

# Touch Screen Double Beam Spectrophotometer



Touch Screen Double beam spectrophotometer LX810TS, LX811TS, LX812TS comes with 190 to 1100 nm wavelength range. Deuterium Lamp (UV light) and Tungsten lamp (visible light) acts as a light source. Designed with colored Touch LCD screen, easy to use finger touch operations. Advanced ARM system and long optical system ensures precision measurements and good stability.

### Features

---

- 10.1 inch colored Touch LCD display
- 190 to 1100 nm Wide Wavelength range
- Built-in 1 GB memory storage for tests data and working curves
- Fixed 2 position cuvette holder, one for sample other for reference
- 21 CFR part 11 compliant software
- Performs photometric, quantitative, kinetic, spectrum scan, multi-wavelength measurements
- Switches lamps without optics debugging, for easy replacement
- USB port for data transfer to PC and other devices for further analysis, processing
- Available with optional Auto 8 Cell holder

### Applications

---

Used in biochemistry, biotechnology, microbiology, chemistry, pharmacy, water testing, environmental and food science industries for Quality & Research analysis.

**Specifications**

Model no.	LX810TS	LX811TS	LX812TS
Optical system	Double beam, grating 1200 lines/ mm		
Wavelength range	190 to 1100 nm		
Spectral bandwidth	2 nm	1 nm	0.5/ 1/ 2/ 4/ 5 nm
Wavelength accuracy	$\pm 0.3$ nm		
Wavelength repeatability	$\leq 0.1$ nm		
Photometric accuracy	$\pm 0.3$ % T ( 0 to 100% T)		
Photometric repeatability	$\pm 0.1$ % T ( 0 to 100% T)		
Photometric range	0 to 200 % T, 3 to 3 A		
Stray light	$\leq 0.03$ % T		
Stability	$\pm 0.0003$ A/ h @ 500 nm		
Baseline flatness	$\pm 0.0002$ A		$\pm 0.001$ A
Work mode	T, A, C, E		
Scanning speed	Fast, mid, slow		
Wavelength setting	Automatic		
Display	10.1 inch color Touch LCD display		
Light source	Imported deuterium and tungsten lamp		
Detector	Imported silicon photodiode		
Output	USB/ RS 232		
Ambient temperature	10 to 35°C		
Relative Humidity	$\leq 85\%$		
Power	AC 220 V/ 50 Hz Or AC110 V/ 60 Hz		
Dimension	590 × 475 × 250 mm		
Packaging dimension	770 × 630 × 340 mm		
Net weight	20 kg		
Gross weight	26 kg		

**Standard accessories**

Accessories No.	Name	Qty.
1	Glass cuvette 10 mm	1 set of 4
2	Quartz cuvette 10 mm	1 set of 2
3	Power cable	1
4	PC software	1

**Optional accessories**

Accessories No.	Name
1	Glass cuvettes 5 to 100 mm
2	Quartz cuvettes 5 to 100 mm
3	Manual 4- cell holder (10 to 100 mm)
4	Auto 8- cell holder
5	Tungsten lamp
6	Deuterium lamp