

# UV Photodetector

## Si/InGaAs-Ps-S Photodetector

Constructed based on indium arsenide antimonide (InAsSb) material

- Ultra-high-speed response mechanism
- High-sensitivity detection capability
- Wide spectral adaptability



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

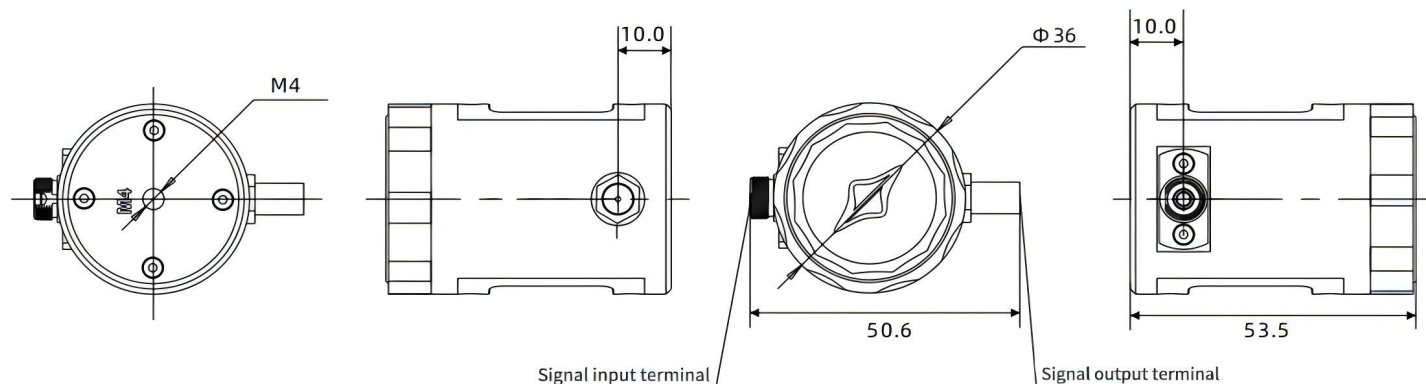
### Introduction:

This ultra-high-speed detector is commonly used in scenarios involving the measurement of visible light and near-to-mid infrared light in daily applications. It is a biased detector with extremely low noise and an exceptionally fast response speed, although it does not have a gain function. It is suitable for measuring high-speed laser pulses or the intensity and time-varying waveforms of luminescent phenomena. Moreover, it boasts excellent performance, high cost-effectiveness, and can provide comprehensive technical support. If there are special requirements, non-standard customization can also be done as per the requirements.

### Features:

- Ultra-high speed, suitable for visible light and near-to-mid infrared light measurement.
- Bias type, extremely low noise, ultra-high speed response, no gain.
- Capable of measuring the intensity-time waveform of high-speed laser pulses or luminescent events.
- Excellent performance, high cost-effectiveness, with comprehensive technical support.
- Non-standard customization services are available.

