



SAPPHIRE 800 EX Detector with optical connectors

P/N 67EX000000

is a detector with continuously variable wavelength in the range of **190 – 800 nm** and a noise level $\pm 0.5 \times 10^{-5}$ AU.

Cell is installed out of unit and it is connected to the unit using fiber optic cable with **SMA connectors**.

It is possible connect the detector to a cell for ITP or with cell PLCC 20 use it for **preparative or flash chromatography**.

The unit is easy to operate; **reference and sample signals** are available for detector **diagnostics** as well as information on **lamp operating hours**.

Output signal is available in both **digital and analogue form** on the output connector. It is possible to **control the unit using the keypad or an RS232 interface**.

The detector is equipped with a high standard **deuterium lamp and tungsten lamp** in a special socket that enables **easy changing**. Wavelength can be **programmatically changed** during the performance of an analysis. The detector **performs automatic wavelength calibration** after the lamp has been switched on.

Cell and fiber optic cable are not include.

Specification

Wavelength range	190 - 800 nm
Spectral half-width	6 nm
Accuracy of adjustment	± 1 nm
Reproducibility	± 0.5 nm
Light source	Deuterium discharge lamp and tungsten lamp
Noise level at empty cell (240 nm, TC 1 s)	$\pm 0,5 \times 10^{-5}$ AU
Drift at empty cell (240 nm after 1 h)	1×10^{-4} AU/hr
Output and input optical connector	SMA
Time constant	Fast, middle and slow
Programming	3 change of wavelength during analysis
Adjustable offset	± 50 mV
Output for integrator	1 V/AU
Interface	RS 232
Power supply	100, 115 and 230, 50/ 60 Hz)
Power input	80 VA
Dimensions (W x H x D)	220 x 170 x 450 mm
Weight	11 kg

Ecom cell used with unit

Preparative cell PLCC 20 (optionally)

Optical path – Basic continuously changeable	0.1 to 1.5 mm
Discontinuous changes of basic optical path	+1 and +2 mm
Connecting thread of inlet nipple	NPT 1/4"-18
Internal cell diameter	8 mm
Maximum flow rate	15 l/min by pressure 0,5 MPa

