

NOVEL4S UV/VIS Touch Screen Scanning Spectrophotometer 190-1100nm

Product Details	
Product Number	PRO3144



Technical Specification:

Overview

The **NOVEL4S UV-VIS Spectrophotometer** combines an ARM-based processing core with advanced optics to deliver high-speed scanning and precision performance with Peltier system as a standard. Suitable for quantitative and qualitative analyses across ultraviolet and visible spectral ranges, it is ideal for use in medical, pharmaceutical, environmental, biochemical, and academic laboratories.

Its 7-inch full-color touch screen enables intuitive human-machine interaction and real-time data visualization. Optional USB and printer interfaces provide seamless data storage, report generation, and connectivity to COLO Spectrum software for further processing.

Main Features

- Automatic wavelength setting with fast positioning and high accuracy.
- 7-inch multi-color touch screen for clear data visualization.
- Sample compartment supports 5–100 mm cuvettes.
- Direct concentration readout and regression calculation.
- Optional built-in thermal printer and COLO Spectrum software.
- Automatic zeroing and full-scale adjustment.
- Advanced power-off memory for calibration and last measurement data.
- COLO Communication software to connect with computer
- Diffraction grating (1200 lines/mm), silicon photodiode detector
- Tungsten and deuterium lamps with lifetime protection (UV model only).

Technical Specifications

Optical System	Single beam; grating 1200 lines/mm; silicon photodiode detector
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Wavelength Range	190–1100 nm
Spectral Bandwidth	1.5 nm $\pm$ 0.3
Wavelength Accuracy	$\pm$ 0.3 nm
Wavelength Repeatability	0.3 nm $\pm$ 0.1nm
Wavelength Setting	Automatic
Photometric Range	0–200%T, –0.3–3.0 A, 0–9999 C
Photometric Accuracy	$\pm$ 0.3%T
Photometric Repeatability	0.2%T
Stability	$\pm$ 0.002 A/h @ 500 nm
Stray Light	$\leq$ 0.05%T @ 220 nm & 360 nm
Light Sources	Deuterium (D2) & Tungsten (W), independently switchable
Display	LCD, 320×240 px
Cell Holder	4-position changer (10 mm)
Data Output / Printer	USB port; parallel printer port
Memory	Stores up to 200 calibration curves
Dimensions (W×D×H)	623 × 432 × 204 mm
Weight	$\approx$ 28 kg
Power Supply	AC 220 V $\pm$ 22 V, 50 Hz $\pm$ 1 Hz

Accessories

Standard Accessories

- Operation manual ×1
- Glass cuvette (1 cm) ×4
- Quartz cuvette (1 cm) ×2
- Cuvette holder (10 mm, 4-position changer) ×1
- Protective cover ×1
- Power cable ×1; Fuses ×2
- PC connectivity software (USB)

Optional Accessories

- Adjustable micro-cuvette holder (for 1 micro cuvette)
- Cuvette holders for micro, 10 mm, 20 mm 50 mm and 100 mm pathlength (4-position)
- Peltier system
- Thermal printer

Accessories: