

Silicon photodetector setup

Laser Noise Measurement

Monitor laser intensity fluctuations with an attenuated silicon-photodetector signal and oscilloscope. This is an optical-output noise setup, distinct from the STA-LFNT device-current noise system.

Measurement method

Attenuate the laser to a suitable detector input level, convert the optical fluctuations to an electrical signal and inspect the oscilloscope trace. Select gain and acquisition settings to examine the fluctuation level and output stability.

Features

- Low-noise, wide-band amplification
- Fixed- and adjustable-gain module options
- 0-10 V output
- SM1 and SM05 mechanical compatibility
- Linear power supply

Applications

- Laser intensity-noise monitoring
- Optical-output stability studies
- Comparison of operating conditions and noise traces

Published configuration

Parameter	Specification
Detector technology	Silicon photodetector
Amplifier	Low-noise, wide-band; fixed or adjustable gain module
Output range	0-10 V
Mechanical interface	SM1 thread; compatible SM05 products
Supply	Linear power supply
Readout	Oscilloscope after suitable optical attenuation

Conditions and configuration notes

The listing does not publish a numeric detector spectral range, gain, bandwidth or calibrated relative-intensity-noise floor. Confirm those values for the module instead of inferring them from another silicon detector.

Specify your measurement

- Laser wavelength and incident optical power
- Required electrical bandwidth and gain
- Oscilloscope impedance, sampling and noise-analysis method

Prepared by Precisometer. Technical review: 24 October 2026. Confirm the supplied configuration, measurement conditions, accessories and warranty with the quotation.

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