



IET | International Equipment Trading Ltd.
www.IetLtd.com | Proudly serving laboratories worldwide since 1979
CALL +847.913.0777 for Refurbished & Certified Lab Equipment

Shimadzu SPD-M20A **Specifications**

The SPD-M20A High Performance Liquid Chromatography PDA detector provides users with the most advanced level of sensitivity and stability found in today's PDA detectors. Sharing many of the qualities of the [SPD-20A/20AV UV-Vis Detectors](#), the SPD-M20A attains sensitivity levels approaching the most advanced UV-Vis detectors. It has a high-sensitivity mode with an 8 nm slit width. Using light-source compensation, it offers a noise level of 0.6×10^{-5} AU, which is comparable to that of traditional UV-VIS detectors.

Features

Greater Baseline Stability

Supplied as standard, a temperature-controlled flow cell eliminates inconsistencies caused by changes in absorbance due to shifts in room temperature. This helps increase the baseline stability and the analysis reliability.

Superior Linearity - 2.0AU

Using newly developed signal processing technology, the stray-light correction function has been enhanced, and the linearity has been improved. This expanded linearity combines with various noise-reduction technologies to provide users with a wide dynamic range and allow for the analysis of your target compound and minor impurities in a single run.

Web Browser Control

The SPD-M20A is equipped with an Ethernet interface and Web-control functions, allowing devices to be monitored and controlled from PCs in the network. As a standalone high-sensitivity multi-wavelength detector, it can be incorporated into non-Shimadzu HPLC systems.

Specifications

Light source	Deuterium (D2) lamp, tungsten (W) lamp
Number of diode elements	512
Wavelength range	190 to 800 nm

Bandwidth, slit width	1.2 nm (high-resolution mode), 8 nm (high-sensitivity mode)
Wavelength accuracy	1 nm max.
Wavelength precision	0.1 nm max
Noise	0.6×10^{-5} AU (under specified conditions)
Drift	5×10^{-4} AU/h (under specified conditions)
Linearity	2.0 AU (ASTM standard)
Functions	Contour output, spectrum library, MAX plotting
Cell	Optical wavelength: 10 mm, capacity: 10 μ L, withstand pressure: 12 MPa
Cell temperature-control range	5°C above room temperature to 50°C
Web control	Parameter setting, log management, management of consumable parts, etc.
Buffer memory	Approx. 20 minutes of data in the entire wavelength region (only when using LCsolution)
Operating temperature range	4°C to 35°C
Dimensions, weight	260 (W) x 140 (H) x 420 (D) mm, 12 kg
Power requirements	100 VAC, 150 VA, 50/60 Hz



www.IetLtd.com Proudly serving laboratories worldwide since 1979
 CALL +847.913.0777 for Refurbished & Certified Lab Equipment