth	2nm	1.8nm
Stability	±O	.0001A/h at 500nm
Baseline Flatness	±0.004A	±0.0001A
Photometric Range	0.20	0%T, -0.3-3A, 0-9999C
Photometric Accuracy	±0.5 %T	±0.3 %T
Photometric Repeatability	≤0.2 %T	≤0.15 %T
Stray Light	≤0.05 %T	
Light Source	Deuterium & Tungsten Halogen Lamp	
Display		LCD
Detector	9	Silicon Photodiode
Noise	±0.004A	±0.0005A
Overall Dimension	460x380x160mm	460x380x180mm
Power	300 W	
Power Supply	220V 61Hz	220V 62Hz
Weight	13 kg	20 kg
Catalog No.	9153163252	9153164252



SINGLE BEAM UV VISIBLE SPECTROPHOTOMETER -LUVS-300 SERIES

Labocon Single Beam UV Visible spectrophotometer LUVS-300 range offers the measurement range of 190-1100nm at band width of 2nm and 4nm; these systems provide the high accuracy, reproducibility and high throughput at each run.

The LUVS-300 series produces the photometric range of 0-200%T,-0.3-3.0A and photometric accuracy of ±0.5%T or ±0.004A at 1A which is ideally suitable for quantitative determination of different assays in nucleic acid, proteins, toxicological assays and optical density measurement.

These systems are best suitable for following application:

- For measurement of DNA, RNA and oligonucleotide and Protein
- Proteins can be quantitated by BCA, Biuret, Bradford, Direct UV and Lowry
- The OD of bacterial cell culture solutions can be measured to optimize harvest times
- For the determination of metal and organic non-metal analytes in water
- Ideal to be use in petrochemical labs as they are solvent resistant such as Naphthalene in aviation

Features

Wavelength range

• 190-1100nm

Bandwidth

· 2nm and 4nm

Detector

Silicon Photodiode

Stray Light

Stray light is achieved in range of 0.05%-0.2% T at 220,360nm

Light source

Deuterium and tungsten halogen lamp

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 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 which enables results to be stored directly to a USB memory stick for easy transfer of data. It can store up to 200 results.

Model	LUVS-301	LUVS-302	LUVS-303
Wavelength Range	200-1000nm		190-1100nm
Bandwidth	4r	nm	2nm
Wavelength Accuracy	±21	nm	±0.5nm
Wavelength Repeatability	O.8nm	lnm	0.3nm
Stray Light	0.2	2%T	0.05%T at 220,360nm
Photometric Range	0-	200%T, -0.3-3.0A, 0-999	9C
Photometric Accuracy	±0.5%T or ±0.003A at 1A		±0.5%T or ±0.004A at 1A
Stability	±0.002A/h at 500nm -		±0.001A/h at 500nm
Stray Light	O.2%T		0.05%T at 220,360nm
Light Source	Tungsten Halogen and Deuterium Lamp		n Lamp
Display	LCD		
Detector	Silicon Photodiode		-
Overall Dimension	440x387x180mm		470x373x187mm
Power Supply	220V 60Hz		
Weight	14 kg		
Catalog No.	9153101346	9153101346 9153102346	



Model	LUVS-303PC	LUVS-304	LUVS-304PC
Wavelength Range	190-1100nm		
Bandwidth		2nm	
Wavelength Accuracy		±0.5nm	
Wavelength Repeatability		O.3nm	
Stray Light		0.05%T at 220,360nm	
Photometric Range	0-	200%T, -0.3-3.0A, 0-999	9C
Photometric Accuracy		±0.5%T or ±0.004A at 1A	
Stability	±0.001A/h at 500nm		
Stray Light	0.05%T at 220,360nm		
Light Source	Tungsten Halogen and Deuterium Lamp		
Display	LCD		
Overall Dimension	470x373x187mm		
Power Supply	220V 60Hz		
Weight	14 kg		
Catalog No.	9153104346 9153105346 9153106346		9153106346



DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER LUVSD-100 SERIES

Labocon Double Beam UV Visible Spectrophotometer LUVSD-100 Series offers the measurement range of 190-1100nm at bandwidth of 1.8nm and 2nm; these systems provide the high accuracy, reproducibility and high throughput at each run.

