



## **Single Beam UV/Vis Spectrophotometer LD-LUS-A51**

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# Single Beam UV/Vis Spectrophotometer LD-LUS-A51

## Overview

Single Beam UV/Vis Spectrophotometer LUS-A51 is bench top device with 190 nm to 1100 nm wavelength range, and offers spectral bandwidth of 1 nm. With T, A, C, E work mode it is designed with Hi, Med, Low (Max. 3000 nm/min) scanning speed range. The latest ARM system and long optical system ensure high accuracy and good stability of the instrument. The 10.1 inch TFT Touch colored display and it can perform powerful functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum scan, DNA/Protein test, Multi-wavelength test etc. This advance, high quality spectrophotometer supports USB data transfer and storage system.

## Features:

- Work mode T, A, C, E and scanning speed range Hi, Med, Low (Max. 3000 nm/min)
- In-house massive memory is capable of saving up to 1024 M for test data & working curves
- Designed with 10.1 inches high resolution TFT colored capacitive touch screen and windows Graphic interface
- Large sample chamber can accommodate 5 to 100 mm cuvettes of all kinds
- Equipped with powerful functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum scan, DNA/Protein test, Multi-wavelength test, etc
- The USB port can be used for data transfer, which can easily exported to excel for further processing
- Socket type deuterium and tungsten lamp can make lamps switching without optics debugging and easy to be replaced

## Applications:

Single Beam UV/Vis Spectrophotometer is used in high requirement for precision measurement in the research and production of organic chemistry, biochemistry, medical testing, food testing, environmental protection, water testing industries, etc.

## Specifications:

1	10 mm glass cuvette x 4
2	10 mm quartz cuvette x 2
3	2, power cord
4	User manual
5	PC software
<b>Noise</b>	0.0005 A @ 500 nm
<b>Display</b>	10.1 inches TFT colored capacitive touch screen
<b>Detector</b>	Imported silicon photodiode
<b>Dimension</b>	810 x 660 x 390 mm

<b>Stability</b>	± 0.0005 A/h @ 500 nm
<b>Work mode</b>	T, A, C, E
<b>Stray light</b>	? 0.03 % T @ 220 nm, 360 nm
<b>Gross weight</b>	27 kg
<b>Light source</b>	Imported Deuterium and Tungsten lamp
<b>Power supply</b>	AC 220 V, 50 Hz or 110 V, 60 Hz
<b>Printer port</b>	Parallel port
<b>Cuvette holder</b>	10 mm manual 4 cell holder
<b>Optical system</b>	Single beam 1200 lines/mm
<b>Scanning speed</b>	Hi, Med, Low (Max. 3000 nm/min)
<b>Data Output Port</b>	USB drive, USB host, RS232
<b>Wavelength range</b>	190 to 1100 nm
<b>Baseline flatness</b>	± 0.001 A
<b>Photometric Range</b>	0 to 200 %T, -0.3 to 3A, 0 to 9999 C (0 to 9999F)
<b>Spectral bandwidth</b>	1 nm
<b>Wavelength setting</b>	Auto
<b>Wavelength Accuracy</b>	± 0.1nm @ 656.1 nm, ± 0.3 nm @ all
<b>Photometric Accuracy</b>	0.2%T (0 to 100 %T), ±0.002A(0 to 0.5 A), ±0.004A (0.5 to 1 A)
<b>Wavelength Repeatability</b>	? 0.1 nm
<b>Photometric Repeatability</b>	?0.15 % T (0 to 100 %T), 0.001A (0 to 0.5A), 0.002A (0.5 to 1A)