

## AZURA® Detector UVD 2.1L

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.

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.



### Specifications

#### Detection

<b>Detector type</b>	Variable single wavelength UV detector
<b>Detection channels</b>	1
<b>Light source</b>	Deuterium (D <sup>2</sup> ) lamp with integrated GLP chip
<b>Wavelength range</b>	190 - 750 nm
<b>Spectral bandwidth</b>	11 nm at H <sub>α</sub> line (FWHM)
<b>Wavelength accuracy</b>	± 2.5 nm
<b>Wavelength precision</b>	0.3 nm (ASTM E275-93)
<b>Noise</b>	± 15 µAU at 254 nm (ASTM E1657-98)
<b>Drift</b>	300 µAU/h at 254 nm (ASTM E1657-98)
<b>Linearity</b>	> 2.0 AU at 274 nm (ASTM E1657-98)
<b>Maximum data rate</b>	50 Hz (LAN)/20 Hz (Analog)
<b>Flow cell</b>	Not included (see Accessories / Spare parts)
<b>Time constants</b>	0.0 / 0.1 / 0.2 / 0.5 / 1.0 / 2.0 / 5.0 / 10.0 s
<b>Integration time</b>	Automatic
<b>Leak sensor</b>	Yes

#### Communication

<b>Inputs</b>	Error (IN), Start (IN), Autozero, 0 - 10 V Analog IN
<b>Outputs</b>	Events 1 - 3, + 5 V, 24 V Valve
<b>Analog outputs</b>	1 x 0 - 5 V scalable, 20 bit, offset adjustable
<b>Control</b>	Digital: LAN, remote connector/Analog: wavelength control/Manual: Mobile Control (optional)
<b>Programming</b>	Timed: wavelength, events, fraction valve, links, wake up (program, link); 9 programs, 50 program lines

#### Technical parameters

<b>GLP</b>	Detailed report including lamp recognition, operating hours, lamp operating hours, number of lamp ignitions
<b>Display</b>	Mobile Control (optional)
<b>Ambient conditions</b>	Temperature range: 4 - 40 °C, 39.2 - 104 °F, Humidity: below 90 % noncondensing

#### General

<b>Power supply</b>	100 - 240 V, 50 - 60 Hz, 65 W
<b>Dimensions</b>	361 x 158 x 523 mm (W x H x D)
<b>Weight</b>	5.9 kg

### Key features

- Large choice of flow cells
- Leak management
- 55 years experience
- Made in Germany



KNAUER offers various software control options:  
[www.knauer.net/softwarecontrol](http://www.knauer.net/softwarecontrol)



For detector accessories  
 see p. 42

## Ordering details:

### Device

ADA01XA	AZURA® Detector UVD 2.1L with deuterium lamp without flow cell, incl. test cell
ADA04XA	AZURA® Detector UVD 2.1L Fiber Optics Version with deuterium lamp without flow cell

### Accessories

A4061XB	10 mm path length, 10 µl, 1/16", 300 bar, stainless steel, with heat exchanger one sided inlet and outlet, classical KNAUER flow cell
A4042	3 mm path length, 2 µl, 1/16", stainless steel, classical KNAUER flow cell
A5193	Deuterium lamp, replacement, for S25 20, 10D, 40D, UVD 2.1S, UVD 2.1L, DAD 2.1L, MWD 2.1L
A4126	Test cell Holmium Oxid Filter
A4146	Test cell, WG 280 filter stray light
A4123	Test cell

## AZURA® Detector UVD 2.1S

The AZURA® UVD 2.1S is a highly competitive single variable wavelength UV detector for HPLC. It offers excellent technical specifications for routine laboratory work. With its small footprint, it is one of the smallest detectors for HPLC on the market.

The UVD 2.1S comes in the novel small AZURA® housing. The installed deuterium lamp covers a wavelength range from 190 to 500 nm. The UV detector can be controlled with OpenLab EZChrom Edition®, ChromGate®, PurityChrom Bio and ClarityChrom® software, as well as from the front panel (stand-alone operation), via LAN, via RS-232, 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. 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.

Also available as a module for the new AZURA® ASM 2.2L.

### Specifications

#### Detection

<b>Detector type</b>	Variable single wavelength UV detector
<b>Detection channels</b>	1
<b>Light source</b>	Deuterium (D <sup>2</sup> ) lamp with integrated GLP chip
<b>Wavelength range</b>	190 - 500 nm
<b>Spectral bandwidth</b>	13 nm at H <sub>α</sub> line (FWHM)
<b>Wavelength accuracy</b>	± 3 nm
<b>Wavelength precision</b>	0.7 nm (ASTM E275-93)
<b>Noise</b>	± 20 µAU at 254 nm (ASTM E1657-98)
<b>Drift</b>	300 µAU/h at 254 nm (ASTM E1657-98)
<b>Linearity</b>	> 2.0 AU at 274 nm (ASTM E1657-98)
<b>Maximum data rate</b>	50 Hz (LAN)/20 Hz (Analog)/10 Hz (RS-232)
<b>Flow cell</b>	Not included (see Accessories / Spare parts)
<b>Time constants</b>	0.00 / 0.02 / 0.05 / 0.1 / 0.2 / 0.5 / 1.0 / 2.0 s
<b>Integration time</b>	Automatic



### Key features

- Compact
- Large choice of flow cells
- 55 years experience
- Made in Germany



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