The LUVSD-100 Series produces the photometric range of -0.3 to 3 A; 0-200 %T and photometric accuracy of ±0.2%T; which is ideally suitable for quantitative determination of different assays in nucleic acid, proteins, toxicological assays and optical density measurement.

Features

Wavelength range

• 190-1100nm

Spectral Bandwidth

1.8nm and 2nm

Detector

Silicon Photodiode

Stray Light

Stray light is achieved at ≤0.03%T

Light source

Deuterium and tungsten halogen lamp

Sample size

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

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.





Features

- Double beam optical system having suspended posture
- 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
- LCD display
- Automatic wavelength setting
- Equipped with scanning software
- High, medium and low scanning speed
- Model LUVSD-102:
 - Automatically adjustable variable bandwidth 0.5/1.0/2.0/4.0/5.0nm
 - Original packaging includes imported core components
 - USB port and parallel port
 - Inclusive of standard PC software

Application

Labocon Double Beam UV Visible Spectrophotometer LUVSD-100 series is widely used in following application:

- For measurement of DNA, RNA and oligonucleotide and Protein
- Proteins can be quantitated by BCA, Biuret, Bradford, Direct UV and Lowry
- The OD of bacterial cell culture solutions can be measured to optimize harvest times
- For the determination of metal and organic non-metal analytes in water
- Ideal to be use in petrochemical labs as they are solvent resistant such as Naphthalene in aviation



Model	LUVSD-101	LUVSD-102
Wavelength Range	190-1100nm	
Wavelength Accuracy	±0.1nm(D2 656	6.1NM),±0.3nm
Wavelength Repeatability	≤0.1	nm
Spectral Bandwidth	1.8nm	2nm
Stability	±0.0004A	/h(500nm)
Baseline Flatness	±0.00	D01A
Photometric Range	O-200%T, -0.3	3A, O-9999C
Photometric Accuracy	±0.2	2%Т
Photometric Repeatability	≤0.15%T	
Stray Light	≤0.03%T	
Light Source	Deuterium & Tungsten Halogen Lamp	
Display	LCD	
Detector	Silicon Ph	notodiode
Noise	±0.00	005A
Overall Dimension	625x430x210mm	
Power	300 W	
Power Supply	220V 63Hz	220V 64Hz
Weight	28 kg	
Catalog No.	9153165252	9153166252



DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER LUVSD-200 SERIES

Labocon Double Beam UV Visible Spectrophotometer LUVSD-200 Series offers the measurement range of 190-1100nm at bandwidth of 0.5, 1.0, 2.0, 4.0nm; these systems provide the high accuracy, reproducibility and high throughput at each run.

The LUVSD-200 Series range produces the photometric range of -0.3 to 3 A; 0-200 %T and photometric accuracy of ±0.3%T; which is ideally suitable for quantitative determination of different assays in nucleic acid, proteins, toxicological assays and optical density measurement.

Features

- Wavelength range
 - 190-1100nm
- **Spectral Bandwidth**
 - 0.5, 1.0, 2.0, 4.0nm
- **Optical System**
 - Monochromator with 1200 lines/mm blazed holographic grating
- Detector
 - Silicon Photodiode
- **Stray Light**
 - Stray light is achieved at ≤0.05%T at 220nm and 360nm
- Light source
 - Deuterium and tungsten halogen lamp
- Sample size
 - A wide range of standard cuvettes to be use based on the sensitivity or sample volume requirements.
- 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.



