

## SI Variable Gain Photoreceiver, 320-1000nm



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A\$6,752<sup>00</sup>

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### Product Downloads

### General

Remote Control:  
Yes

Note:  
Includes:  
LEMO® 3-pin connector  
Datasheet

### Physical & Mechanical Properties

Weight (g):  
320

Dimensions (mm):  
Case Size: 170 x60 x45

## Optical Properties

320 - 1000 nm **Spectral Range:**

## Sensor

Si-PIN **Detector Type:**

## Electrical

**Transimpedance Gain ( $\Omega$ ):**  
Low Noise:  $1 \times 10^3 - 1 \times 10^9$  (adjustable in decade steps)  
High Speed:  $1 \times 10^4 - 1 \times 10^9$  (adjustable in decade steps)

**Noise Equivalent Power NEP ( $W/Hz^{1/2}$ ):**  
 $8.1 \times 10^{-14} - 3.25 \times 10^{-10}$

200 MHz max **Bandwidth (-3 db):**

## Hardware & Interface Connectivity

**Power Requirement:**  
 $\pm 15 V$ ,  $+150 mA - 100 mA$ ,  $\pm 200 mA$

**Power Supply:**  
Power Supply Required and Sold Separately.  
USA: [#59-180](#)  
Europe: [#59-180](#)  
Japan: Not Available  
Korea: Not Available  
China: [#59-180](#)

## Environmental & Durability Factors

0 to +60 **Operating Temperature ( $^{\circ}C$ ):**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

## Product Details

- Ultra-Wide Adjustable Transimpedance Gain from  $10^2$  to  $10^{11} V/W$
- Exceptional Low-Noise, High-Sensitivity Single-Beam Detection
- Optimized for Absolute Optical Power Measurements
- Designed for Direct, Alignment-Free Integration

Variable Gain Photoreceivers feature an ultra-wide adjustable transimpedance gain from  $10^2$  to  $10^{11} V/W$ , enabling precise measurement of optical signals across a broad power range. Engineered for ultra-low noise performance, these photoreceivers achieve noise equivalent power (NEP) as low as  $6 fW/\sqrt{Hz}$ , ensuring accurate detection of extremely weak optical signals. Designed for single-beam detection, they provide maximum sensitivity and dynamic range, allowing for simple, alignment-free integration into optical systems. Variable Gain Photoreceivers are ideal for applications such as photonics research, optical communication testing, and precision low-light measurements.

**Note:** Power supply sold separately. Please see specifications for more details.