

UV Photodetector

Si-PDA-Fix-G Photodetector

Silicon-based amplifying optoelectronic device for UV-Vis band

- Wide range of materials and spectral coverage
- Amplifying type + fixed gain design
- Balanced performance in both sensitivity and speed
- High compatibility and easy integration
- Strong scene adaptability



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

Get a Quote



Get Expert Advice
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Overview

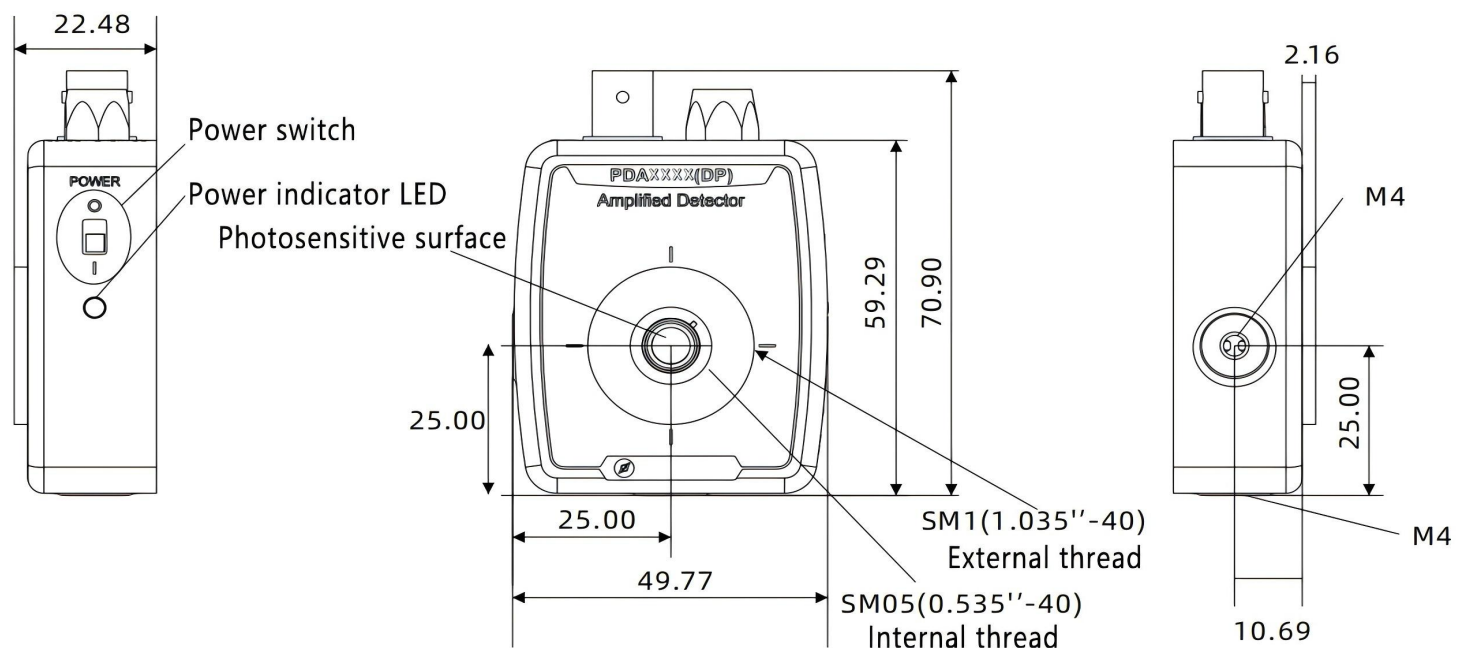
Introduction:

This silicon detector has a photosensitive range of 200~1100nm and is commonly used for ultraviolet and visible light measurement. It is designed as an amplifying type with a fixed gain, enabling quantitative photoelectric conversion. It has sufficient gain while ensuring high bandwidth, 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. Comprehensive technical support and non-standard customization services are provided.

