

UV-Visible

Spectrophotometer



ABSORBANCE

DOUBLE BEAM UV - VIS. SPECTROPHOTOMETER MODEL LUV - 100 A

Newly designed LUV-100 A satisfies the demands of high precision & reliability for variety of applications.



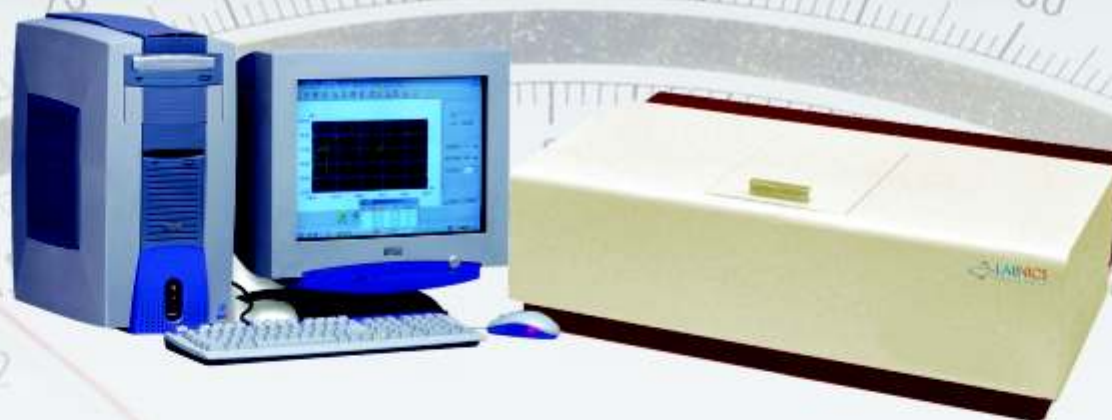
FEATURES:

- ☞ Five options for spectral bandwidth selection.
- ☞ Fully automated design.
- ☞ Optimized optics and large scale integrated design.
- ☞ Rich measurement methods: Wavelength & time scan, multi-wavelength determination, multi orders of derivative determination (optional).
- ☞ Automatic 8-cell holder of 10mm size, changeable to automatic 5mm~50mm cells, 4 position cell holder for more choices.
- ☞ RS-232 interface.
- ☞ Parameter and standard curve (data) can be saved.

Technical Specifications:

MODEL	LUV - 100 A
Wavelength Range	190 nm~1100 nm
Spectral Bandwidth	2 nm (5nm, 4nm, 1nm, 0.5nm optional)
Wavelength Accuracy	±0.3 nm
Wavelength Reproducibility	≤ 0.15 nm
Photometric Accuracy	±0.3%T (0~100%T); ±0.002A (0~1A)
Photometric Reproducibility	≤ 0.2%T
Optical system	Double beam
Working Mode	T, A (-0.3~3.5A) C, E
Stray Light	≤ 0.1%T (NaI, at 220nm), NaNo, at 340 nm
Baseline Flatness	± 0.002A
Stability	≤ 0.001A/h (500 nm, after warming up)
Noise	± 0.001A (at 500 nm, after warming up)
Detector	Silicon photo diode
Display	6 inches high light blue LCD
Dimension (W x D x H) mm	630 x 470 x 210
Weight	26kg
Catalog No.	31260101

MODEL LUV - 100 B



FEATURES:

- ☛ Double beam fully automated scanning system.
- ☛ Compatible PC controlled with rich analytical software.
- ☛ Wavelength Scan: Scanning sample spectra in any range within 190-900nm.
- ☛ Scanning speed: Fast, middle and slow selectable with minimum sampling interval of 0.04nm.
- ☛ Data processing function of derivative spectra and smoothing, peak detection, spectrum expansion, superposition and other arithmetic calculation.
- ☛ Fixed wavelength measurement: Maximum of 10 wavelengths can be set at the same time.
- ☛ Kinetic measurement: Wavelengths and sampling interval selectable, activity calculation available.
- ☛ Quantitative analysis: Standard factor method, standard contrast method, two and three wavelength method etc.

