

LUS - Series

**Double Beam UV/Vis
Spectrophotometer**



Double Beam UV/Vis Spectrophotometer LUS-B10

Labodam LUS-B10 is fully automated with improved and optimized optical path design giving high performance and reliability. It can meet the requirements of various applications

Features

- Improved and optimized optical path design
- Large scale integrated circuit design to improve the scalability and reliability of the system.
- Printer with USB interface
- 6 inches large screen
- More accurate and flexible measurements



Application

Medicine analysis, life sciences, farming, fishery, metal element, Geological exploration, food safety.

Double Beam UV/Vis Spectrophotometer LUS-B10

Technical Specification

Model No.	LUS-B10
Wavelength range	190-1100nm
Spectral bandwidth	1.0nm
Wavelength accuracy	± 0.3nm
Transmittance accuracy	± 0.3% T (0-100% T) ± 0.002A (0~0.5A) ± 0.003A (0.5A~1A)
Transmittance repeatability	±0.15% T (0-100% T) ± 0.001A(0 ~0.5A) ± 0.0015A (0.5A ~ 1A)
Photometric range	-4 to 4A
Stability	0.0005 / h (after 500nm preheating)
Stray light	0.03% T (220 nm NaI, 340nm NaNo ₂)
Photometric Mode	T,A,C,E
Setting Wavelength	Automatic adjustment
Light source	Imports of deuterium lamp, tungsten lamp imports
Detector	Imported silicon photodiode
Display mode	6 inch high brightness LCD Screen
Dimensions	560x450x230mm
Power	120W
Power Requirement	AC 220V/50 Hz or 110V/60 Hz
Weight	28kg

Double Beam UV/Vis Spectrophotometer LUS-B11

Labodam LUS-B11 assures long term stability and durability. It can simultaneously optimize the measurement accuracy. It has Tungsten/halogen lamps which are very efficient, and their output extends well into the ultra-violet.

Features

- Extremely adaptable with full functionality from 190 to 1100nm
- Measurement modes for photometric, concentration, multi-wavelength, spectrum scanning, kinetics, quantitation
- 2 or 8 cell holder available
- 6 inches LCD display & integrated user interface
- USB port for data storage
- ISO/CE Certificate passed



Application

It is ideal for quality control, general research, pharmaceutical, biochemical and clinical laboratory applications

Double Beam UV/Vis Spectrophotometer LUS-B11

Technical Specification

Model No.	LUS-B11
Wavelength Range	190-1100nm
Bandwidth	1.8nm
Wavelength Accuracy	±0.3nm
Wavelength Repeatability	0.2nm
Photometric Accuracy	±0.3%T
Photometric Repeatability	0.2%T
Photometric Range	-0.3-3A,0-200%T,0-9999C
Stability	± 0.001A/h @ 500nm
Baseline Flatness	±0.001A
Noise	±0.001A
Data Output Port	USB
Printer Port	Parallel Port
Optical System	Double Beam (1200 lines/mm grating)
Display Mode	320x240 Dots LCD Display
Light Source	Deuterium & Tungsten Halogen Lamp
Detector	Silicon Photodiode
Software	UV PC Software
Stray Light	0.05%T @220nm, 360nm
Power Requirement	AC 220V/50Hz, 110V/60Hz.
Packing Size	860x660x465mm
Packing Weight	35kg

Double Beam UV/Vis Spectrophotometer LUS-B12

Labodam LUS-B12 is deliberately designed to have long lasting stability light. It is equipped with high resolution and a better level of detection with a low ultra-stray light which does not affect the measurement.

