

# S 3345 PDA DETECTOR

The **Sykam S 3345 UV/Vis Detector** is a photo-diode-array (PDA) detector for routine analysis and sophisticated research. The dual lamp design offers a wavelength range of 190 – 720 nm (256 Diodes) or 190 – 1015 nm (1024 diodes) with a low baseline noise. The front-accessible flowcell can easily be exchanged, as can be the lamps which are accessible through a side panel in the instrument housing.



## ■ 4-Channel UV Detector

The **S 3345 PDA Detector** features 4-Wavelength channels to measure chromatograms at 4 different wavelengths at the same time. With this feature the optimum wavelength can be selected for each analyzed substance.

## ■ Integrated Peak Detector

The integrated Peak Detector works as a basic fraction collector. The peak detection level can be freely programmed for peak start and peak end to enhance the collection purity. An integrated 24V output for switching a solenoid valve is used for the fraction collection, which is automatically operated with a selectable time delay.

## ■ Optional – Analog Output

The **S 3345 PDA Detector** is available with an optional 4-Channel analog output. This D/A converter output option is offered to keep the system flexible to be used with any data acquisition software available.

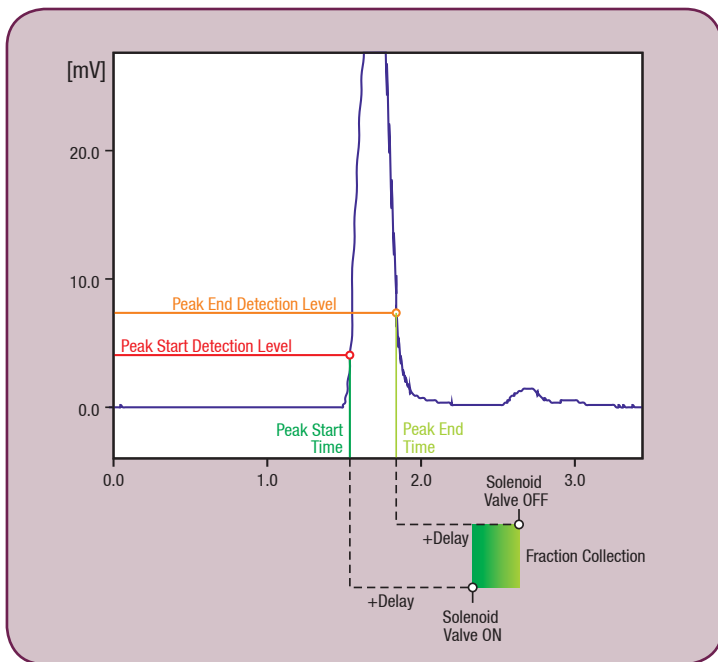


Figure: S 3345 Peak Detector

*S 3350 PDA Detector*

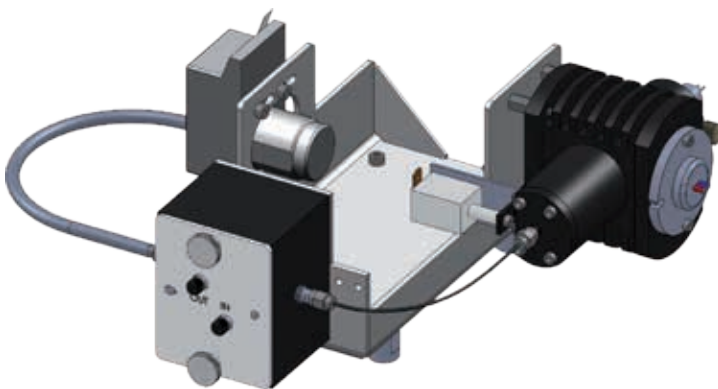


Figure: S 3345 Optical Module (256 Diodes)

## ■ Technical Specifications\*

|  |  |
|--|--|
| <b>Wetted Materials:</b>                       | Stainless Steel / PEEK*, Teflon, Glas                        |
| <b>Baseline Noise:</b>                         | $\pm 1 \times 10^{-5}$ AU (@240 nm, 1 sec. Risetime)         |
| <b>Baseline Drift:</b>                         | $<3 \times 10^{-4}$ AU/h                                     |
| <b>Number of Diodes:</b>                       | 256 or 1024  |
| <b>Wavelength Range:</b>                       | 190 – 720nm (256 diodes); 190 – 1015nm (1024 diodes)         |
| <b>Wavelength Accuracy:</b>                    | 0.5 nm (256 Diodes); 0.3 nm (1024 Diodes)                    |
| <b>Mean Pixel Pitch:</b>                       | 2.2 nm (256 Diodes), 0.8 nm (1024 Diodes)                    |
| <b>Resolution (<math>\lambda</math> FWHM):</b> | 7 nm (256 Diodes), 3 nm (1024 Diodes)                        |
| <b>Linearity:</b>                              | $> 2.0$ AU   |
| <b>Light Source</b>                            | Deuterium Lamp, Tungsten Lamp                                |
| <b>Wavelength Program:</b>                     | Programmable, 10 steps                                       |
| <b>Analog Output:</b>                          | - (optional: 4x 1V)  |
| <b>Data Rate:</b>                              | 1 Hz - 100 Hz  |
| <b>Control Features:</b>                       | Internal Peak Detector with +24 V solenoid switching output. |
| <b>Dimensions: (W x H x D)</b>                 | 310 x 165 x 478 mm   |
| <b>Power Supply:</b>                           | 100 - 250 ~V (47 - 63 Hz)                                    |

\* depending on configuration

## ■ Order Information

| Catalog No | Description                                   |
|------------|---|
| 10 31 020  | S 3345 PDA Detector - 256 Diodes              |
| 10 31 021  | S 3345 PDA Detector - 1024 Diodes             |
| 10 31 019  | option: 4-Channel Analog Output               |
| 10 32 015  | S 3345 Flowcell, analytical, Stainless Steel  |
| 10 32 016  | S 3345 Flowcell, analytical, PEEK             |
| 10 32 017  | S 3345 Flowcell, micro, Stainless Steel       |
| 10 32 018  | S 3345 Flowcell, micro, PEEK                  |
| 10 32 019  | S 3345 Flowcell, preparative, Stainless Steel |
| 10 32 020  | S 3345 Flowcell, preparative, PEEK            |
| 40 10 002  | Spare Deuterium Lamp                          |
| 40 10 012  | Spare Longlife Tungsten Lamp                  |

\* All technical specifications may be subject to change.

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