

## Liquid Chromatography

## Flexar PDA Plus Detector



The PerkinElmer® Flexar™ PDA Plus™ detector is an advanced photo diode array detector (PDA) with the high sensitivity required for today's stringent regulatory environment. PDA Plus has the widest detection range, a very low baseline noise (spec. < 8  $\mu$ AU), an unparalleled wavelength accuracy ( $\pm 0.5$  nm), and a superior data acquisition rate (up to 200 Hz) unmatched by any PDA detector on the market. These features give the PDA Plus detector outstanding scan capabilities to deliver powerful displays of 2D and 3D chromatographic information through PerkinElmer Chromera®, Totalchrom®.

**Key Features**

- Very low baseline noise (spec. < 8  $\mu$ AU) providing high sensitivity
- Unparalleled wavelength accuracy of  $\pm 0.5$  nm providing accurate and reliable results
- Superior data acquisition of up to 200 Hz suitable for fast and slow eluting peaks
- Flow cells with very low dispersion capable of sustaining a 1500 psi back pressure, making this detector particularly suitable for tandem use with other detectors as has become customary in today's laboratory
- Effortless "one-motion" installation of a variety of modular flow cells for adjustable sensitivity, providing detection at an exceptionally wide concentration range

## OPERATING SPECIFICATIONS

Wavelength range	190 – 790 nm
Wavelength accuracy	± 0.5 nm
Optical resolution	4 nm
Photodiodes	1024
Digital resolution	0.6 nm
Linearity range	<3% at 2 AU
Baseline noise	<8 µAU
Drift	<0.5 mAU/hr
Data acquisition	0.5 - 200 Hz

## OPTICAL COMPONENTS

Light source warranty	Deuterium 1000 hr lamp
Flow cell design	Liquid core waveguide
Path length	10 or 50 mm
Cell volume	1 or 5 µl
Pressure limit	1500 psi
Wetted materials	Fused silica, PEEK, PTFE AF

## ELECTRICAL

Power requirements	100 to 230 ± 10% VAC, 50/60 Hz, 140 VA
Line frequency	50/60 Hz
Power consumption	140 VA
Outputs	TCP/IP, RS-232, 0 – 0.1 & 0 – 1 V analog

## PHYSICAL AND ENVIRONMENTAL

Sizes	Width: 31.8 cm (12.5 in) Height: 16.5 cm (6.5 in) Depth: 55.5 cm (21.3 in)
Weight	15.5 kg (34.1 lb)
Operating temperature	10 – 35 °C (50 to 95 °F)
Operating humidity	20 – 80% RH, with no condensation

## ORDERING INFORMATION

## CATALOG NUMBER

PDA plus (10 mm flow cell included)	N2950010
50 mm path length flow cell	N2950455
10 mm path length flow cell	N2950450

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