Features

- User friendly interface
- Low ultra-stray light
- light source Can be easily substituted
- Effortlessly upgraded



Application

It is ideal for quality control, general research, pharmaceutical and clinical laboratory

Double Beam UV/Vis Spectrophotometer LUS-B12

Technical Specification

Model No.	LUS-B12
Wavelength Range	190~1100nm
Spectral Bandwidth	1.8nm
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	0.2nm
Optical System	Proportion monitor double beam
Photometric Range	T:0~200.00%T A:-0.301~4.0000Abs
Photometric Accuracy	±0.3%T
Photometric Repeatability	0.1%T
Stray Light	0.05%T(220nm, 340nm)
Baseline linearity	±0.002A
Baseline drift	0.001A/h(500nm)
Noise	100%(T)line noise 0.1%(T)0%(T) line noise 0.05%(T)
Display mode	128*64 LCD Display
Dimensions	540×445×230mm

Double Beam UV/Vis Spectrophotometer LUS-B13

Labodam LUS-B13 offers four customized spectral bandwidth range (4nm, 2nm, 1nm, 0.5nm) to meet the market needs. It is fully automated and can achieve more accurate and flexible measurement via PC control

Features

- Automatic design to achieve the simplest means of measurement
- Improved scalability and reliability of the system through LSI design
- High performance and high reliability
- Measurement data can be output through the printer with USB interface
- Can be powered down to save the measurement parameters and data, user-friendly



Application

Medicine analysis, life sciences, farming, fishery, metal element, Geological exploration, food safety.

Double Beam UV/Vis Spectrophotometer LUS-B13

Technical Specification

Model No.	LUS-B13		
Optical System	Double beam		
Wavelength Range	190~1100nm		
Bandwidth	2nm (Optional: 0.5nm, 1nm, 4nm, 5nm / Adjustable : 0.5 , 1, 2, 4nm)		
Wavelength Accuracy	±0.3nm		
Wavelength Repeatability	0.1nm		
Photometric Accuracy	±0.3%	0-100%	±0.002A(0 0.5A) ±0.003A(0.5A 1A)
Photometric Repeatability	0.15%	0-100%	±0.001A(0 0.5A) ±0.0015A(0.5A 1A)
Stray Light	0.03%	(220nm NaI 340nm NaNO ₂)	
Stability	0.0005A/h @500nm		
Noise	± 0.0002A @500nm		
Baseline Flatness	± 0.001A		
Photometric Mode	T,A,C,E		
Wavelength Setting	Automatic		
Photometric Range	-4 4A		
Display Mode	6 inches high brightness blue LCD		
Detector	Import Silicon Photodiode		
Light Source	Import Deuterium Lamp & Tungsten Halogen Lamp		
Power Requirement	AC 220V/50Hz 110V/60Hz		
Power	120W		
Dimensions(W*D*H)	560×450×230mm		
Weight	28Kg		

Double Beam UV/Vis Spectrophotometer LUS-B20

Labodam LUS-B20 Double beam spectrophotometer is deliberately designed with continuous adjustable spectral bandwidth from 0.1 to 5.0nm with high SNR and lasting stability. It uses powerful software function and multi-level application requirement in industries and research

Features

- Spectrum scan
- Quantitative determination
- Long lasting Stability
- Ultra-low stray light
- Photometric, 3D Map & Dynamics measurement



Application

It is ideal for quality control, general research, pharmaceutical, biochemical and clinical laboratory applications

Double Beam UV/Vis Spectrophotometer LUS-B20

Technical Specification

Model No.	LUS-B20
Wavelength Range	190~900nm
Spectral Bandwidth	0.1-5.0nm continuous adjustable
Wavelength Accuracy	±0.3nm
Wavelength Repeatability	0.1nm
Photometric Range	A: -4.0~4.0 Abs
Photometric Accuracy	±0.3%T
Photometric Repeatability	0.1%T
Optical System	Double Beam
Stray Light	0.015%T(220nmNaI; 360nmNaNO ₂)
Baseline linearity	±0.001 Abs
Baseline drift	±0.0004 Abs/h (500nm, warm up after 2h)
Noise	±0.0004 Abs
Dimension	600×505×240mm



labodam

Labodam Equipment Ltd

18a Melton Road Leicester LE4 5EA

United Kingdom

www.labodam.com // info@labodam.com