

ADVANCED  
IMAGE INTENSIFIER  
ADAPTER

**PHOTONIS**  
Reveal the invisible

# Cricket™<sup>2</sup>

Boost your camera sensitivity!



*BEST VALUE UPGRADE  
TO SINGLE PHOTON  
SENSITIVITY AND EXTREME  
HIGH SHUTTER SPEED.*

## 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™<sup>2</sup> offers plug and play intensified imaging or single photon imaging functionality. Recognized for best value, Cricket™<sup>2</sup> 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.

# Cricket™<sup>2</sup>

## LOW LIGHT LEVEL IMAGING



### PLUG & PLAY CONNECTIVITY WITH MICROSCOPES AND SCIENTIFIC CAMERAS

#### Low light level imaging application

##### Single MCP (Multi Channel Plate)

The Cricket™<sup>2</sup> 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™<sup>2</sup> 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™<sup>2</sup>

## 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™<sup>2</sup> 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  $2 \times 10^6$  gain, for researchers 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

- ◆ HDual MCP (Chevron)
- ◆ Hi-CE (Collection efficiency) MCPs
- ◆ High gain up to  $2 \times 10^6$
- ◆ 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.*

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