

Multi-wavelength UV/VIS Detector

UV-2077



The Model UV-2077 is a multi-wavelength UV/VIS detector based upon a photo-diode array detection system. The state-of-the-art optics and electronics are housed in the same compact case as other LC-2000Plus series detectors including the UV-2070. The UV-2077 has a unique design feature that separates it from both conventional detectors which employ scanning/readout shift registers or incorporates a 36-element discrete diode-array, enabling truly simultaneous 36-channel detection in real-time with maximum sensitivity and selectivity. This configuration allows simultaneous monitoring of chromatograms at 4 different wavelengths or 3 wavelengths and a ratio of 2 others. The advanced computer technology allows the wavelengths to be selected in 1nm increments. In addition the detector is able to acquire spectra truly on-the-fly without interrupting the chromatogram. The UV-2077 allows the analyst to obtain the high quality chromatographic and spectral data of an expensive PDA detector in an affordable, compact and easy to use package.

The UV-2077 can easily be interfaced with the JASCO HPLC system using the JASCO chromatography data systems. These packages offer full automation of all JASCO HPLC components including the UV-2077.

- Significantly lowered baseline noise and drift due to unique electronics and optics
- Uninterrupted chromatographic peaks and on-flow spectral collection utilizing single beam photometry
- Compact 150 (W) x 150 (H) x 470 (D)mm size matching other LC-2000Plus Series modules



SPECIFICATIONS

Optical system

Photometric system: Flat field type polychromator with concave grating

Wavelength range: 200 ~ 600 nm, settable in 1 nm increment

Wavelength accuracy: ± 7 nm

Light source: Deuterium lamp

Photometric system

Photometric method: Single beam photometry

Detector: 36 elements photodiode

Noise level: $\pm 1.0 \times 10^{-5}$ ABU at 250 nm with empty cell (based on ASTM method)

Drift: $\pm 5 \times 10^{-4}$ ABU/h

Response: 3 steps (FAST, STD and SLOW)

Flow through cell

Mounting: Front loading cassette type with bulkhead union

Flow cell: Tapered cell

Signal input/output

Analog outputs: 4 channel independent outputs; from no. 1 to no. 3 channels for absorbance output, no. 4 channel; absorbance or ratio output, selectable

Output to recorder: 10 mV/full scale

Output to integrator: 1V/AU, 0.2V/0.2AU, 1V/2AU

Others: Maker output/input, Autozero input, LC-NET output/input, Program reset/run, Leak out

Self-diagnostics

For starting up: START UP, RAM, ROM, ± 5 V, ± 12 V, ADC CHK RUNNING, LEAK IN CELL, D2 LAMP OFF, TIME OFF

Program function

FTime program: Wavelength, range, auto zero, baseline correction, response, spectrum measurement

(0.1 min increment, up to 999.9 min, 64 steps)

Spectral memory: up to 32 spectra can be stored

Auto lamp off: Settable in 0 ~ 99 hour, 0.1 hour increment

Others

Dimensions: 150 (W) x 470 (D) x 150 (H) mm

Weight: Approx. 9 kg

Power Input voltage: AC 100 ~ 240 V $\pm 10\%$, 50/60Hz

Power requirements: 100VA

ORDERING INFORMATION

6826-J002B	Model UV-2077	Multi-wavelength UV/VIS Detector
6824-J002B	Model UV-2070	UV/VIS Detector (~ 900 nm)
6825-J002B	Model UV-2075	UV/VIS Detector (~ 600 nm)
6832-J002B	Model MD-2015	Diode Array Detector (~ 900 nm)
6831-J002B	Model MD-2010	Diode Array Detector (~ 600 nm)
6829-J003B	Model FP-2020	Fluorescence Detector
6833-J002B	Model RI-2031	Refractive Index detector
6838-J002B	Model CD-2095	Circular Dichroism Detector
6837-J002B	Model OR-2090	Chiral Detector
6836-J002B	Model CL-2027	Chemiluminescence Detector
6818-J002B	Model PU-2080	HPLC Pump
6823-J003B	Model PU-2089	Quaternary HPLC Pump
6821-J002B	Model PU-2086	Semi-preparative HPLC Pump
6822-J002B	Model PU-2087	Preparative HPLC Pump
6819-J002B	Model PU-2080i	Bio-inert HPLC Pump
6823-J004B	Model PU-2089i	Bio-inert Quaternary HPLC Pump
6820-J002B	Model PU-2085	Semi-micro HPLC Pump
6828-J008B	Model AS-2059	Autosampler
6827-J005B	Model AS-2055	Autosampler
6827-J006B	Model AS-2057	Autosampler
6834-J002B	Model CO-2060	Column Oven
6835-J002B	Model CO-2065	Column Oven

STANDARD ACCESSORIES

Fuse	2 pcs
AC power cable	1 pc

● Specifications are subject to change without notice.



JASCO INTERNATIONAL CO., LTD.

4-21, Sennin-cho 2-chome, Hachioji, Tokyo 193-0835, Japan

Tel: +81-42-666-1322 Fax: +81-42-665-6512 Internet: <http://www.jascoint.co.jp/english/index.html>

Australia, China, Hong Kong, India, Indonesia, Iran, Korea, Malaysia, New Zealand,

Pakistan, Philippines, Russia, Singapore, South Africa, Taiwan, Thailand

JASCO INCORPORATED

8649 Commerce Drive, Easton, Maryland 21601-9903, U.S.A

Tel: +1-800-333-5272 Tel: +1-410-822-1220 Fax: +1-410-822-7526 Internet: <http://www.jascoinc.com>

Canada, Costa Rica, Mexico, Puerto Rico, Argentina, Brazil, Chile, Colombia, Paraguay, Peru, Uruguay

JASCO EUROPE s.r.l.

Via Confalonieri 25, 23894 Cremella (Lc), Italy

Tel: +39-039-956439 Fax: +39-039-958642 www.jasco-europe.com

JASCO Deutschland www.jasco.de, **JASCO UK** www.jasco.co.uk, **JASCO France** www.jascofrance.fr,

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JASCO Corporation

2967-5, Ishikawa-cho, Hachioji, Tokyo 192-8537, Japan
<http://www.jasco.co.jp>

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