

800 - 1700nm Biased InGaAs Free-Space Photodetector



Free-Space Photodetector Module

Stock #29-516 **3 In Stock**

- 1 +

£533^{.00}

ADD TO CART

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | £533.00 each |
| Qty 6-10 | £480.00 each |
| Need More? | Request Quote |

! Prices shown are exclusive of VAT/local taxes

Product Downloads

- [Spec Sheets:pdf](#)
- [EO Spec Sheet](#) [Download All](#)

General

Type: Biased InGaAs Photodetector

Rise Time (ns): 0.35

Physical & Mechanical Properties

Dimensions (mm): 58 x 59.5 x 24

Active Area (mm²): 0.01

Optical Properties

Wavelength Range (nm): 800 - 1700

Electrical

Noise Equivalent Power NEP (W/ Hz^{1/2}): 2.0x10⁻¹⁴

Bandwidth (Hz): 5*10⁹ (5 GHz)

Dark Current I_d (nA): 0.3(Typical); 2.5(Max)

Hardware & Interface Connectivity

Power Supply: 12V Battery (Not Included)

Environmental & Durability Factors

Operating Temperature (°C): 10 - 50

Regulatory Compliance

Certificate of Conformance: [View](#)

Product Details

- Compact Design for Easy System Integration
- Si or InGaAs Photodetectors Ranging from 200 - 1700nm
- Biased or Amplified Models Available

Free-Space Photodetector Modules feature biased or amplified Si diodes, or a high speed InGaAs diode that cover the UV, VIS, NIR, and SWIR spectra from 200 – 1700nm. These detectors provide fast rise times and bandwidths for immediate detection for pulsed lasers, the Si version features 1ns rise times and bandwidths up to 350MHz and the InGaAs detectors feature 350ps rise times and a 5GHz bandwidth. The amplified Si detectors provide rise times from 10 – 35ns and a built-in fixed gain, low-noise transimpedance amplifier allowing for measurement of weak or low power sources down to femtowatt levels. Free-Space Photodetector Modules feature a compact design for easy integration into space constrained systems, an M4 mounting thread for post mounting, and a detachable 1" diameter optic mount for integration of filters and lenses. These modules are ideal for monitoring fast pulsed lasers, modulated CW optical sources, and applications requiring free-space optical detection, such as LIDAR.

Note: The biased Si and InGaAs photodetector modules ([#29-514](#), [#29-515](#), and [#29-516](#)) require a 12V battery (not included) for power and operation. The amplified Si photodetector modules ([#29-517](#), and [#29-518](#)) require a ± 12 VDC power supply ([#29-519](#)), sold separately. When measuring high speed signals, a 50 Ω terminating resistor is recommended.

Accessories

Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

| | Title | Compare | Stock Number | Price | Buy |
|-----------------------|---|---------|-------------------------|--|---|
| MORE+ | 12V Power Supply for Amplified Photodetectors | | #29-519 | £112.00 Volume Pricing Request Quote | 1 In Stock <input type="text" value="1"/> |
| MORE+ | 1.5m Length, BNC to BNC Cable | | #72-130 | £33.00 Volume Pricing Request Quote | 5 In Stock <input type="text" value="1"/> |
| MORE+ | 1.5m Length, BNC to SMA Cable | | #72-131 | £33.00 Volume Pricing Request Quote | 1 In Stock <input type="text" value="1"/> |
| MORE+ | 50 Ω Fixed Male-to-Female BNC Terminator | | #72-132 | £43.00 Volume Pricing Request Quote | 1 In Stock <input type="text" value="1"/> |

Related Products



NIREOS SPIDER High-Dynamic Range VIS-SWIR Photodetector



Laser Safety Glasses and Goggles



Optical Filters



Neutral Density (ND) Filters

Frequently Purchased Together



#53-272 - Filter Translation Mount
£104.80



#53-357 - 12.7mm - 12.7mm (Fixed), Right Angle Post Clamp



#55-003 - 25.0/25.4mm Optic Dia., Kinematic Mirror Mount



#55-215 - Laser Detection Card VIS
£86.40

Qty 

£22.80

Qty 

£268.80

Qty 

Qty 