

AZURA UVD 2.1L UV/VIS Detector

The AZURA UV/VIS Detector UVD 2.1L is a competitively priced HPLC spectrophotometer for routine HPLC applications including fast LC methods. Besides offering excellent technical specifications, this robust detector features a highly flexible and compact design.

The UVD 2.1L comes with an installed deuterium lamp which covers a wavelength range from 190 to 750 nm. This detector can be controlled with OpenLab® EZChrom, ChromGate and ClarityChrom software, as well as from an optional touch display (stand-alone operation), via LAN or through analog input/output; allowing it to be integrated into almost any LC system.



Due to a smart design the flow cell is easily accessible and can be changed very quickly. A wide range of flow cells for analytical or preparative LC applications with flow rates from 10 µl/min up to 10 l/min is available.

A fiber-optic version offers the possibility to separate the flow cell spatially from the device thus providing enhanced security for hazardous, explosive or toxic work processes.

Key features

- Variable single wavelength
- Large choice of flow cells
- Wavelength range from 190 - 750 nm
- Flow rates from 10 µl/min. up to 10 l/min.
- Optional touch display available
- Leak management
- Allows measurements in hazardous, explosive or toxic environments (fiber optic version)

Specifications

(All technical data is subject to change without notice.)

Detection	
Detector type	Variable single wavelength UV/VIS detector
Detection channels	1
Light source	Deuterium (D ₂) lamp with integrated GLP chip
Wavelength range	190 - 750 nm
Spectral bandwidth	11 nm at H _α line (FWHM)

AZURA UVD 2.1L UV/VIS Detector

Wavelength accuracy	± 2.5 nm
Wavelength precision	0.3 nm (ASTM E275-93)
Noise	± 1.5 × 10 ⁻⁵ AU at 254 nm (ASTM E1657-98)
Drift	3.0 × 10 ⁻⁴ AU/h at 254 nm (ASTM E1657-98)
Linearity	> 2.0 AU at 270 nm (ASTM E1657-98)
Time constants	0.0 / 0.1 / 0.2 / 0.5 / 1.0 / 2.0 / 5.0 / 10.0 s
Flow cell	Not included (see Accessories / Spare parts)
Integration time	Automatic
Communication	
Maximum data rate	50 Hz (LAN) 20 Hz (Analog)
Inputs	Error (IN), Start (IN), Autozero, 0 - 10 V Analog IN
Outputs	Events 1 - 3, + 5 V, 24 V Valve
Analog outputs	1 × 0 - 5 V scalable, 20 bit, offset adjustable
Control	Digital: LAN-DHCP, remote connector Analog: wavelength control Manual: Mobile Control or Control Unit (optional)
Programming	Timed: wavelength, events, fraction valve, links, wake up (program, link); 9 programs, 50 program lines
Technical parameters	
GLP	Detailed report including lamp recognition, operating hours, lamp operating hours, number of lamp ignitions
Display	Mobile Control or Control Unit (optional)
Ambient conditions	Temperature range: 4 - 40 °C, 39.2 - 104 °F Humidity: below 90 % non-condensing
General	
Power supply	100 - 240 V, 50 - 60 Hz, 75 W
Dimensions	361 x 158 x 523 mm (W x H x D)
Weight	5.9 kg
Leak sensor	Yes
Flowcells	
Flow cells are not included and must be ordered separately (see below)	

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Analytical Flow Cells	
A4061	10 mm path, 1/16" connections, 10 µL, stainless steel, max. flow 20, max. pressure 300 bar
A4042	3 mm path, 1/16" connections, 2 µL, stainless steel, max. flow 50, max. pressure 300 bar
A4045	3 mm path, 1/16" connections, 2 µL, PEEK, max. flow 50, max. pressure 30 bar
Preparative Flow Cells	
A4066	0.5 / 1.25 / 2 mm path, 1/8" connections, stainless steel, max. flow 1000, max. pressure 200 bar (Cell volumes for adjustable cells are: 0.50 mm = 1.7 µL; 1.25 mm = 4.3 µL; 2.00 mm = 6.8 µL.)
A4068	0.5 / 1.25 / 2 mm path, 1/4" connections, stainless steel, max. flow 10000, max. pressure 200 bar. (Cell volumes: see above.)
A4067	0.5 / 1.25 / 2 mm path, 1/8" connections, PEEK, max. flow 1000, max. pressure 100 bar. (Cell volumes: see above.)
A4069	0.5 mm path, 1/16" connections, stainless steel, max. flow 250, max. pressure 200 bar
A4095	0.5 mm path, 1/16" connections, PEEK, max. flow 250, max. pressure 100 bar
Analytical flow cells with double fiber optical connection	
A4074	10 mm path, 1/16" connections, 10 µL, stainless steel, max. flow 20, max. pressure 300 bar
A4044	3 mm path, 1/16" connections, 2 µL, stainless steel, max. flow 50, max. pressure 300 bar
A4047	3 mm path, 1/16" connections, 2 µL, PEEK, max. flow 50, max. pressure 30 bar
A4077	3 mm path, 1/16" connections, 0.7 µL, PEEK, max. flow 10, max. pressure 30 bar

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Preparative flow cells with double fiber optical connection	
A4078	0.5 / 1.25 / 2 mm path, 1/8" connections, stainless steel, max. flow 1000, max. pressure 200 bar (Cell volumes: see above.)
A4079	0.5 / 1.25 / 2 mm path, 1/8" connections, PEEK, max. flow 1000, max. pressure 100 bar (Cell volumes: see above.)
A4081	0.5 / 1.25 / 2 mm path, 1/4" connections, stainless steel, max. flow 10000, max. pressure 200 bar (Cell volumes: see above.)
A4089	0.5 mm path, 1/16" connections, stainless steel, max. flow 250, max. pressure 200 bar
A4096	0.5 mm path, 1/16" connections, PEEK, max. flow 250, max. pressure 100 bar

Product Details

ADA01XA	AZURA UVD 2.1L variable single wavelength UV/VIS Detector, 190 - 750 nm, without flow cell
ADA04XA	AZURA UVD 2.1L variable single wavelength UV/VIS Detector, 190 - 750 nm, for fiber-optic connections, without flow cell.