## DRAWELL Artist of Science

## L8 Double Beam UV-VIS Spectrophotometer

The L8 double beam UV-Vis spectrophotometer applies a new optical bench, with 5-speed adjustable bandwidth, ARM chip control and data processing, 8-inch color touch-screen which displays menu and spectral curve and can analyze spectrum test data. It's quite easy for user and computer interaction. The instrument can perform following operations, including photometry, automatic scanning spectral measurement, quantitative analysis, dynamic analysis, and multi-wavelength measurement.

The instrument serves as the basic equipment for quality control, technical evaluation and scientific research, and can be widely used in susceptibility testing, medicine and health, biochemistry, environmental monitoring, commodity inspection, petrochemical and other fields.



• New optical platform, enabling the host machine with excellent optical properties, metering performance, low stray light and noise, high metering accuracy and stability.

- Unique system of deuterium and tungsten lamp installation, facilitating the light source to automatically switch to the best position, and allowing users to operate the instrument,
- replace the light source and maintain the instrument more conveniently, accurately and safely.



- 8-inch color touch-screen, with a good user-machine interface, easy-to- operate.
- USB communication port.





Photometry:	Double Beam
Monochromator Type:	Czerny-Turner
Focal Length:	200mm
Grating:	1600 lines/mm
Detector:	Silicon Photocell
Spectrum Bandwidth:	<b>2nm</b>
Wavelength Setting:	8-inch color touch-screen
Wavelength Range:	190-1100nm
Wavelength Accuracy:	±0.3nm (actual test ±0.2nm)
Wavelength Repeatability:	≤0.1nm
Scanning Speed:	Fast-Medium-Slow
Stray Light :	≤0.02%T( at 220nm Nal, 360nm NaNo2 )
Photometric Range:	0.0-200.0% T, -0.301-4.000 A, 0.000-9999 C
Photometric Accuracy:	$\pm 0.3\%$ T, $\pm 0.002$ Abs (0-0.5A), $\pm 0.004$ Abs (0.5-1A)
Photometric Reneatability.	$< 0.15\%$ T $= 0.001$ Abs $(0_{-}0.5A)$ $= 0.002$ Abs $(0.5_{-}1A)$

≤±0.0008 A(200-1090nm)
100% (T) iioise≤0.1%(T), 0% (T) noise≤0.02%(T)
≤0.004 Abs/h (250nm and 500nm after 2h warm up)
USB
Hamamatsu D2 lamp, Osram halogen tungsten lamp
AC220V±22V 50Hz±1Hz, 200W
730mm X 630mm X 450mm 0.21M <sup>3</sup> 42.5kg

**Standrad Accessories** 

- Operation manual lpc
- Power cable lpc

**Optional Accessories** 

- UV WIN8 station pro software
- Glass cuvette 10mm 4pcs
- Fuse 2pcs
- Quartz cuvette 10mm 2pcs
- Cuvette holder 10mm
- Cuvette holder 50mm 100mm
- Cuvette 20mm 30mm 50mm 100mm

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