

## **PHOTONIS LAUNCHES CRICKET™ PRO AND PHOTONPIX™: TWO MARKET-LEADING SOLUTIONS TO ADVANCE SINGLE PHOTON DETECTION AND IMAGING APPLICATIONS**

PRESS RELEASE

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Photonis, a leading brand of Exosens and a global leader in advanced photon detection and imaging solutions, proudly announces the launch of two revolutionary products, Cricket™ Pro and PhotonPix™. Designed to redefine the possibilities of imaging and single photon detection, these cutting-edge solutions empower researchers and industry professionals to achieve unparalleled performance across applications such as biomedical imaging, quantum science, and high-energy physics.

The official debut of these technologies will occur at SPIE Photonics West 2025 in San Francisco, CA, further demonstrating Photonis' commitment to advancing imaging and photon detection technologies.

### [Cricket™ Pro: Transforming Low-Light Imaging with High-Speed Precision](#)

The Cricket™ Pro brings unprecedented imaging capabilities for low-light and single-photon imaging applications. This innovative, plug-and-play image intensifier adapter easily fits any professional, scientific F-Mount camera, delivering high resolution and ultra-high-speed functionality for demanding low-light applications. Key features of the Cricket™ Pro include:

- Expanded 25 mm active detection area
- High-speed gating as fast as 3 nanoseconds
- Remarkable 3 MHz Burst or 30kHz repetition rate
- Matched with High-performance Photonis Image Intensifier
- F-Mount lens/camera interface
- Fully integrated power and gating electronics

With these enhancements, Cricket™ Pro sets a new benchmark for scientific imaging, providing precise, rapid, and reliable performance tailored for researchers and industry professionals.



## [PhotonPix™: Ultra High-Count Rate Module for Single-Photon Detection with Ultimate Timing Accuracy](#)

Photonis also proudly introduces PhotonPix™, a high-count rate MCP-PMT-based plug-and-play module engineered for ultra-high timing precision single-photon detection. Combining state-of-the-art technology with user-centric design, PhotonPix offers:

- An Ø8 mm sensitive area
- Extreme-low dark count rate as low as 20 cps
- Count rates exceeding 200 MHz in Burst mode, making it ideal for high-demand applications
- Timing resolution below 15 ps for unmatched precision

Those unique properties make PhotonPix™ ideal for ultra-fast Single Photon Detection and time-correlated applications such as LIDAR, Photon Entanglement, or Life Time Imaging. The module's versatility accommodates various high-quantum-efficiency (Hi-QE) photocathodes from Photonis, covering the spectrum range from 150nm to 900nm, making it the perfect fit for researchers and industry professionals.



*"Our participation at Photonics West and the launch of Cricket™ Pro and PhotonPix™ demonstrate our commitment to setting new standards in single photon detection and imaging. These innovative technologies provide unprecedented performance, giving researchers and professionals the tools to drive advancements in a variety of fields, from biomedical imaging to quantum applications," said Ulrich Laupper, President of the Exosens Ultimate Detection Business Unit.*

### Experience the Future of Photon Detection and Imaging

Discover how the **Cricket™ Pro** and **PhotonPix** can transform your research and applications. Visit **Photonis at Booth #1827** during SPIE Photonics West 2025 to see live demonstrations and connect with our experts.

**Event Details:**

Date: January 28-30, 2025

Location: Moscone Center, San Francisco, CA

Can't attend? Learn more about these groundbreaking technologies:

- Explore additional product information at [www.exosens.com](http://www.exosens.com)
- Request a personalized product demo or consultation by contacting our team directly at [science@exosens.com](mailto:science@exosens.com)

**ABOUT PHOTONIS:**

Photonis is a leading product brand of Exosens, a high-tech company with more than 85 years of experience in the innovation, development, manufacture and sale of high-end electro-optical technologies. Photonis offers its customers photo-detection and low light conditions imaging solutions for extremely demanding environments such as Defense & Security, Nuclear Safety, Life Science and Industrial & Non-Destructive testing. Photonis is internationally recognized as a leading brand and a major innovator in its fields with production and R&D sites in Europe and North America.

For more information: [exosens.com](http://exosens.com)