

# InGaAs Photodetector

## InGaAs-DET-Bd-Conv Photodetector

Low-cost, high-stability general-purpose photoelectric conversion devices

- Indium gallium arsenide wide spectrum
- Low bias, low noise, fast response
- Compatible with Thorlabs conventionally
- Stable, reliable and customizable



One Platform Many Possibilities

Contact Us [sales@venuslabtech.com](mailto:sales@venuslabtech.com)

Get a Quote



Get Expert Advice  
+658099 5547 ( WhatsApp )



Visit Us  
[www.venuslabtech.com](http://www.venuslabtech.com)

## Overview

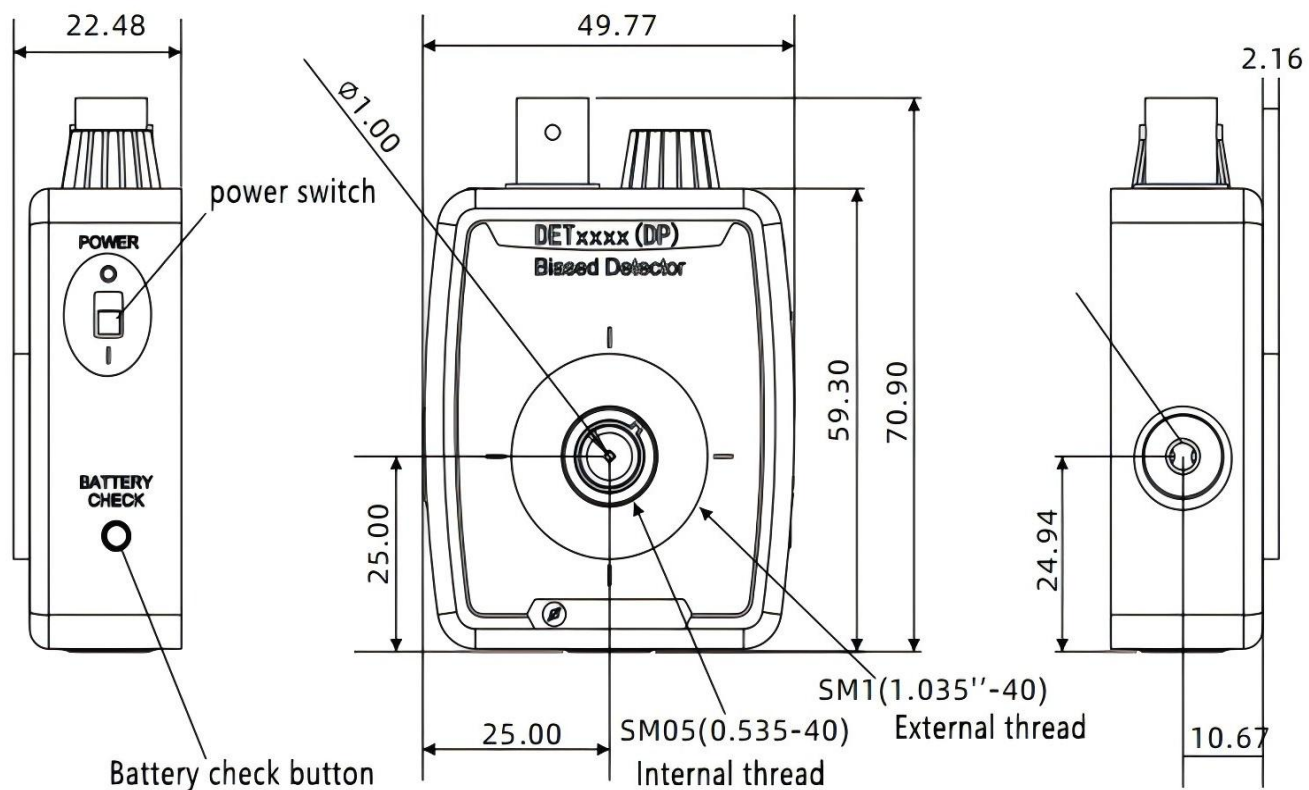
### Introduction:

This indium gallium arsenide detector has a photosensitive range of 500~2600nm, suitable for visible light and infrared light measurement. It is designed as a biased type, featuring extremely low noise, fast response, and no gain. It has low cost and is suitable for conventional photoelectric detection scenarios. It is seamlessly compatible with the same model of Thorlabs and boasts excellent performance and high cost-effectiveness. Comprehensive technical support and non-standard customization services are provided.

