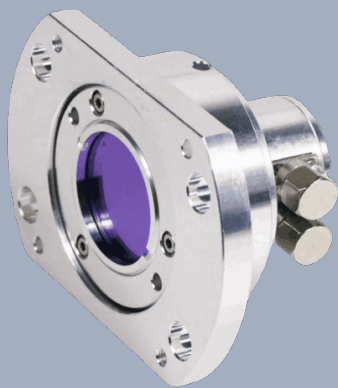


UV Photodetector

SiC-EUV-AG Photodetector

Solid-State Integrated EUV Detection Solution

- Fundamental Advantages Empowered by Wide-Bandgap Materials
- Precise Response Capability in the EUV Band
- Functional Upgrade of AG (Enhanced Gain)
- Stable Adaptability to Extreme Environments



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

Get a Quote



Get Expert Advice
+658099 5547 (WhatsApp)



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Overview

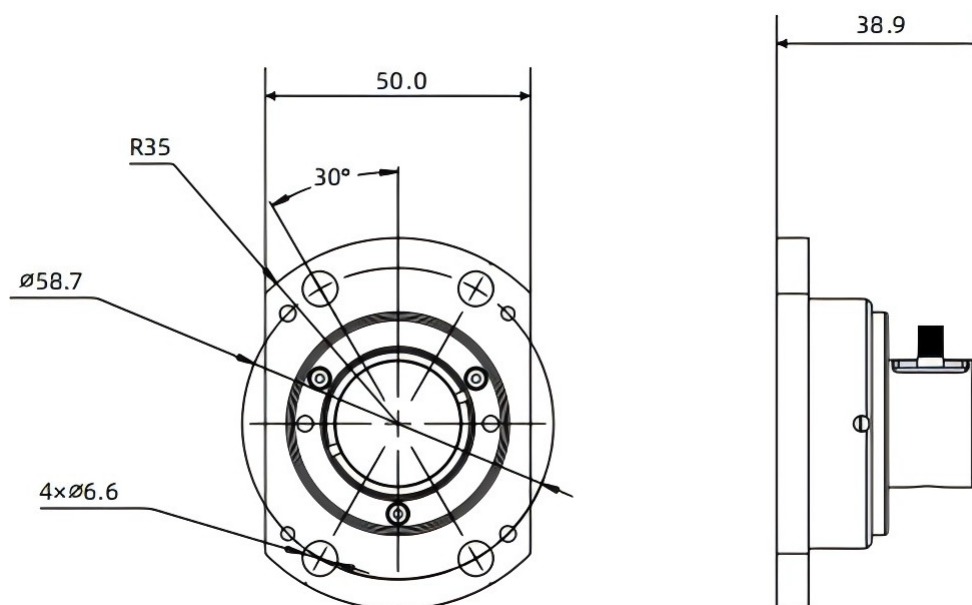
Introduction:

SiC-EUV-AG is a SiC-based extreme ultraviolet photodetector covering the 5–125nm EUV wavelength range. It integrates 8-level adjustable gain, is equipped with a vacuum flange for high vacuum compatibility, and features high-flux radiation tolerance, low dark current, and visible-blind characteristics, precisely suited for extreme ultraviolet measurement scenarios.

Features:

- High stability, long service life, and resistance to high-flux EUV radiation;
- Visible-blind, low dark current;
- High responsivity at 13.5nm EUV wavelength;
- Vacuum flange structure, compatible with high vacuum levels;
- Excellent performance, high cost-effectiveness, and comprehensive technical support;
- Non-standard customization services are available.

Dimension:



Specifications

SiC-EUV-AG Series Specifications Sheet

Product Model	SiC-EUV-AG
Spectral Response Range	5nm – 125nm
Responsivity (@13.5nm)	58mA/W
Gain Range	High-Z Load: 1.51 kV/A to 4.75 MV/A; 50 Load: 0.75 kV/A to 2.38 MV/A
Signal Amplitude	High-Z Load: 0V – 10V; 50 Load: 0 – 5 V
Gain Adjustment Method	Rotary step adjustment: 0 – 70 dB, 10 dB per step, 8 steps total. Bandwidth is inversely proportional to gain.
Operating Temperature	-20°C to 80°C
Storage Temperature	-55°C to 90°C
Signal Interface	SMA Connector

