PHOTONIS
Scientific Detectors

Image Intensifiers

PRECISE PHOTON CAPTURE

Capture every photon

Image intensifiers are used to amplify across a wide range of wavelengths, making them visible for researchers to observe behavior and phenomena. Photonis offers the largest selection of both standard and custom detectors in the market, with unmatched gating and photocathode options, including the highest quantum efficiency available.

Customized Options

Photonis' ability to custom manufacture image intensifiers means we can design the exact detector to match your requirements. Build your detector from a wide range of customizable options:

- Active Diameter of 16, 18, or 40 mm with single or multi-stage MCPs
- Photocathodes, including an exclusive Hi-QE option
- Phosphor Screens
- Input & Output Windows
- Coatings
- Gating and Gating Units
- Power Supplies

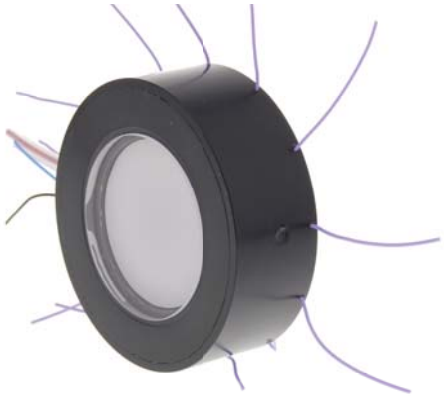
Camera Options

Photonis provides a wide range of camera technology options to support your application. Use our award-winning Nocturn Low Light CMOS camera or choose your preferred imaging techniques:

- Direct bond a CMOS or CCD sensor to any image intensifier
- ICCD or ICMOS Cameras
- Cricket, a lens coupled camera interface

Superior sensitivity in every detector

Photonis' continual innovation in low light image solutions ensures you get the highest quality image intensifier that is specially designed to give you the exact wavelength, phosphor and gain required for your application. Our applications engineers will work with you to design and manufacture a custom solution whether you need one detector or thousands. With Photonis, your detection possibilities are endless.



Non-Destructive Testing

The performance of testing systems can be enhanced with image intensifiers. X-rays are often used for non-destructive testing across a wide range of applications, such as the detection of unwanted material for food safety, improper or unsafe welds in structural assemblies, or to identify damage or connection failures in printed circuit boards. UV leak emissions from high voltage power lines can be detected in full daylight with image intensified cameras.

High-Speed Imaging

Photonis Image Intensifiers can capture extremely high speed phenomena, due to a wide range of gating options combined with a short decay time to provide the necessary speed and sensitivity. The Cricket adapter and a wide range of camera options support video or snapshot images.

Machine Vision and Robotics

Automatic inspection of goods using an Image Intensifier provides high speed scene recognition without additional lighting. Custom detectors can be made with a fast gating option to capture high speed snapshots of moving objects. The low power consumption and lightweight size can easily be integrated into mobile robotics for image recognition.

Medical Imaging

With shutter ratios of 10^9 to 10^{10}, Photonis Image Intensifiers can measure fluorophores in tissue to reveal information about their structure. Image Intensifiers equipped with fast gating and Hi-QE options make Photonis Image Intensifiers suited for measuring the weak absorption of spectra in spectroscopy imaging. Camera options are also available.

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