TECHNICAL DATA SHEET

ALab™ SP-XUV5102 Touch Screen Xenon Lamp Double Beam UV-Vis Spectrophotometer

Touch screen xenon lamp double beam UV Vis spectrophotometer · 190–1100 nm · 2.0nm bandwidth

ALab™ SP-XUV5102 Touch Screen Xenon Lamp Double Beam UV-Vis Spectrophotometer

The ALab™ SP-XUV5102 spectrophotometer. Image shown for reference.

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SECTION I

Product Overview

The ALab™ SP-XUV5102 is a touch screen xenon lamp double beam UV Vis spectrophotometer with a 10.1 inches high resolution TFT colored capacitive touch screen (1024*600) and a windows graphic interface, offering photometric measurement, quantitative measurement, kinetics, spectrum scan, DNA\Protein test and multi-wavelength test.

Wavelength range 190–1100 nm with 2.0nm spectral bandwidth; light source: Hamamatsu Xenon Lamp (Japan). Test data and working curves are saved in the in-house memory (up to 1024M) and exported through the USB port.

SECTION II

Core Advantages

- **Touch screen** — 10.1-inch, 1024×600
- **Optics** — double beam
- **Functions** — photometric, scan, kinetics
- **Range** — 190–1100 nm, 2.0nm
- **Light source** — xenon lamp
- **Data** — 1024M memory, USB

SECTION III

Specifications

Technical data — SP-XUV5102

Specifications	
Brand	ALab™ by ACS Material
Model	SP-XUV5102
SKU #	ALSPX200
Optical System	Double Beam
Wavelength Range	190–1100 nm
Spectral Bandwidth	2.0nm
Wavelength Accuracy	±0.1nm (at 656.1nm), ±0.3nm full range
Wavelength Repeatability	≤0.1nm
Photometric Accuracy	±0.002A(0–0.5A) ±0.003A(0.5A–1A)
Photometric Repeatability	±0.001A(0–0.5A) ±0.0015A(0.5A–1A)
Photometric Range	-0.3–3A, 0–9999C(0–9999F)
Stray Light	≤0.03%T @ 220,360nm
Stability	≤0.001A/h / 500 nm
Baseline Flatness	±0.001A
Noise	0.0005A@500nm
Work Mode	T, A, C, E
Scanning Speed	High | Medium | Slow
Wavelength Setting	Auto
Display	10.1-inch large color touch screen(1024×600)
Light Source	Hamamatsu Xenon Lamp (Japan)
Detector	Imported Silicon Photodiode
Cuvette Holder	Single hole 1cm holder (standard for double beam)
Output	USB Port, Printer Port
Power Requirements	110/220V, 50/60Hz, 120W
Dimension[L×W×H]	570mm×440×210mm
Weight	20kg

Accessories — SP-XUV5102

Accessories	
Item no.	**Description**
18901008	1mm(H)*10mm(W)*30mm(L) (for SP-UV3101/SP-UV3102/SP-XUV5101/SP-XUV5102)
18901009	Single hole 1cm holder (for SP-UV3101/SP-UV3102/SP-XUV5101/SP-XUV5102)
18901010	Single hole 5cm holder(1cm-10cm) (for SP-UV3101/SP-UV3102/SP-XUV5101/SP-XUV5102)
18902200	Automatic 8-position cell holder 1cm (for SP-UV3101/SP-UV3102/SP-XUV5101/SP-XUV5102)
18901509	Visible light precision filter 440, 546, 635nm (for full series)
18901510	UV-K2Cr2O7 235, 257, 313, 350nm (for full series)
18901511	HOMIUM 241, 361, 417, 538, 641nm (for full series)
18901512	Stray light filter 220nm (for full series)
18901513	Stray light filter 360nm (for full series)

Scope of delivery

- **Standard configuration**: 10mm glass cuvette x 4, 10mm quartz cuvette x 2, power cord, user's manual, PC software.
- **Listed accessories**: see the Accessories table for item numbers and descriptions.

SECTION IV

Applications

The SP-XUV5102 is listed with photometric measurement, quantitative measurement, kinetics, spectrum scan, DNA\Protein test and multi-wavelength test; optional accessories extend the application range for common samples and special ones.

Product value: a 10.1-inch capacitive touch screen with a windows graphic interface, 2.0nm spectral bandwidth, 1024M in-house memory, USB data transfer with export to Excel, and a range of optional accessories.

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