

**LUS-Series**

**SINGLE BEAM UV/VIS**  
Spectrophotometer



## Single Beam UV/Visible Spectrophotometer LUS-A1 series

Labodam Single Beam Spectrophotometer LUS-A1 Series is formulated with large screen display and 4 cell holder. It has full functionality from 190 – 1100nm.

### Features

- Single beam spectrophotometer
- Highly stable optics
- 6 inches LCD (320x240 Dots) display & integrated user interface
- 4 or 8 cell holder available along with USB port for data storage.
- Wide range of accessories available
- Exceptionally versatile with full functionality from 190-1100nm
- ISO/CE Certificate passed



### Application

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

# Single Beam UV/Visible Spectrophotometer LUS-A1 series

## Technical Specification

Model no.	LUS-A10	LUS-A11
Wavelength Range	190-1100nm	
Bandwidth	1 nm	1.8 nm
Wavelength Accuracy	±0.3 nm	
Wavelength Repeatability	0.2 nm	
Optical System	Single Beam (1200 lines/mm grating)	
Detector	Silicon Photodiode	
Lamps	Deuterium & Tungsten Halogen Lamp	
Photometric Accuracy	±0.3%T	
Photometric Repeatability	0.2%T	
Photometric Display Range	0-200%T, -0.3-3.0A, 0-9999C	
Stability	0.002A/h @ 500nm	
Baseline Flatness	±0.001A	
Noise	±0.001A	
Stray Light	0.05%T @ 220nm, 360nm	
Data Output Port	USB	
Printer Port	Parallel Port	
Power Supply	AC 220V/50Hz, 110V/60Hz.	
Packing Size	860x660x465mm	
Packing Weight	35kg	

## Single Beam UV/Visible Spectrophotometer LUS - A20

Labodam LUS - A20 UV/Vis Spectrophotometer provides a huge memory space which can store and display multiple sets of data and curves. It can achieve more accurate and flexible measurement requirements via PC control.

### Features

- Single-chip microcomputer control
- Equipped with 128\*64 Dots LCD display
- Auto zero, 100% adjustment function
- Wavelength automatic adjustment
- Wrap lights, automatic filter change , large sample pool (0.5mm ~ 100mm)
- Direct input by K, B factor for quantitative measurement standard curve
- General Parallel printer interface with USB interface



### Application

Organic chemistry, Inorganic chemistry, biological research, bio-industry, pharmaceutical analysis, pharmaceutical, teaching and research, environmental protection, food hygiene, clinical examination, health and epidemic prevention and other fields

# Single Beam UV/Visible Spectrophotometer LUS - A20

## Technical Specification

Model no.	LUS - A20
Wavelength Range	190~1100nm
Bandwidth	2nm
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	0.2nm
Photometric Accuracy	±0.5%
Photometric Repeatability	0.2%
Stray Light	0.05% (220nm NaI 340nm NaNO <sub>2</sub> )
Stability	0.001A/h@500nm
Photometric Mode	T,A,C,E
Wavelength Setting	Automatic
Photometric Display Range	-0.3 3A
Display Mode	LCD Screen (128*64 Dots)
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)	480×350×220mm
Weight	15Kg

## Single Beam UV/Visible Spectrophotometer LUS - A21

Labodam LUS-A21 UV/Vis Spectrophotometer offers five custom installation spectral bandwidth range of 5nm, 4nm, 2nm, 1nm and 0.5nm. It is more accurate and flexible measurement via PC control.

### Features

- Simple measurement calculation are obtained automatically
- Enhancement of scalability and reliability of the system through LSI design
- Improved optimization of the optical design
- High performance and high reliability
- 6 inches high brightness blue LCD
- 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

Organic chemistry, Inorganic chemistry, biological research, bio-industry, pharmaceutical analysis, pharmaceutical, teaching and research, environmental protection, food hygiene, clinical examination, health and epidemic prevention and other fields

# Single Beam UV/Visible Spectrophotometer LUS - A21

## Technical Specification

Model no.	LUS - A21		
Wavelength Range	190~1100nm		
Bandwidth	2nm		
	Optional :0.5nm, 1nm, 4nm, 5nm or 0.5 , 1, 2, 4nm (adjustable)		
Wavelength Accuracy	±0.3nm		
Wavelength Repeatability	0.1nm		
Photometric Accuracy	±0.3%	0-100%	±0.002A(0.5A) ±0.003A(0.5A 1A)
Photometric Repeatability	0.15%	0-100%	±0.001A(0.5A) ±0.0015A(0.5A 1A)
Stray Light	0.03% (220nm NaI 340nm NaNO <sub>2</sub> )		
Stability	0.0005A/h@500nm		
Noise	± 0.0002A @500nm		
Baseline Flatness	± 0.001A		
Photometric Mode	T,A,C,E		
Wavelength Setting	Automatic		
Photometric Display 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		

## Single Beam UV/Visible Spectrophotometer LUS-A22

Labodam LUS-A22 is specially designed for Industries and Labs. It is equipped with system clock management and one touch key response.

