

Photek Camera Systems

Photek has been developing and manufacturing camera systems for a wide range of scientific and industrial applications since 1991. Based on cutting edge technology, Photek's camera systems are renowned for performance and reliability to meet the demanding requirements of our customers. We are also able to customize designs to match the specifications required by an individual application.



The **Photek High Resolution Photon Counting System (HRPCS)** provides the ability to capture and integrate an image in real time. Photek's HRPCS photon counting camera systems are unique; they provide the ability to capture and image in real time. The HRPCS is a parallel readout device capable of detecting multiple photons at the exactly the same time. The system is available with a standard speed option or a high speed design. The ability to accurately analyze transient events is a key feature of this product. The length of time that the image can be integrated is limited only by disc space, and allows the user to fully capture real-time events. X, Y and time co-ordinates for post-acquisition analysis is recorded. X-ray and vacuum imaging camera options are also available.

For each model's performance specifications, please view Photek's HRPCS datasheet.

Photek HRPCS Features:

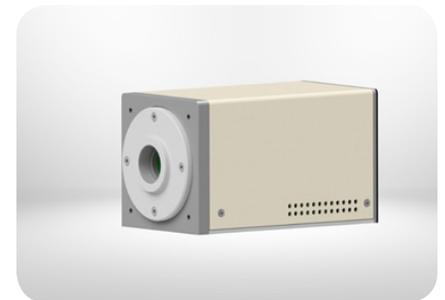
- Single photon counting capabilities
- Resolution up to 1392 x 1040
- Frame rate up to 100 Hz
- Sub-pixel centroiding for enhanced spatial resolution
- Large format x-ray camera option

Photek HRPCS Applications:

- Single photon counting capabilities
- Analysis of fast optical pulses
- Cherenkov light detection
- Fluorescence spectroscopy
- Particle & Nuclear physics & more

The **Photek iCMOS160** represents the latest advance in high speed intensified imaging. Its market-leading speed of 160 frames per second at full resolution, coupled with optional ultra-fast gating, enables higher sensitivity measurements in a wide range of time resolved applications.

Frame rates in excess of 1000 fps are possible at reduced frame size and can perform at up to 2,896 fps, model dependent. The iCMOS 160 is available in two different speed options, standard or high speed. The system can be built with either an 18 mm diameter or 25 mm diameter image intensifier.



For each model's performance specifications, please view Photek's iCMOS 160 datasheet.

Photek iCMOS Features:

- 160 full frames per second
- Gating to <3 ns
- Fully integrated gating control
- Fiber optic coupling for maximum efficiency

Photek iCMOS Applications:

- Time resolved fluorescence imaging
- Time resolved spectroscopy
- Combustion diagnostics
- Plasma physics
- Fluorescence Lifetime Imaging Microscopy (FILM)
- Bio and chemiluminescence imaging

For complete product details and specifications, visit www.photek.com to review the product datasheet. Photek is accredited to ISO 9001 and ISO 14001.



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