Technical Specifications:

MODEL	LUV - 100 B
Wavelength range	190~900nm
Spectral Bandwidth	0.1, 0.2, 0.5, 1.0, 2.0nm
Wavelength accuracy	± 0.3nm (0.15nm, if required)
Wavelength Reproducibility	0.15nm
Photometric Accuracy	± 0.3%T (0~100%T), ± 0.002A (0~0.5A), ± 0.004A (0.5A~1A)
Photometric Reproducibility	0.001A (0~0.5A)
Working mode	T, A (-0.3 - 4A), E
Stray Light	≤ 0.05%T(Nal at 220nm)
Baseline Flatness	± 0.001A
Stability	0.0004A/h (at 500nm, after warming up)
Detector	Photomultiplier
Light source	Deuterium lamp, Tungsten lamp
Dimension (W x D x H) mm	670 x 470 x 210
Weight	45kg
Catalog No.	31260102

SINGLE BEAM UV - VIS. SPECTROPHOTOMETER MODEL LUV - 200 A



FEATURES:

- ☞ Wide wavelength range, high performance and reliability.
- ☞ The split-beam ratio monitoring system provides accurate measurements and enhances baseline stability.
- ☞ Fully automated design, realizing the simplest measurement.
- ☞ Optimized optics and large scale integrated circuits design.
- ☞ Rich measurement methods, wavelength scan, time scan, multi-wavelength determination, multi-order derivative determination, double-wavelength and triple wavelength methods etc. meet different measurement requirements.
- ☞ Automatic 10mm 8-cell holder, changeable to automatic 5-50mm 4-position cell holder for more choices.
- ☞ Data output can be obtained via a printer port and a RS-232 interface (RS 485 and USB port optional).
- ☞ Parameters and data can be saved for user's convenience.
- ☞ PC controlled measurements can be achieved for more accurate and flexible requirements.

Technical Specifications:

MODEL		LUV - 200 A
Wavelength	Range	190 - 1100nm
	Accuracy	0.3nm
	Reproducibility	0.15nm
Photometric	System	Split-beam ratio monitoring; auto scan; dual detectors
	Accuracy	0.3%T (0 - 100%T)
		0.002A (0 - 0.5A)
		0.004A (0.5A - 1A)
Reproducibility	0.2%T	
	Range	T, A, C, E
Spectral Bandwidth		2nm (5nm, 4nm, 1nm, 0.5nm optional)
Working Mode		- 0.3 - 3A
Stray Light		≤ 0.1%T (NaI 220nm, NaNO ₂ 340nm)
Baseline Flatness		0.002A
Stability		0.001A/30min (at 500nm, after warming up)
Noise		0.001A at 500nm, after warming up
Display		6 inches high light blue LCD
Detector		Silicon photodiode
Dimensions (W x D x H)mm		630 x 470 x 210
Weight		26 Kg
Catalog No.		31260103

MODEL LUV - 200 B



FEATURES:

- ☞ Scan type spectrophotometer with wide wavelength range ensure high performance and reliability.
- ☞ Manual 4-cell holder accommodates long path length cells up to 100mm.
- ☞ Optimized optics and electronic design.
- ☞ Rich measurement methods: wavelength scan, time scan, multi-wavelength determination, multi-order of derivative determination, double-wavelength and triple-wavelength method etc., meet different measurement requirement.
- ☞ Data output can be obtained via printer port and a RS-232 interface (RS485 and USB port optional).
- ☞ Parameters and data can be saved for user's convenience.
- ☞ PC controlled measurement can be achieved for more accurate and flexible requirement.

