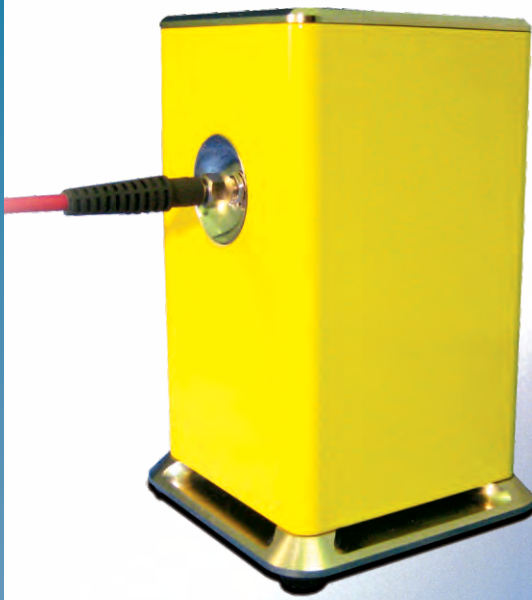


# Single Point Detector



Available with a wide range of detectors from Deep UV to Far IR

The Ocean Optics Single Point Detector is the ideal tool for high Signal-to-Noise, single point fiber optic and free-beam measurements.

At the heart of the Single Point Detector system is a low-noise re-amplifier circuit with a 24-bit A/D digital converter. The Single Point Detector can be customized with a range of detectors from Deep UV to the Far IR (200 nm - 14  $\mu$ m).

Our Single Point Detector can support cooled detectors. The electronics also support synchronization with external events. It can receive a trigger from external sources and also be triggered. The software controls also support user-programmed digital I/O.

This system can also be obtained with an optional filter holder so that the wavelength region of the measurements can be tuned to the region of interest.

The Ocean Optics Single Point Detector includes software and a software development kit for users who write their own applications.

## Highlights

- Included software and software development kit
- Software adjustable gain settings
- Several triggering modes supported
- Integrated temperature control for TE cooled detectors
- Low noise amplifier and 24 bit A/D converter
- Integrated dark level offset to increase dynamic range for high-background measurements

## Specifications

Bandwidth:	100 kHz
Trigger modes supported:	Internal and external with phase delay
Digital I/O:	4 TTL level I/Os
Digital Resolution:	24 bits to 17 bits (depending on sampling speed)
Sample speed:	7 Hz to 3 kHz
TE cooler controller:	Up to 3 stage cooler with 0.1 °C stability



## Ordering Info

Model	Detector	Wavelength
SPD-PYRO	Pyro-electric Packaged with electronics	8 $\mu$ m - 14 $\mu$ m
SPD-SIR-2600	Extended InGaAs with 3 stage cooler	900 nm - 2600 nm
SPD-SIR-3400	InAs with 3 stage cooler	1 $\mu$ m - 3.4 $\mu$ m
SPD-SIR-6500	MCT Photovoltaic with 3 stage cooler	3 $\mu$ m - 6.5 $\mu$ m
SPD-VIS	Hybrid Si-InGaAs	200 nm - 1100 nm