### Features:

- Indium gallium arsenide material, 500~2600nm light measurement
- Bias design with no gain, low noise and fast response
- Low cost, compatible with conventional photoelectric detection
- Excellent performance, with comprehensive technical support
- Non-standard customization services can be provided on demand

### Dimension:



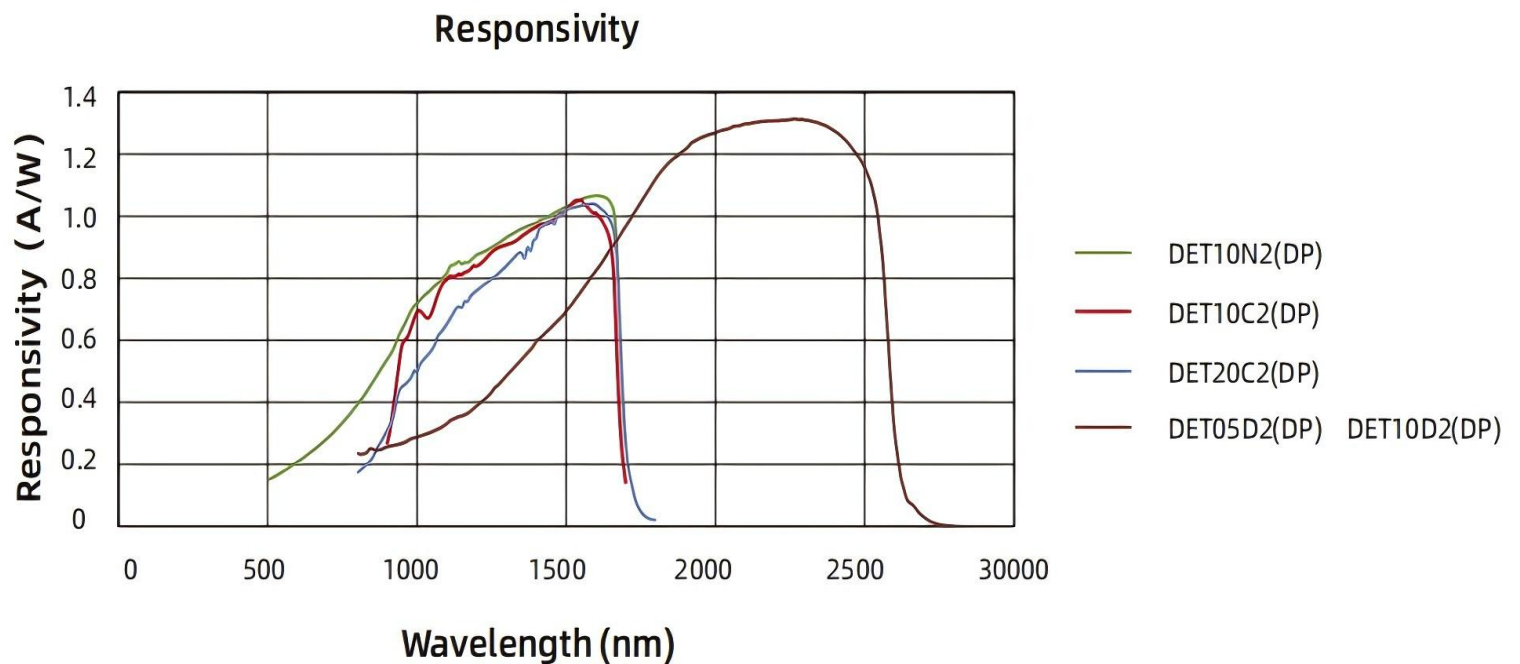
## Specifications

### InGaAs-DET-Bd-Conv Series Specifications Sheet

Parameter Category Same	Parameter Content
Detector Material	Indium Gallium Arsenide (InGaAs)
Product Type	Biased, conventional photodetector
Spectral Response Attribute	All cover sub-bands within 500~2600nm, suitable for visible and near-infrared light measurement
Gain Characteristic	No gain
Output Voltage	Approx. 9V under Hi-Z load, approx. 170mV under 50 load
Dimensions	2.79"×1.96"×0.89" (70.9mm×49.8mm×22.5mm)
Net Weight	0.1kg
Operating Temperature	10~50
Storage Temperature	-20~70
Power Supply Battery	A23, 12VDC, 40mAh
Signal Interface	BNC female connector
Optical Interface	SM1×1, SM0.5×1
Compatibility	Compatible with THORLABS equivalent products

## Responsivity

### Responsivity Diagram of the InGaAs-DET-Bd-Conv 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	Rise Time (@50 )	Bandwidth	Sensitive Area Size	Spectral Response Range
DET10N2(DP)	5ns	70MHz	1.0mm	500 - 1700nm
DET10C2(DP)	10ns	35MHz	1.0mm	900 - 1700nm
DET20C2(DP)	30ns	11.7MHz	2.0mm	800 - 1700nm
DET05D2(DP)	17ns	20.6MHz	0.5mm	900 - 2600nm
DET10D2(DP)	25ns	14MHz	1.0mm	900 - 2600nm

 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.

[Get a Quote](#)



Get Expert Advice  
+658099 5547 ( WhatsApp )



Visit Us  
[www.venuslabtech.com](http://www.venuslabtech.com)