

ADVANCED IMAGE INTENSIFIER ADAPTER

Cricket™²

Boost your camera sensitivity!

Key features

- Plug & play Image Intensifier solution
- Ruggedized with integrated electronics and optics
- Capture high speed phenomena with your camera
- Low light level imaging in UV, VIS & NIR (120-900nm)
- Compatible with CMOS and CCD cameras

For researchers who dedicate time to science rather than instrument set-up. Cricket™² offers plug and play intensified imaging or single photon imaging functionality. Recognized for best value, Cricket™² sets an unmatched standard for connectivity with scientific microscopes and cameras.

Easy to use and adaptable for future requirements due to the wide choice of Hi-QE™ photocathodes and gating options. All made by Photonis, the global leader in Image Intensifier Technology.



*Best value upgrade
to single photon
sensitivity and extreme
high shutter speed.*

”

Cricket™²

LOW LIGHT LEVEL IMAGING



Plug & play connectivity
with microscopes and
scientific cameras

Low light level imaging application

Single MCP (Multi Channel Plate)

The Cricket™² fitted with an **High resolution single MCP** based IIT (Image Intensifier Tube) enables a plug & play solution for **high resolution, low light level imaging**.

By straight forward C-Mount attachment and USB power supply, the Cricket™² offers an unmatched standard for connectivity with scientific microscopes and cameras.

High speed gating down to 3ns for **time-domain imaging** using the photocathode as electro-optical shutter. High repetition rate up to 300 kHz and 2.5 MHz in burst mode.



Features

- High resolution up to 64 lp/mm
- High speed gating down to 3ns
- Hi-CE (Collection efficiency) MCP
- High dynamic range
- Available with full Hi-QE photocathode range

Applications

- High speed imaging of turbine blades
- Fluorescence Lifetime Imaging (FLIM)
- Engine combustion analysis
- Contact us for expert advice on your application

Cricket™²

SINGLE PHOTON IMAGING



For researchers who
dedicate time to science
rather than instrument set-up

Single photon imaging application

High gain dual MCP (Chevron setup)

The Cricket™² fitted with a **dual MCP** (Multi Channel Plate) Chevron setup based IIT (Image Intensifier Tube) enables a plug & play solution for single photon imaging.

Single photon sensitivity thanks to **Hi-CE** (Collection Efficiency) MCPs with up to 2×10^6 gain, for researches who spend time to science rather the instrument set-up.

Available with **full range of Photonis Hi-QE photocathode** based IITs with market leading QE (Quantum Efficiency) covering the full spectral range from 130nm (UVC) up to 900nm (NIR).

Features

- Dual MCP (Chevron)
- Hi-CE (Collection efficiency) MCPs
- High gain up to 2×10^6
- High speed gating down to 3ns
- Available with full Hi-QE photocathode range

Applications

- High energy physics
- Quantum assisted optical interferometry
- Optical readout for time projection chambers
- Time correlated single photon imaging
- Contact us for expert advice on your application



*We use the Cricket in our Ramsey-comb spectroscopy
project for phase measurements on nanosecond timescale.*

*The fast gating option of the Cricket enables the speed and accuracy
we need for these measurements, we are happy with the performance.*

”

Prof. dr. K.S.E. Eikema,

Professor Ultrafast Laser Physics and Precision Metrology
for Fundamental Tests, Director LaserLaB Amsterdam.

PHOTONIS
Scientific Detectors



Photonis Netherlands B.V.

Dwaziewegen 2
9301 ZR Roden
The Netherlands

T +31 (0) 50 501 8808
F +31 (0) 50 501 1456
E info@photonis.com
W www.photonis.com

www.photonis.com

TII 東京インスツルメンツ
TOKYO INSTRUMENTS

本社：〒134-0088 東京都江戸川区西葛西 6-18-14 T.I.ビル
TEL：03-3686-4711 FAX：03-3686-0831
大阪営業所：〒532-0003 大阪府淀川区宮原 4-1-46 新大阪北ビル
TEL：06-6393-7411 FAX：06-6393-7055

©2022 The information furnished is believed to be accurate and reliable, but is not guaranteed and is subject to change without notice. No liability is assumed by Photonis for its use. Performance data represents typical characteristics as individual product performance may vary. Customers should verify that they have the most current Photonis product information before placing orders. No claims or warranties are made as to the application of Photonis products. Pictures may not be considered contractually binding. This document may not be reproduced, in whole or in part, without the prior written consent of Photonis.