

UV/VIS detectors

AZURA UV/VIS Detector UVD 2.1L

Variable single wavelength

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 Edition and ClarityChrom® software, as well as from an optional control unit with touch display (stand-alone operation), via LAN, via RS-232, or through analog input/output. Due to a smart design the flow cell is easily accessible and can be changed very quickly.

You can choose between a wide range of flow cells for analytical or preparative LC applications with flow rates from 10 µl/min up to 10 l/min.



Detection

Detector type	variable single wavelength UV/VIS detector
Detection channels	1
Light source	deuterium (D2) lamp with integrated GLP chip
Wavelength range	190 - 750 nm
Spectral bandwidth	11 nm at H α line (FWHM)
Wavelength accuracy	± 2.5 nm
Wavelength precision	0.3 nm (ASTM E1657-98)
Noise	± 1.5 x 10 ⁻⁵ AU at 254 nm (ASTM E1657-98)
Drift	3.0 x 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, Analog) 10 Hz (RS-232)
Inputs	Error (IN), Start (IN), Autozero, 1 - 10 V Analog IN
Outputs	Events 1 - 3, + 5 V, 24 V Valve
Analog outputs	1 x 0 - 5 V scalable, 16 bit, offset adjustable
Control	digital: LAN-DHCP, RS-232, remote connector analog: wavelength control manual: control unit (optional)
Programming	timed: wavelength, events, fraction valve, links, wake up (program, link); 19 programs, 99 program lines

Technical parameters

GLP	detailed report including lamp recognition, operating hours, lamp operating hours, number of lamp ignitions
Display	optional control unit
Ambient conditions	temperature range: 4 - 40 °C, 39.2 - 104 °F humidity: below 90 % noncondensing

General

Power supply	100 - 240 V, 50 - 60 Hz, 70 W
Dimensions	361 x 158 x 523 mm (W x H x D)
Weight	5.9 kg
Leak sensor	yes

Ordering details:

ADA01XA	AZURA UV/VIS Detector UVD 2.1L 190 - 750 nm, variable single wavelength UV/VIS detector
ADA04XA	AZURA UV/VIS Detector UVD 2.1L fiber optics 190 - 750 nm, variable single wavelength UV/VIS detector
A4061XB	Analytical flow cell UV 10 mm path length, 1/16", 10 µl volume, 1.1 mm ID
A4042	Analytical flow cell UV 3 mm path length, 1/16", 2 µl volume, 1 mm ID.
A5193	Deuterium lamp for AZURA UVD 2.1S, UVD 2.1L and Smartline 2520 detectors
A4126	Test cell, holmium oxid filter
A4146	Test cell, WG280 filter, stray light
A4123	Test cell