Features:

- Silicon material, 200~1100nm photosensitive, used for ultraviolet and visible light measurement
- Amplified type, fixed gain, supports quantitative photoelectric conversion
- Balances gain and high bandwidth, suitable for low-light, high-speed photoelectric detection scenarios
- Same as THORLABS, seamlessly compatible
- Excellent performance, high cost performance, with comprehensive technical support
- Supports non-standard customization

Dimension:



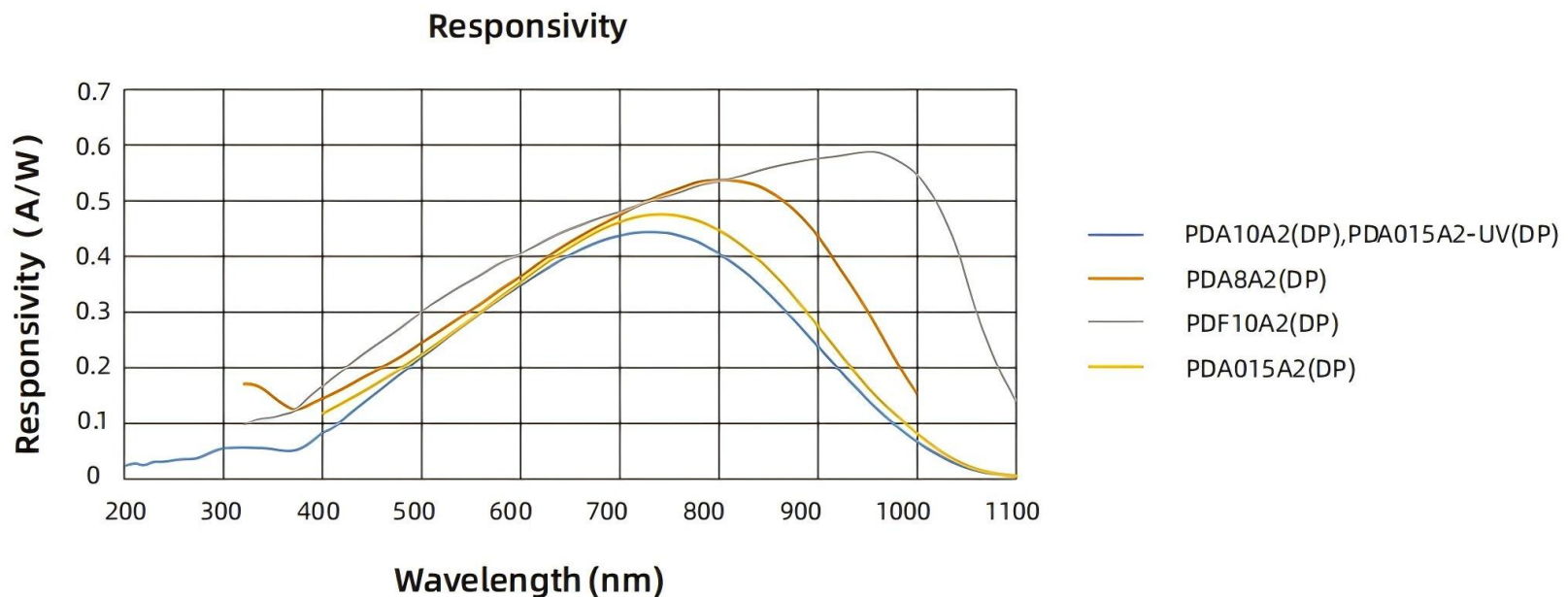
Specifications

Si-PDA-Fix-G Series Specifications Sheet

Parameter Item	Parameter Value
Detector Material	Silicon (Si)
Detector Type	Amplified Type
Gain Type	Fixed Gain
Core Function	Quantitative Photoelectric Conversion
Compatibility	Same as Thorlabs, Seamless Compatibility
Storage Temperature Range	-25~70
Power Interface Type	RSMV3 FEMALE LUMBERG (with LED indicator)
Optical Interface	Supports SM1 External Thread (1.035"-40), SM05 Internal Thread (0.535"-40)

Responsivity

Responsivity Diagram of the Si-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	Bandwidth Range	Noise Equivalent Power (NEP)
PDA10A2(DP)	1×10^4 V/A	200~1100nm	DC~150MHz	2.92×10^{-11} W/Hz ^{1/2}
PDA015A2-UV(DP)	5×10^4 V/A	200~1100nm	DC~380MHz	3.6×10^{-11} W/Hz ^{1/2}
PDA015A2(DP)	5×10^4 V/A	400~1000nm	DC~380MHz	3.6×10^{-11} W/Hz ^{1/2}
PDF10A2(DP)	1×10^{12} V/A \pm 10 %	320~1100nm	DC~20Hz	3.0×10^{-15} W/Hz ^{1/2}
PDA8A2(DP)	100kV/A	320~1000nm	DC~50MHz	7.8×10^{-12} W/Hz ^{1/2}

 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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