

SAPPHIRE 800 CE

Detector for Capillary Electrophoresis

P/N 67CE000000



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.

This detector version is equipped with cell suited for capillaries electrophoresis. **Cell is installed on the front panel of the unit** and it is connected to the monochromator using fiber optic.

The quartz capillary is simply changed by preamplifier removing.

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 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.

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
Diameter of used Fused Silica Capillary Tubing	ID 0.1/OD0.363
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

Capillary inserting

