

# InGaAs Photodetector

## InGaAs-PDA-Fix-G Photodetector

Ear-infrared dedicated detection equipment

- Material and spectrum adaptation
- Amplification type + fixed gain design
- Performance balances sensitivity and speed
- High compatibility and stability



One Platform Many Possibilities

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## Overview

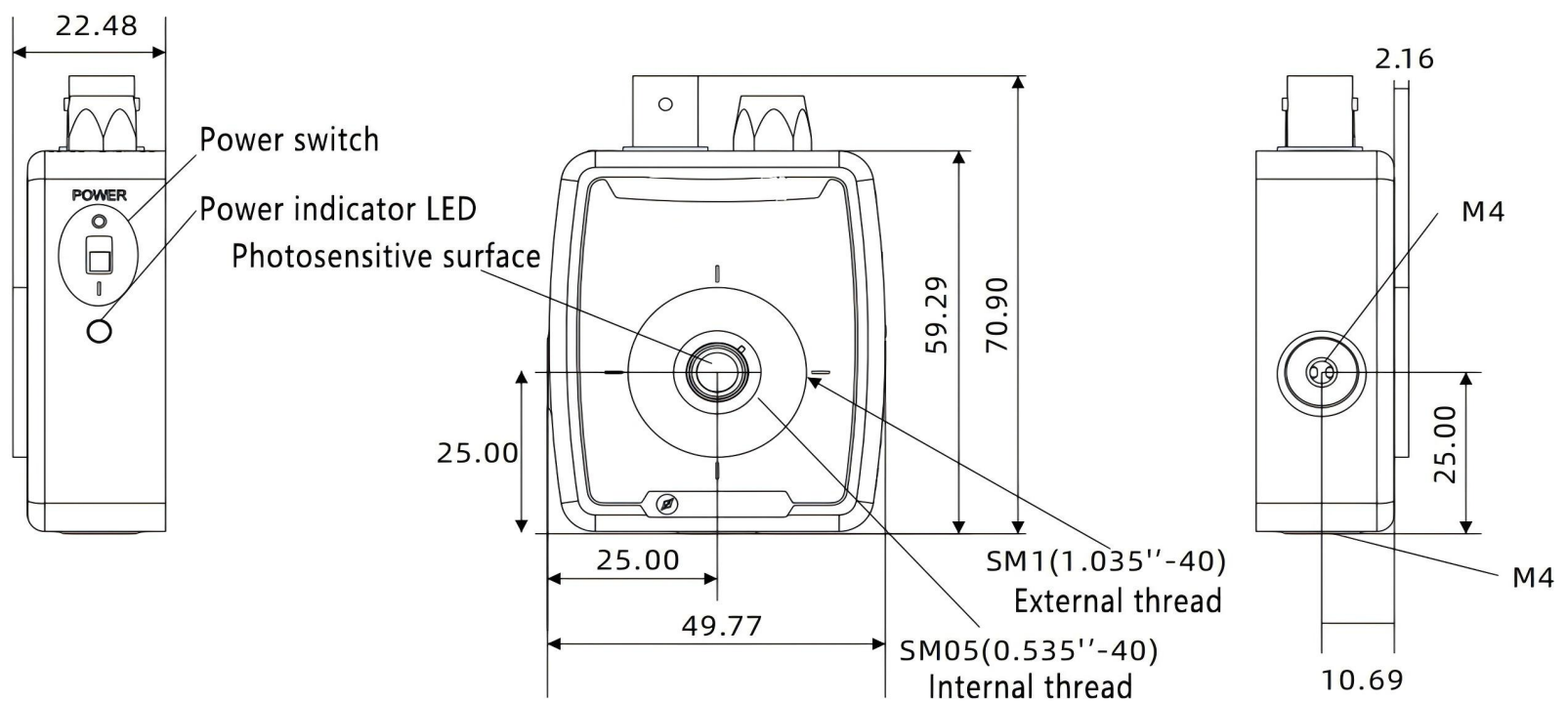
### Introduction:

This indium gallium arsenide detector has a photosensitive range of 800~1700nm and is often used for near-infrared light measurement. It is designed as an amplifying type with fixed gain, enabling quantitative photoelectric conversion. While having sufficient gain, it ensures high bandwidth performance, making it suitable for the development of photoelectric detection applications with weak light intensity and high speed. It is seamlessly compatible with the same model of THORLABS, featuring excellent performance and high cost-effectiveness, and provides comprehensive technical support and non-standard customization services.

