

Dual-Energy X-ray Line-Scan Camera Series

XID8800 Series

The X-Scan Imaging XID8800 series of dual-energy linear array x-ray cameras offers high performance and capability to differentiate materials in a variety of applications. At the heart of a XID8800 camera are X-Scan Imaging's CMOS silicon imaging detector diode array chips providing wide dynamic range and solid-state reliability. A wide selection of filter and scintillation materials select and convert x-rays for detection by the diode array and optimizes x-ray energy discrimination, sensitivity, and resolution. 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), and example code software expedite developments of x-ray scanning systems.

Key Features

- Extract material of a target from dual-energy image data
- Incorporates X-Scan Imaging's proprietary XB8800 Photodiode Detectors
 - High resolution with varieties of filters and scintillators
 - Low noise, wide dynamic range, high sensitivity, high x-ray energy contrast
 - X-ray energy range options for:
 - Low x-ray energy range (25 – 100 KeV)
 - High x-ray energy range (45 – 160 KeV)
- Variable scan speed with position synchronization
- 16-bit analog-to-digital conversion
- Software development kit
 - Device drivers, libraries, standard API



Applications

- Food and industrial inspection requiring high contrast
- Composite material sorting and inspection
- Security and cargo screening
- Waste sorting and recycling
- Rare metal or mineral detection
- Drug detection and control

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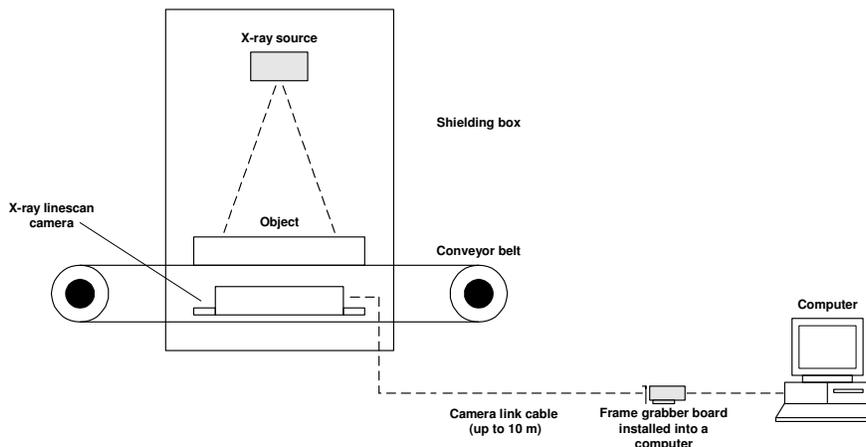
Models

Model	Active length ⁱ	Number of pixels		
		XID8804 Series	XID8808 Series	XID8816 Series
XID88 _{xx} -12	307 mm	768 × 2	384 × 2	192 × 2
XID88 _{xx} -18	461 mm	1152 × 2	576 × 2	288 × 2
XID88 _{xx} -24	614 mm	1536 × 2	768 × 2	384 × 2
XID88 _{xx} -36	922 mm	2304 × 2	1152 × 2	576 × 2
XID88 _{xx} -48	1229 mm	3072 × 2	1536 × 2	768 × 2

ⁱ Other detector lengths are available upon request. Minimum active length is 154mm.

Setup

The XID8800 series camera system includes a camera unit, a software development kit, power adapter and cabling. The frame-grabber to be installed in the computer is provided optionally. The objects to be scanned should be passed between the x-ray source and the camera.



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