

# TOY18DAD HK

## TWO CHANNEL UV DETECTOR FOUR CHANNEL UV DETECTOR SCANNING UV DETECTOR



is a standalone UV-VIS diode array detector suited for preparative and flash chromatography in range **200 – 800 nm**. It is offered in the following versions:

**Two Channel** version measures at **two wavelengths simultaneously** with possibility to see current scan.

**Four Channel** version measures at **four wavelengths simultaneously** with possibility to see current scan.

**Scanning** version measures at **four wavelengths simultaneously** or **sends scan with speed 20 Hz** which allows to create **3D picture**.

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**.

At the back 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**
- **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 front of the detector
- **signals are available in analog and digital form**
- **easy service and diagnostic** using display and keyboard or by service SW

### SPECIFICATION

	TOY18DAD 800 HK Two Channel UV Detector	TOY18DAD 800 HK Four Channel UV Detector	TOY18DAD 800 HK Scanning UV Detector
Part Number	TOYHK03Y	TOYHK13Y	TOYHK33Y
Wavelength range	200 – 800 nm (256 elements on CCD)		
Number of channels (Signals)	2	4	4
Scan	Informative 200 – 800 nm	Informative 200 – 800 nm	200 - 800 nm, 20 Hz, step 1 nm
Typical spectral half-width	10 nm		
Accuracy of adjustment / Reproducibility	± 1 nm / ±0.5 nm		
Noise level at test cell (254 nm, TC 0.75s)	± 5 x 10 <sup>-5</sup> AU		
Drift at test cell (254 nm after 1 h)	1 x 10 <sup>-3</sup> AU/hr		
Materials in contact with mobile phase	FEP; fused silica, stainless steel, PEEK, KEL-F		
Time constant (T63)	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		
Output signal	Four wl. (channels) or scan with speed up to 20 Hz with step of 1 nm		
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, USB, LAN		

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Power supply	100-240 V AC
Power input	100 VA
Dimensions (W x H x D)	280 x 135 x 498 mm (11.02 x 5.32 x 19.61 in)
Weight	7.5 kg (16.53 lb)

## PREPARATIVE CELL PLCC 15L IN BRACKET (SUPPLIED WITH UNIT)

Volume / optical path	40 $\mu$ l / 0.3 mm
Cell connecting	tubing with OD = 1/8", thread 1/4"-28
Maximum flow rate	500 ml/min (3 000 ml/min with PLCC 3L)