Additional Features

- Model LUVSD-201B: Adopts variable bandwidth 0.5/1.0/2.0/4.0nm
- Model LUVSD-202: Optional bandwidth 0.5/1.0/2.0/4.0nm
 - Online software up gradation via internet (for stand-alone models)
 - HP or Epson Deskjet printer to print results and graphs

Application

Labocon Double Beam UV Visible Spectrophotometer LUVSD-200 series is widely used in following application:

- For measurement of DNA, RNA and oligonucleotide and Protein
- Proteins can be quantitated by BCA, Biuret, Bradford, Direct UV and Lowry
- The OD of bacterial cell culture solutions can be measured to optimize harvest times
- For the determination of metal and organic non-metal analytes in water
- Ideal to be use in petrochemical labs as they are solvent resistant such as Naphthalene in aviation







Model	LUVSD-201	LUVSD-201A	LUVSD-201B	LUVSD-202
Wavelength Range		190-11	00nm	
Wavelength Accuracy		±0.3	3nm	
Wavelength Repeatability		0.2	!nm	
Spectral Bandwidth	1.8nm	lnm	0.5, 1.0, 2.0, 4.0nm	0.5, 1.0, 2.0, 4.0nm (optional)
Stability	đ	± 0.001A/h at 500nn	n	± 0.0004A/h at 500nm
Baseline Flatness		± 0.00	O1A/h	
Photometric Range	-0.3	-0.3-3A,0-200%T,0-9999C		
Photometric Accuracy	±0.3%T			
Photometric Repeatability	O.2%T			
Stray Light	≤0.05%T at 220nm,360nm			
Light Source	D2 Lamp & W Lamp			
Display	LCD			
Detector	Silicon Photodiode			
Noise	± 0.001A/h ± 0.0004A/h			± 0.0004A/h
Overall Dimension	625x430x206mm 635x440x210mm			
Power Supply	220V/50Hz 110V/60Hz			
Weight	30 kg			
Catalog No.	9153167347	9153168347	9153169347	9153170347



DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER LUVSD-300 SERIES

Labocon Double Beam UV Visible Spectrophotometer LUVSD-300 Series offers the measurement range of 190-1100nm at bandwidth of 0.5, 1.0, 2.0, 4.0nm; these systems provide the high accuracy, reproducibility and high throughput at each run.

The LUVSD-300 Series range produces the photometric range of -0.3 to 3 A; 0-200 %T and photometric accuracy of ±0.3%T; which is ideally suitable for quantitative determination of different assays in nucleic acid, proteins, toxicological assays and optical density measurement.

Features

- Wavelength range
 - 190-1100nm
- **Spectral Bandwidth**
 - 0.5, 1.0, 2.0, 4.0nm
- Stray Light
 - Stray light is achieved at ≤0.05%T at 220nm and 360nm
- Light source
 - Deuterium and tungsten halogen lamp
- Sample size
 - A wide range of standard cuvettes to be use based on the sensitivity of the sample volume requirements
 - Large sample compartment to accommodate 5-100mm cuvettes with holders

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.



Additional Features

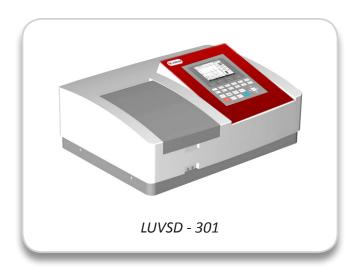
- Fixed or variable bandwidth
- Automatic switching between deuterium and tungsten lamp
- USB port and parallel port
- Stand-alone model have 5 inch screen
- Model LUVSD-301: Optional PC model with UV/Vis analyst software
- Model LUVSD-302: Optical system with PC software (optional)
 - · Online software up gradation via internet
 - Downloading data to PC software enables unlimited data storage
 - 10mm standard cell holder

Application

Labocon Double Beam UV Visible Spectrophotometer LUVSD-300 series is widely used in following application:

