



SRS Detection Module

The SRS Detection Module was developed for imaging methods.

The integrated photodiode can be used for VIS and NIR light, for example from a Ti:Sapphire laser or Optical Parametric Oscillator.

A Lock-in Amplifier is integrated as well. The SRS Detection Module has a very short integration time. Therefore detection is fast and the module can be used for video rate imaging applications.

The SRS Detection Module is perfect for use with the *picoEmerald*™ S and has successfully been tested in low noise SRS.

- Highly sensitive in the VIS / NIR range
- Integration times down to below 100 ns
- Ideal tool for video rate imaging applications



Specifications

Frequency	8 ... 20 MHz
Amplification	- 4.5 ... 43.5 dB
Post amplifier	12 dB
Time constants	100 ns; 300 ns; 2 μ s; 10 μ s; 20 μ s
LIA-sync	100 mV ... 1 V @ 50 Ω
Phase	0 ... 337.5° in steps of 22.5°
Detector	
Wavelength range	340 ... 1100 nm
Peak sensitivity wavelength	960 nm
Maximum input power	50 mW @ 800 nm (unfocused)
Typical amplification	< 500 mV/ μ W

Options

- 1064 nm enhanced detector

Applications

- Coherent Raman Scattering microscopy (CARS and SRS)
- SRGOLD

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