

# InGaAs Variable Gain Photoreceiver, 1550nm



Stock #90-627 **NEW** 1 In Stock

1 **£3,052<sup>.00</sup>**

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Volume Pricing	
Qty	£3,052.00
1+	each
Need More?	<a href="#">Request Quote</a>

Prices shown are exclusive of VAT/local taxes

## General

**Rise Time (µs):** 0.7 - 300

**Remote Control:** Yes

**Note:** Includes:  
LEMO® 3-pin connector  
Datasheet

## Physical & Mechanical Properties

**Weight (g):** 320

**Dimensions (mm):** Case Size: 170 x 60 x 45

## Optical Properties

**Spectral Range:** 900 - 1700 nm

## Sensor

**Detector Type:** InGaAs PIN

## Electrical

**Noise Equivalent Power NEP (W/ Hz<sup>1/2</sup>):** 6 x 10<sup>-15</sup>- 2.2 x 10<sup>-11</sup>

**Bandwidth (-3 db):** 500 KHz max

**Conversion Gain (V/W):** Low Noise: 1 x 10<sup>4</sup>-1 x 10<sup>10</sup>(adjustable in decade steps)  
High Speed: 1 x 10<sup>6</sup>-1 x 10<sup>12</sup> (adjustable in decade steps)

## Hardware & Interface Connectivity

**Power Requirement:** ±15 V, +150 mA/-100 mA, ±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

**Operating Temperature (°C):** 0 to +60

## Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

## 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  $6\text{fW}/\sqrt{\text{Hz}}$ , 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.

## 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
<a href="#">MORE+</a>	110-240V Amplifier & Photodetector Power Supply		<b>#59-180</b>	<b>£224.00</b> Volume Pricing   <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/>
<a href="#">MORE+</a>	FC/PC, FC/UPC Fiber Adapter		<b>#90-631</b> <b>NEW</b>	<b>£76.00</b> <a href="#">Request Quote</a>	<b>1 In Stock</b> <input type="text" value="1"/>
<a href="#">MORE+</a>	FC/APC Fiber Adapter		<b>#90-632</b> <b>NEW</b>	<b>£88.00</b> <a href="#">Request Quote</a>	<b>1 In Stock</b> <input type="text" value="1"/>
<a href="#">MORE+</a>	FSMA Fiber Adapter		<b>#90-633</b> <b>NEW</b>	<b>£64.00</b> <a href="#">Request Quote</a>	<b>1 In Stock</b> <input type="text" value="1"/>
<a href="#">MORE+</a>	100mm Low Noise BNC to BNC Cable		<b>#90-644</b> <b>NEW</b>	<b>£132.00</b> <a href="#">Request Quote</a>	<b>1 In Stock</b> <input type="text" value="1"/>
<a href="#">MORE+</a>	200mm Low Noise BNC to BNC Cable		<b>#90-645</b> <b>NEW</b>	<b>£136.00</b> <a href="#">Request Quote</a>	<b>1 In Stock</b> <input type="text" value="1"/>
<a href="#">MORE+</a>	500mm Low Noise BNC to BNC Cable		<b>#90-646</b> <b>NEW</b>	<b>£136.00</b> <a href="#">Request Quote</a>	<b>1 In Stock</b> <input type="text" value="1"/>
<a href="#">MORE+</a>	1m Low Noise BNC to BNC Cable		<b>#90-647</b> <b>NEW</b>	<b>£148.00</b> <a href="#">Request Quote</a>	<b>1 In Stock</b> <input type="text" value="1"/>
<a href="#">MORE+</a>	1.5m Low Noise BNC to BNC Cable		<b>#90-648</b> <b>NEW</b>	<b>£152.00</b> <a href="#">Request Quote</a>	<b>1 In Stock</b> <input type="text" value="1"/>
<a href="#">MORE+</a>	2m Low Noise BNC to BNC Cable		<b>#90-649</b> <b>NEW</b>	<b>£160.00</b> <a href="#">Request Quote</a>	<b>1 In Stock</b> <input type="text" value="1"/>
<a href="#">MORE+</a>	3m Low Noise BNC to BNC Cable		<b>#90-650</b> <b>NEW</b>	<b>£180.00</b> <a href="#">Request Quote</a>	<b>1 In Stock</b> <input type="text" value="1"/>

	Title	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	5m Low Noise BNC to BNC Cable		#90-651 <b>NEW</b>	<b>£256.00</b> <a href="#">Request Quote</a>	1 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	3-Pin Lemo® Connector		#90-652 <b>NEW</b>	<b>£24.00</b> <a href="#">Request Quote</a>	1 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	4-Pin Lemo® Connector		#90-654 <b>NEW</b>	<b>£32.00</b> <a href="#">Request Quote</a>	1 In Stock <input type="text" value="1"/>

## Related Products



Balanced Photoreceivers