For measurement of DNA, RNA and oligonucleotide and Protein

- Proteins can be quantitated by BCA, Biuret, Bradford, Direct UV and Lowry
- The OD of bacterial cell culture solutions can be measured to optimize harvest times
- For the determination of metal and organic non-metal analytes in water
- Ideal to be use in petrochemical labs as they are solvent resistant such as Naphthalene in aviation





Model	LUVSD-301	LUVSD-302	
Wavelength Range	190-1100nm		
Wavelength Accuracy	±0.3	3nm	
Wavelength Repeatability	0.2	nm	
Spectral Bandwidth	1.8nm; PC model: 0.5, 1, 2, 4, 5nm	1nm	
Stability	±0.0005A/	h at 500nm	
Baseline Flatness	±0.0	001A	
Photometric Range	0.200%T,	-0.3-3.0A	
Photometric Accuracy	≤±0.3%T or ±0.002A at 1A		
Stray Light	0.05%T at 220,360nm		
Light Source	Deuterium and Tungsten Halogen Lamp		
Display	LC	ID .	
Software	Optional PC model with UV/Vis analyst software	Optional PC software	
Overall Dimension	600x450x200mm		
Power Supply	220V 60Hz		
Weight	22 kg		
Catalog No.	9153171346	9153172346	



SPLIT DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER LSUVS-100 SERIES

Labocon Split double Beam UV Visible spectrophotometers LSUVS-100 Series offers measurement range of 190-1100nm at bandwidth of 1.8 and 4nm; which delivers high accuracy, reproducibility and high throughput at each run.

LSUVS-100 Series best suitable for:

- Measurement of DNA, RNA and oligonucleotide and Protein
- Proteins can be quantitated by BCA, Biuret, Bradford, Direct UV and Lowry
- The OD of bacterial cell culture solutions can be measured to optimize harvest times
- Determination of metal and organic non-metal analytes in water
- Ideal to be use in petrochemical labs as they are solvent resistant such as Naphthalene in aviation

Features

Wavelength range

• 190-1100nm

Bandwidth

• 1.8nm/4nm

Optical System

- Split Double beam optical system
- Czerny-Turner diffraction monochromator having 1200 lines/mm grating

Wide measurement range with ultra-low Stray Light achieved at highest Resolution

 With its ultra-low stray light (≤0.05 %T (220nm, 340nm)) is achieved at wavelength range of 190 - 1100 nm

Flexibility with various sample size

· A wide range of standard cuvettes can be use 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



Additional Feature

- USB data interface with online PC software ensures powerful function and data processing capabilities
- Automatic 4-position cell holder and optional 7-position or 16-position cell holder
- Variety of optional accessories suitable for different applications including reflection sample holder, solid sample holder, water bath and auto sampler

Application

Labocon Split double Beam UV Visible Spectrophotometer LSUVS-100 Series is widely used for analytical testing in various fields like biochemistry, organic chemistry, pharmaceutical analysis, food testing, medicine and health, environmental protection, life sciences, etc.





Model	LSUVS-101	LSUVS-101PC
Wavelength Range	190-1100nm	
Wavelength Accuracy	±0.5	ōnm
Wavelength Repeatability	±0.2	2nm
Spectral Bandwidth	1.8nm or 4n	nm optional
Stability	±0.001A/h a	t 500nm, 0A
Baseline Flatness	±0.0	02A
Photometric Range	0-200 %T; -0.3-3.	OA; -9999-9999C
Photometric Accuracy	±0.002A (0-0.5A); ±0.004A (0.5-1A); ±0.008A (1-2A); ±0.3% (0-100%T)	
Photometric Repeatability	±0.002A (0-0.5A); ±0.004A (0.5-1A); ±0.008A (1-2A); ±0.15% (0-100%T)	
Stray Light	≤0.05 %T (220	Onm, 340nm)
Display	LC	.D
Noise	±0.001A	
Software	None	PC with on-line software
Overall Dimension	470x390x225mm	
Weight	20 kg	
Catalog No.	9153173164	9153174164



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