ECOM
HPLC FROM PRAGUE

P/N T20V033X

TOY20DAD 800 V

SCANNING UV-VIS DETECTOR

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

It is possible to control the detector **manually by keyboard and display** but also using **RS232**, **USB** or **LAN**. On the rear panel are available **four analog outputs** and connector for **I/O logical input and output** signals.

The unit's DAD (diode array detector) design offers many advantages:

- absorbance measuring **on four wavelengths simultaneously**
- wavelength setting in increments of 1nm
- **on line scan of whole spectrum with speed up to 20 Hz which allows to create 3D picture**
- lamp work hours are counted **using the built-in counter** for both deuterium and halogen lamps
- **the cell is easy to replace** from the side of the detector
- powering by 100-240 V AC
- unit can be controlled by **RS232**, **USB**, **LAN** or keyboard
- **signals are available in analog and digital form**
- **easy service and diagnostic** using display and keyboard or by service SW

SPECIFICATION

	TOY20DAD800 V Scanning
Part number	**T20V033X**
Wavelength range	190 - 800 nm (256 elements on CCD)
Number of channels (Signals)	4
Scan	190 – 800 nm, 20 Hz, step 1 nm
Typical spectral half-width	10 nm
Accuracy of an adjustment / Reproducibility	± 1 nm / ± 0.5 nm
Noise level at test cell (254 nm, TC 1s)	$\pm 5 \times 10^{-5}$ AU
Drift at test cell (254 nm after 1 h)	1×10^{-3} AU/hr.
Materials in contact with mobile phase	FEP, fused silica, stainless steel, PEEK
Time constant	0.5 s, 0.75 s, 1.0 s, 2.0 s, 4.0 s, 8.0 s, 16.0 s, 0.2 s, 0.1 s
Light source	D2+Halogen lamp
Ranges of four adjustable 1V analog outputs	5; 2; 1; 0.5; 0.2; 0.1 AU/V
Digital output	1 V/AU
Interface	RS232, LAN, USB, Analog output 4x
Power supply	100-240 V AC
Power input	100 VA
Dimensions (W x H x D)	135 x 170 x 340 mm (5.32 x 6.69 x 13.39 in)
Weight	4.4 kg (9.7 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
Flow-cell connecting	tubing with OD = 1/8", thread 1/4"-28
Maximal flow rate	500 ml/min. (3 000 ml/min. with PLCC 3L)

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