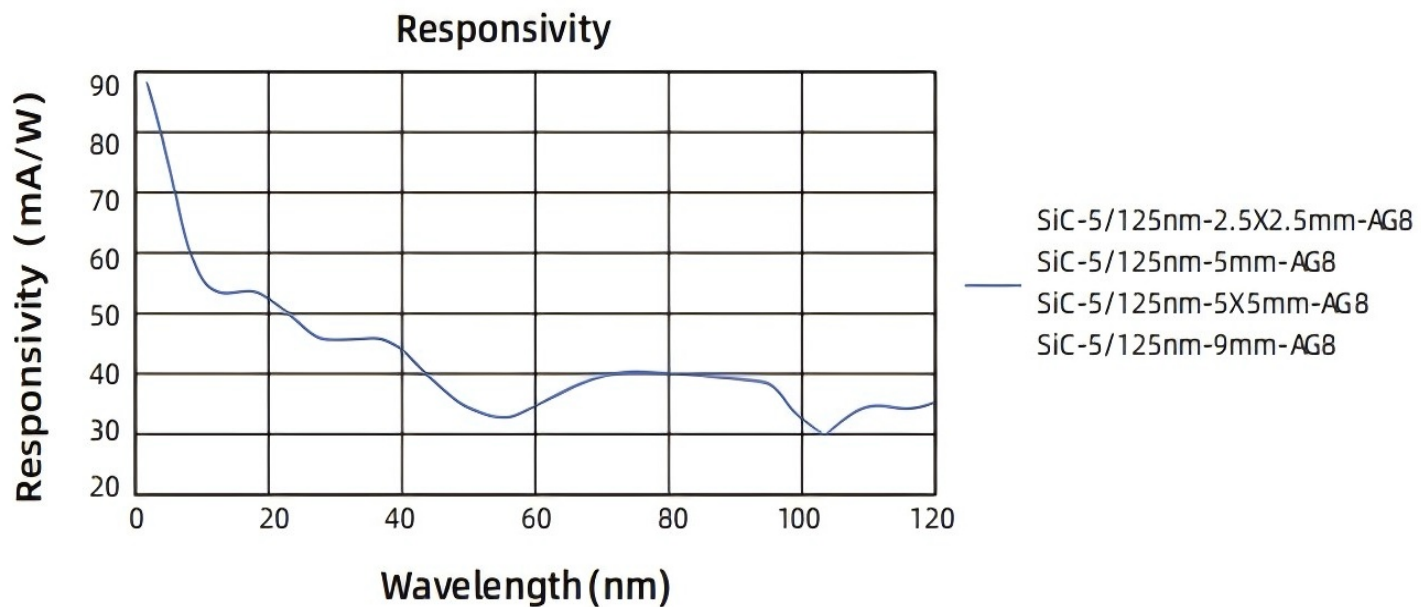
Adjustable Gain Parameters

Detailed Adjustable Gain Specifications Sheet

	0dB	10dB	20dB	30dB
Gain (Hi-Z)	1.51×10 ³ V/A	4.75×10 ³ V/A	1.5×10 ⁴ V/A	4.75×10 ⁴ V/A
Gain (50Ω)	0.75×10 ³ V/A	2.38×10 ³ V/A	0.75×10 ⁴ V/A	2.38×10 ⁴ V/A
Bandwidth (BW)	12MHz	1.6MHz	1MHz	260kHz
Noise (RMS)	258μV	192μV	207μV	211μV
	40dB	50dB	60dB	70dB
Gain (Hi-Z)	1.51×10 ⁵ V/A	4.75×10 ⁵ V/A	1.5×10 ⁶ V/A	4.75×10 ⁶ V/A
Gain (50Ω)	0.75×10 ⁵ V/A	2.38×10 ⁵ V/A	0.75×10 ⁶ V/A	2.38×10 ⁶ V/A
Bandwidth (BW)	90kHz	28kHz	9kHz	3kHz
Noise (RMS)	214μV	234μV	277μV	388μV
Signal Offset	±8mV(Typ.) , ±12mV(Max)			

Responsivity

Responsivity Diagram of the SiC-EUV-AG 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	Photosensitive Size	Response Time Constant	Outline Dimensions	Net Weight of the Detector
SiC-5/125nm-2.5 X 2.5mm-AG8	φ6.25mm	< 1uS	50mm X 38.9mm X 70mm	0.10kg
SiC-5/125nm-5mm-AG8	φ19.6mm	< 1uS	50mm X 38.9mm X 70mm	0.10kg
SiC-5/125nm-5x5mm-AG8	φ25mm	< 2uS	50mm X 38.9mm X 70mm	0.10kg
SiC-5/125nm-9mm-AG8	φ64mm	< 2uS	50mm X 38.9mm X 70mm	0.10kg

 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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