### Features:

- Indium gallium arsenide material, 800~1700nm photosensitive, used for near-infrared measurement
- Amplification type, fixed gain, supports quantitative photoelectric conversion
- Balances gain and high bandwidth, suitable for weak light and high-speed photoelectric detection
- Same as Thorlabs, seamlessly compatible
- Excellent performance, high cost performance, including comprehensive technical support
- Supports non-standard customization

### Dimension:



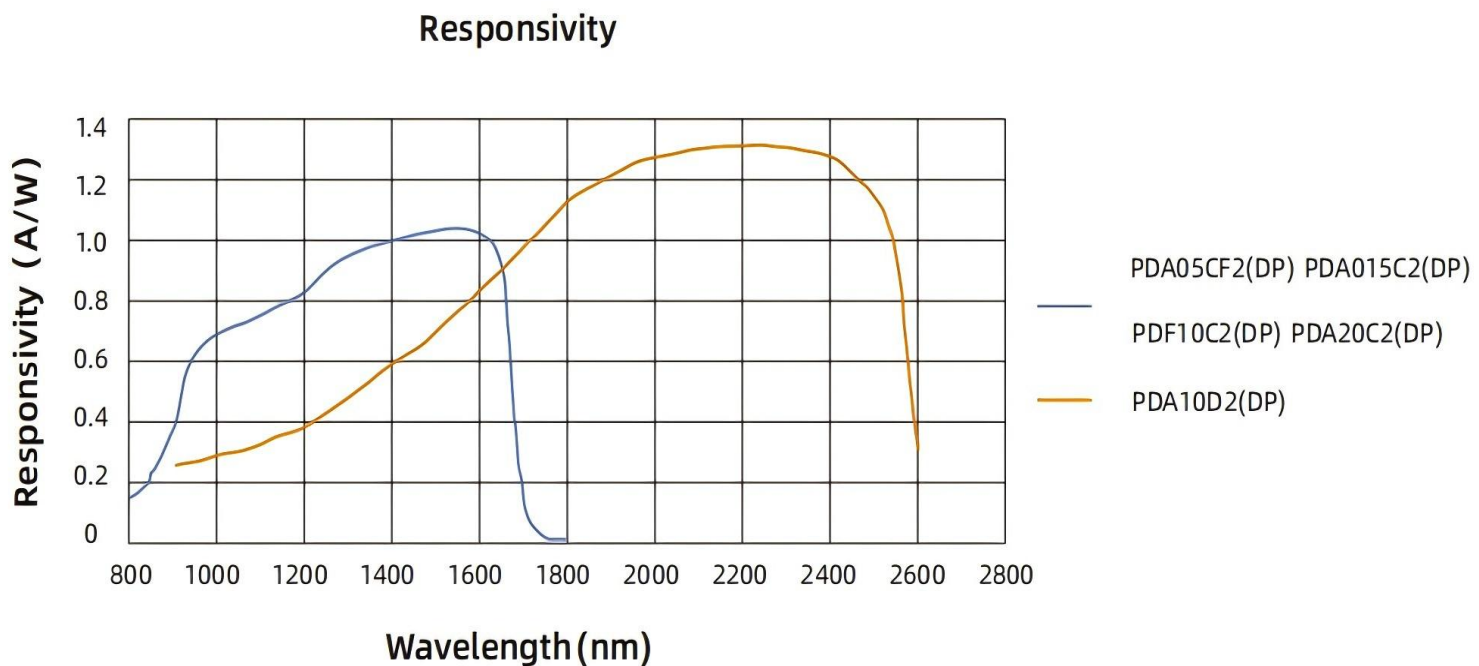
## Specifications

### InGaAs-PDA-Fix-G Series Specifications Sheet

Parameter Item	Parameter Value
Detector Material	Indium Gallium Arsenide (InGaAs)
Detector Type	Amplified Type
Gain Type	Fixed Gain
Core Function	Quantitative Photoelectric Conversion
Compatibility	Same as Thorlabs, Seamless Compatibility
Signal Amplitude	Hi-Z Load: 0~10V; 50 Load: 0~5V
Power Interface Type	RSMV3 FEMALE LUMBERG (with LED Indicator)
Optical Interface	Supports SM1 External Thread (1.035"-40), SM05 Internal Thread (0.535"-40)
Operating Temperature Range	10~40
Storage Temperature Range	-20~70

## Responsivity

### Responsivity Diagram of the InGaAs-PDA-Fix-G Series



## Service & Support

We are dedicated to delivering exceptional optoelectronic solutions to every client. From precision manufacturing and secure delivery to full-lifecycle technical support, we are here to ensure a seamless and reliable experience at every step.

### 1. Warranty Policy

#### Quality First, Worry-Free Operation

**Warranty Period:** We offer a **two-year** warranty service for all of our core optoelectronic products, effective from the date of shipment.

**Coverage:** We provide free repair or replacement services for malfunctions caused by material defects or workmanship errors under normal operating conditions.

**Rapid Response:** Upon receiving a warranty claim, we guarantee to initiate the assessment process within **24 hours** to minimize your equipment downtime.

### 2. Technical Support

#### Expert Team, Full-Process Guidance

**Technical Consultation:** Our team of senior optical engineers provides **24/7 online support** to assist with installation, commissioning, optical path alignment, and parameter optimization.

