

LED20G

SINGLE UV DETECTOR DUAL UV DETECTOR



are **OEM UV detectors** suited for **preparative and flash chromatography**, which thanks unique **ECOM patented technology**, radically improves features of detectors which use **LED diodes as source of light spectra**.

Usually LED diodes itself have peak wavelength with tolerance +/- 5 nm and spectral half width 10 – 20 nm, which is for some application not acceptable. But ECOM solution allows to **narrow down spectral bandwidth and to choose exact wavelength from LED diodes spectra**. It is offered in two versions as follows:

Single UV detector version measures at **one fix wavelength** which is given by installed LED diode.

Dual UV detector version measures at **two fix wavelengths** which are adjusted in production which is given by installed LED diode.

The unit is controlled with **ESTER20 PCB** board which powers the LED diodes and controls the unit. It has lot of new function including higher speed sampling.

Most important features of LED20G detectors:

- **narrowed down spectral halfwidth compared with classical LED detectors**
- **exact wavelength compared with classical LED detectors**
- **small dimensions**
- **low cell heating thanks LED diodes low power supply**
- **easy flow cell replacement**
- **sophisticated diagnostic software**

SPECIFICATION

	LED20G Single UV Detector	LED20G Dual UV Detector
Part number	LEG0210X	LEG0220X
Wavelength range	on request	on request
Number of channels (Signals)	One fix wavelength	Two fix wavelengths
Typical spectral half-width	± 4 – 8 nm (depending on chosen LEDs)	
Diode peak wavelength	depending on chosen LEDs	
Noise level at test cell (254 nm, TC 0.75s)	± 5 – 10x10 ⁻⁵ AU (depending on chosen LEDs)	
Drift at test cell (after 1 h)	1x10 ⁻³ AU/hr	
Materials in contact with mobile phase	FEP; fused silica, stainless steel (cell)	
Interface	I/O Interface	
Power supply	12-24 V DC	
Power input	10 W	
Dimensions (W x H x D)	70 x 57 x 190 mm (2.76 x 2.24 x 7.48 in)	
Weight	0.66 kg (2.20 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. (3 000 ml/min. with PLCC 3L)

DUE TO THE CONSTANT DEVELOPMENT OF THE DETECTOR, SOME DATA MAY CHANGE.