### Features

- High UV-Vis performance between 190 and 1100 nm
- Pre-set wavelength program (4 wavelengths)
- Single-point and multi-point curve calibration (up to 12 points)
- Display of fitting degree of curve fitting and concentration data with up to 200 sets of data storage
- System clock management/ Dark current calibration/ wavelength calibration/USB data communication
- One-touch key response
- Data-processing software (Optional)



### Application

Organic chemistry, Inorganic chemistry, biological research, bio-industry, pharmaceutical analysis, pharmaceutical, teaching and research, environmental protection, food hygiene, clinical examination, health and epidemic prevention and other fields



# Single Beam UV/Visible Spectrophotometer LUS-A22

## Technical Specification

Model No.	LUS-A22
Wavelength Range	190 - 1100nm
Step interval	0.1nm
Spectral Bandwidth	2nm
Wavelength Accuracy	±1.0nm (Calibrate by system automatically )
Wavelength Repeatability	0.5nm
Optical System	Single beam, C-T type, 1200 lines/mm grating
Detector	Silicon photo diode
Light Source	Tungsten lamp (socket type, 20W / 12V, 2000 hours) Deuterium lamp (1000 hours)
Display Mode	128×64 LCD
Stray Light	0.15%T (220NaI)
Photometric Range	T:-1.0 ~ 200.0%T ,A:-0.5 ~ 3.000Abs,F:0 ~ 9999,C:0 ~ 9999
Photometric Accuracy	±0.5%T
Photometric Repeatability	0.2%T
Stability	±0.002A/h
Data Output	USB interface, LPT parallel printer interface
Software	UV-Solution (optional)
Power Requirement	220V±10% 50Hz 150VA
Dimensions(W*D*H)	456×375×220mm
Net Weight	17.5kg
Gross Weight	22.5kg

## Single Beam UV/Visible Spectrophotometer LUS-A30

Labodam UV/Vis Spectrophotometer provides a huge memory space which can store and display multiple sets of data and curves. It can achieve more accurate and flexible measurement requirements via PC control.

### Features

- Single-chip microcomputer control, LCD Screen (128\*64 Dots)
- Auto zero, 100% adjustment function
- Wavelength automatic adjustment
- Wrap lights, automatic filter change , large sample pool (0.5mm ~ 100mm)
- Can be edited at any time of the standard curve, user-friendly
- General Parallel printer interface with USB interface



### Application

Organic chemistry, Inorganic chemistry, Life sciences, food, Medicine and health, Agriculture, Geology, Metallurgy and Environment etc.

# Single Beam UV/Visible Spectrophotometer LUS-A30

## Technical Specification

Model No.	LUS-A30
Wavelength Range	190 1100nm
Spectral Bandwidth	4nm
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	0.2nm
Optical System	±0.5%
Photometric Range	0.2%
Photometric Accuracy	0.05% (220nm NaI 340nm NaNO <sub>2</sub> )
Photometric Repeatability	0.001A/h@500nm
Stray Light	T,A,C,E
Baseline linearity	Automatic
Photometric Display Range	-0.3 3A
Display Mode	LCD Screen (128*64 Dots)
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)	480×350×220mm
Weight	15Kg

## Single Beam UV/Visible Spectrophotometer LUS-A40

Labodam fabricates Single Beam Spectrophotometer having large screen display with 4 cell holder. Our product is ISO/CE certified.

### Features

- 6 inches LCD display & integrated user interface
- Single beam spectrophotometer
- Highly stable optics
- Extremely versatile with full functionality from 190 to 1100nm.
- 4 or 8 cell holder available along with USB port for data storage
- Extensive range of accessories available
- ISO/CE Certificate passed



### Application

Organic chemistry, Inorganic chemistry, Life sciences, food, Medicine and health, Agriculture, Geology, Metallurgy and Environment etc.

# Single Beam UV/Visible Spectrophotometer LUS-A40

## Technical Specification

Model No.	LUS-A40
Wavelength Range	190-1100nm
Bandwidth	0.5/1.0/2.0/4.0/5.0nm
Wavelength Accuracy	±0.3nm
Wavelength Repeatability	0.2nm
Optical System	Single Beam (1200 lines/mm grating)
Display	LCD (320x240 Dots )
Detector	Silicon Photodiode
Photometric Accuracy	±0.3%T
Photometric Repeatability	0.2%T
Photometric Display Range	0-200%T, -0.3-3.0A, 0-9999C
Stability	0.002A/h @ 500nm
Baseline Flatness	±0.001A
Noise	±0.001A
Stray Light	0.05%T @220nm, 360nm
Data Output Port	USB
Printer Port	Parallel Port
Lamps	Deuterium & Tungsten Halogen Lamp
Power Supply	AC 220V/50Hz, 110V/60Hz.
Packing Size	860x660x465mm
Packing Weight	35kg



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