

# SEEPOS MEASUREMENT SYSTEM



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## Partner **SiTek**



SiTek Electro Optics AB is a leading Swedish manufacturer specializing in high-precision optical and photonic solutions, with a core focus on Position Sensing Detectors (PSDs). Their advanced photonic technologies are designed for demanding applications requiring exceptional accuracy in positioning, alignment, and measurement.

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### Product offering

**SEEPOS PSD signal processing tool - SiTek**





## Distance & Position Detectors > SEEPOS Measurement System

# SEEPOS PSD signal processing tool - SiTek

For most position measurement applications the SiTek SEEPOS system offers a complete and easy-to-use solution. High speed PSD electronics combined with digital signal processing and high speed USB data transfer gives a powerful measurement system. With its large dynamic range it can handle light powers from nW to mW from DC light sources as well as modulated light sources. All parameters, such as PSD bias voltage, amplifier gain, the use of analog and digital filters etc., are easily controlled from the included software and light spot position is continuously displayed both in XY and X-t, Y-t graphs. Optimized plot algorithms ensure that all data is visually seen on the screen even in full speed measurements. Included tools for data analysis and visualization simplify rapid scan through large data sets in order to find specific parts of interest.



## SEEPOS PSD signal processing tool features

- extremely versatile – all important parameters can be adjusted
- highest performance – 16 bit A/D conversion at 1 MHz and full speed USB data transfer
- user friendly – intuitive interface based on LabVIEW
- suitable for all users – easy set-up and advanced analyzing functions included
- PSD Holder MH01 and MHO2 (optional)

## PSDs in Mechanical Holder MH01

SiTek's high linearity PSDs are also available in a mechanical holder suitable for optical system setups. The mechanical holder MH01 has a size of only 52 x 52 mm<sup>2</sup> and the PSD is easily accessed via a DSUB9 connector. It is designed to fit  $\varnothing 1$ " filters as well as standard optomechanical components, such as posts and lens tubes. To minimize reflections it has a black anodized surface. The holder is available with SiTek's PSDs ranging from 2,5 – 20 mm (1D) and 2 x 2 – 20 x 20 mm<sup>2</sup> (2D). SiTek's UV-enhanced PSDs and PSDs with stray light elimination (NT) can be delivered mounted in the PSD mechanical holder upon request.

[holder MH01](#)

## PSDs in Mechanical Holder MH02

SiTek's high linearity PSDs are also available in a mechanical holder suitable for optical system setups. The mechanical holder MH02 has a size of 84 x 84 mm<sup>2</sup> and the PSD is easily accessed via a DSUB9 connector. It is designed to fit square 2" filters as well as standard optomechanical components, such as posts and cages stages. To minimize reflections it has a black anodized surface. The holder is available with SiTek's PSDs ranging from 30 – 60 mm (1D) and 20 x 20 – 45 x 45 mm<sup>2</sup> (2D). SiTek's UV-enhanced PSDs can be delivered mounted in the PSD mechanical holder upon

request.

[holder MH02](#)