### Dimension:



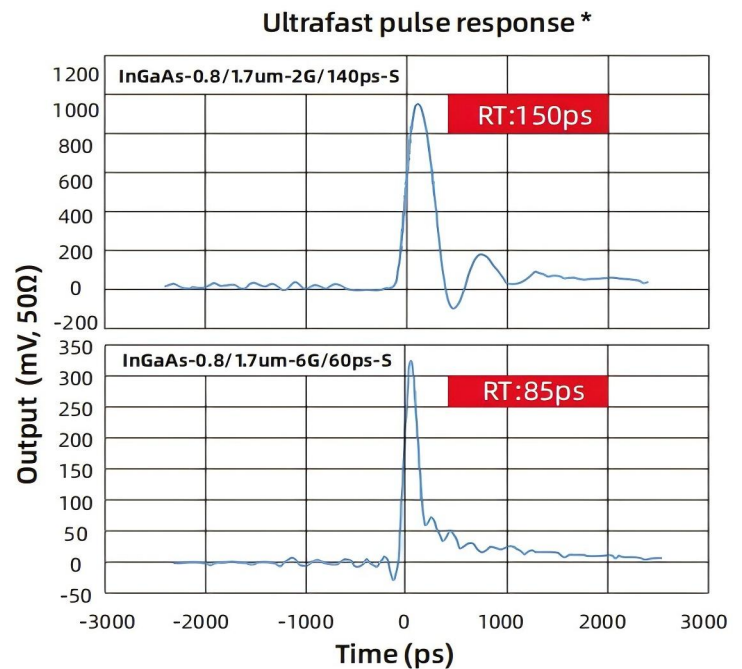
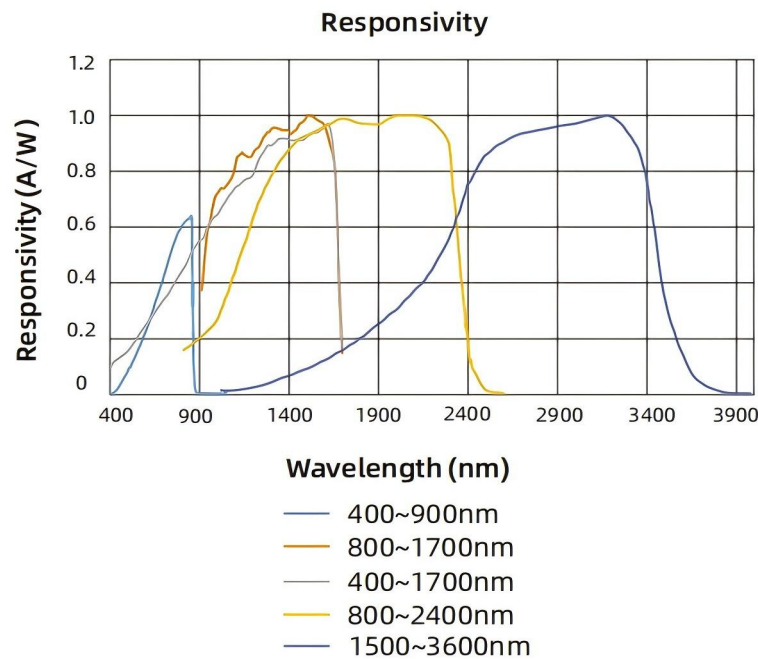
## Specifications

### Si/InGaAs-ps-S Series Specifications Sheet

Parameter Category	Common Parameters
Detector Type	Biased (No Gain)
Core Features	Ultra-low noise, ultrafast response (gain-free design)
Power Supply	12V A23 battery (external power supported)
Operating Impedance	50 (DC-coupled)
Overall Dimension	36mm×53.5mm (compact uniform design)
Signal Interface	SMA (DC-coupled, for high-speed signal transmission)
Mounting Interface	M4×1 (standardized mechanical interface)
Operating Temperature	0~40 (wide temperature adaptability)
Photosensitive Surface	Anti-reflective coating (default "S" flat window, optional lens/fiber adaptor)
Weight	0.13kg (lightweight design)

## Responsivity

Responsivity Diagram of the Si/InGaAs-ps-S Series



**\* Test condition :**

Pulse: SP Solstice, 100fs, 800nm;  
Oscilloscope: RIGOL Ds70504, 5GHz BW, 20GSa/s.

## 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	Photosensitive Range	Bandwidth (BW)	Photosensitive Size	Rise Time (RT)
Si-0.4/0.9um-10G/40ps-S	400~900nm	10GHz	50um	40ps
Si-0.4/0.9um-2.5G/130ps-S	400~900nm	2.5GHz	70um	130ps
InGaAs-0.8/1.7um-2G/140ps-S	800~1700nm	2GHz	120um	140ps
InGaAs-0.8/1.7um-3G/120ps-S	800~1700nm	3GHz	100um	120ps
InGaAs-0.8/1.7um-6G/60ps-S	800~1700nm	6GHz	50um	60ps
InGaAs-0.8/1.7um-20G/17ps-S	800~1700nm	20GHz	45um	17ps
InGaAs-0.4/1.7um-1G/250ps-S	400~1700nm	1GHz	100um	250ps
InGaAs-0.8/2.4um-1G/250ps-S	800~2400nm	1GHz	100um	250ps
InGaAs-1.5/3.6um-1G/250ps-S	1500~3600nm	1GHz	100um	250ps

 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)