

X-ray Line-Scan MeV High Energy Camera Series

XMH8800 Series

The X-Scan Imaging XMH8800 series of linear array x-ray cameras offers high performance for high-energy x-ray and gamma-ray scanning applications. A compact design combines scintillation for conversion of high-energy photons to visible light, and fiber optics for conveying the visible light to a shielded, off-axis linear imaging diode array. At the heart of a XMH8800 camera are X-Scan Imaging's CMOS silicon imaging diode array chips providing wide dynamic range and solid-state reliability. Tungsten housing shields diode array and electronics ensuring long-life reliability under extreme radiation conditions. The close proximity of the analog-to-digital converters (ADC) to the detector chips and the use of low-voltage-differential-signal (LVDS) technology minimize interference noise. A collection of hardware for interfacing to computers and software including drivers, an intuitive application programming interface (API), example code software, and standard inspection application expedite developments of x-ray scanning systems.

Key Features

- Off-axis, fiber-optic design for high-energy reliability with deep CWO
- 450 KeV – 15 MeV energy range with either Straight or Arched geometry
- Wide range of resolutions & selection of lengths
- Incorporates X-Scan Imaging's proprietary XB8800 Photodiode Detectors
 - Selectable resolution
 - Low noise, wide dynamic range, high sensitivity
 - High MTF
- 16-bit analog-to-digital conversion
- Up to 9000 lines/second
- Supports variable scan speed with position synchronization
- Software development kit
 - Device drivers, libraries, standard API
- Rugged housing construction



Applications

- MeV Security and cargo screening
- MeV Industrial non-destructive testing (NDT)
- MeV Industrial CT



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Setup

The XMH8800 series camera system includes a camera unit, an interface box, a software development kit, power adapter and cabling.

XMH8800 supports Camera Link or GigE. For Camera Link, The frame-grabber to be installed in the computer is provided optionally; for GigE, Ethernet cable could run up to 90 meters.

The objects to be scanned should be passed between the x-ray source and the camera.

In case of long detector with arched geometry, source-to-detector distance is predetermined.

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