**Scheduled Maintenance:** We offer full-lifecycle maintenance recommendations, including firmware upgrades, optical component cleaning guidelines, and precision calibration services.

**Training Services:** We provide customized remote or on-site operational and safety training to ensure your team can operate the equipment efficiently and safely.

### 3. Logistics & Delivery

#### Precision Packaging, Global Reach

**Professional Packaging:** Given the fragile nature of optical instruments, we utilize industrial-grade shockproof, anti-static, and moisture-proof vacuum packaging to ensure zero damage during transit.

**Logistics Partners:** We partner with top-tier global logistics providers (**DHL / FedEx / UPS / SF Express**) to offer reliable shipping with real-time tracking.

**Shipping Insurance:** All shipments are fully insured to eliminate logistics risks.

### 4. Compliance & Certification


#### Strict Standards, Total Compliance

**Quality Certification:** Our manufacturing process is **ISO 9001 certified**, and our products comply with international standards such as **CE** and **RoHS**.

**Export Compliance:** "Committed to environmental responsibility, all our products comply with **RoHS 2.0** and **REACH** standards, ensuring safety and global compliance."

## Explore Series

Model	Fixed Gain (Hi-Z Load)	Spectral Range Noise	Equivalent Power (NEP)	Bandwidth Range
PDA05CF2(DP)	10kV/A	800~1700nm	$1.2 \times 10^{11}$ W/Hz <sup>1/2</sup>	DC~150MHz
PDA015C2(DP)	5x10 V/A	800~1700nm	$2 \times 10^{11}$ W/Hz <sup>1/2</sup>	DC~380MHz
PDF10C2(DP)	$1 \times 10^{11}$ V/A $\pm$ 10%	800~1700nm	$2 \times 10^1$ W/Hz <sup>1/2</sup>	DC~20Hz
PDA20C2(DP)	500kV/A	800~1700nm	$2.2 \times 10^{11}$ W/Hz <sup>1/2</sup>	DC~5MHz
PDA10D2(DP)	1x10 V/A	900~2600nm (Infrared Extension)	$1.1 \times 10^{11}$ W/Hz <sup>1/2</sup>	DC~25MHz

 Get in touch with our team to explore configurations, request a quote, or learn more about customized solutions tailored to your needs.

Let us help you move science forward—faster and smarter.

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