

FLASH 14 DAD 800 DETECTOR



is an UV-VIS diode array detector, which allows measuring absorbance of **four wavelengths simultaneously in one cell** just as measuring of **whole spectrum (scan)**. This unit is used in liquid chromatography to **verify analyzed samples** by means of four wavelengths or in situations when some **peaks absorb on different wavelengths**. It is possible to use the detector in **flash and preparative** applications.

The unit is designed **as stand-alone with 90-264 V power supply and RS232 controlling. The unit DAD (diode array detector) design offers many advantages:**

- **Continuous 5 Hz scan** or absorbance measuring **on four wavelengths simultaneously**
- Wavelength setting **from 190 up to 840 nm** in increments of 1nm

- Lamp work hours are counted **using the built-in counter. Lamp is easy exchangeable from front panel**
- **Clarity PDA module support for 3D measurement**
- **Cell is easy to handle** from front panel
- **Powering by 90-264 V**
- Unit is controlled by RS232 interface

SPECIFICATION

TECHNICAL PARAMETERS:

Wavelength range (four wavelengths simultaneously)	190 - 840 nm (256 elements on CCD)
Scan	200 - 800 nm, 5 Hz, step 3 nm
Typical spectral half-width	10 nm
Accuracy of adjustment	± 1 nm
Reproducibility	± 0.5 nm
Light source	Deuterium discharge lamp and halogen lamp
Noise level at test cell (254 nm, TC 0.75 s)	± 5 x 10 ⁻⁵ AU
Drift at test cell (254 nm after 1 h)	1 x 10 ⁻³ AU/hr
Materials in contact with mobile phase	PTFE; fused silica, stainless steel
Time constant (T90)	0.5 s; 0.75 s; 1 s or 2 s (T63 0.3s;0.4s;0.6s;1s)
Output for integrator	1 V/AU (in digital form only)
Interface	RS232
Power supply	90-264 V
Power input	90 VA
Dimensions (W x H x D)	280 x 130 x 463 mm (11.02 x 5.12 x 18.23 in)
Weight	9 kg (19.84 lb)

PREPARATIVE CELL PLCC 15 (SUPPLIED WITH UNIT)

volume/optical path (adjustable)	45 µl / 0.3 mm; 55 µl / 1.4 mm; 70 µl / 2.4 mm
Cell connecting	tubing with OD = 1/8", thread 1/4"-28
Maximal flow rate	500 ml/min