Technical Specifications:

MODEL		LUV - 200 B
Wavelength	Range	190 - 1100nm
	Accuracy	0.5nm
	Reproducibility	0.2nm
Photometric	Accuracy	0.5%T (0 - 100%T)
		0.002A (0 - 0.5A)
	Reproducibility	0.004A (0.5A - 1A)
	Reproducibility	0.2% T
Spectral Bandwidth		2nm (5nm, 1nm optional)
Working Mode		T, A (-0.3 - 3.5A), C, E
Stray Light		≤ 0.1%T (NaI, 220nm; NaNO ₂ , 340nm)
Baseline Flatness		0.002A
Stability		≤ 0.002A/h (at 500nm, after warming up)
Noise		0.001A (at 500nm, after warming up)
Detector		Silicon photo-diode
Display		6 inches high light blue LCD
Dimensions (W x D x H)		530 x 410 x 210mm
Weight		18Kg
Catalog No.		31260104

UV SPECTROPHOTOMETER MODEL LUV - 300



FEATURES:

- ☞ Microprocessor control, 16 x 2 LCD display.
- ☞ Auto zero and auto 100%T adjustment provided.
- ☞ Calibration curve can be set up by either measuring or entering up to 10 standards or entering K and B factors directly via the keyboard.
- ☞ Data can be printed on an optional desktop printer and can be downloaded to a PC through RS-232.
- ☞ PC control provided for more accurate and flexible measurement requirements (optional).
- ☞ Auto-wavelength control (optional).

Technical Specifications:

MODEL		LUV - 300
Wavelength	Range	190 - 1100nm
	Accuracy	2.0nm
	Reproducibility	1 nm
Photometric	Range	-0.3 - 3A
	Accuracy	0.5%T
	Reproducibility	0.3%T
Monochromator		Single beam, C-T type, grating 1200L/mm
Stray Light		0.1%T (NaI at 220nm, NaNO ₂ at 340nm)
Spectral Bandwidth		5nm (1, 2, 4nm optional)
Stability	0%T	0.2%T (30min)
	100%T	0.001A/30min (at 500nm, after warming up)
Operation Mode		T, A, C, E
Display		16 x 2 LCD
Detector		Silicon Photodiode
Light Source		Tungsten halogen lamp, D2 lamp
Power Consumption		120W
Dimensions (W x D x H) mm		530 x 410 x 210
Net weight		16Kg
Catalog No.		31260105

VISIBLE SPECTROPHOTOMETER MODEL L - VIS - 400



FEATURES:

- ☞ Single beam wavelength scanning in whole wavelength range of 320~1100nm.
- ☞ Manual 4-cell holder accommodates long path length cells up to 100mm.
- ☞ Optimized optical and electronics design ensure high performance and reliability.
- ☞ Rich measurement methods: wavelength scan, time scan, multi-wavelength determination, multi-order derivative determination, double-wavelength method and triple-wavelength method etc., meet different measurement requirement.
- ☞ Data output can be obtained via a printer port and a RS-232 interface (RS485 and USB port optional).
- ☞ Parameters and data can be saved for user's convenience.
- ☞ PC controlled measurement can be achieved for more accurate and flexible requirement.

Technical Specifications:

MODEL		L - VIS - 400
Wavelength	Range	320 - 1100nm
	Accuracy	0.5nm
	Reproducibility	0.2nm
Photometric	Range	-0.3 - 3A
	Accuracy	± 0.5%T (0 - 100%T)
		± 0.002A (0 - 0.5A)
		± 0.004A (0.5A - 1A)
Reproducibility	0.2%T	
Spectral Bandwidth		2.0nm (5nm, 1nm optional)
Monochromator		Single beam, plane grating of 1200L/mm
Working Mode		T, A, C, E
Stray Light		≤ 0.1%T (NaNO ₂ , 360nm)
Baseline Flatness		± 0.002A
Stability		0.001A/h (at 500nm, after warming up)
Light Source		Tungsten halogen lamp
Detector		Silicon photodiode
Display		6 inches high light blue LCD
Dimensions (W x D x H) mm		487 x 388 x 185
Weight		18Kg
Catalog No.		31260106



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