

## X-ray Line-Scan Camera Series

# XI8800 Series

The X-Scan Imaging XI8800 series of linear array x-ray cameras offers high performance for x-ray scanning applications at extra long lengths. At the heart of a XI8800 camera are X-Scan Imaging's CMOS silicon imaging detector array chips providing wide dynamic range and solid-state reliability. A wide selection of scintillation material converts x-rays into visible light for detection by the imaging array and optimizes both 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

- Wide range of resolutions & selection of lengths
- Compact form factor
- 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
- Supports variable scan speed with position synchronization
- Software development kit
  - Device drivers, libraries, standard API
- With x-ray tube voltages 15 – 160 kV
- GigE/Camera Link/USB3 interface

### Applications

- Food and industrial inspection
- Package content inspection
- Security and cargo screening
- Industrial non-destructive testing (NDT)



# XI8800 X-ray Line-Scan Camera Series

## Models

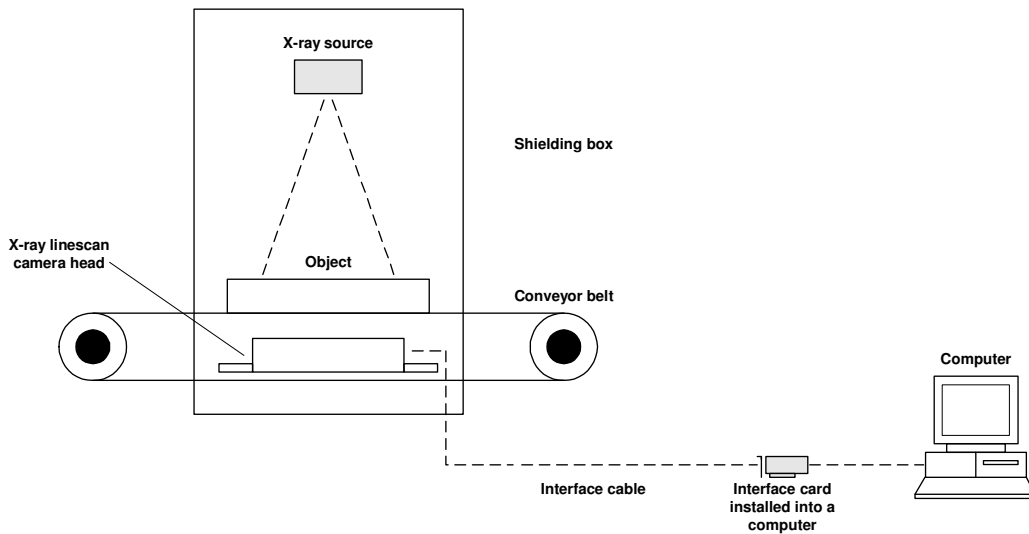
Model : XI88 <sub>□□</sub> -[LLL] <sup>i</sup>						
Model series	XI8850	XI8801	XI8802	XI8804	XI8808	XI8816
Resolution	50 μm	0.1 mm	0.2 mm	0.4 mm	0.8 mm	1.6 mm
Number of pixels	<i>LLL</i> × 512	<i>LLL</i> × 256	<i>LLL</i> × 128	<i>LLL</i> × 64	<i>LLL</i> × 32	<i>LLL</i> × 16
Maximum line rate <sup>ii</sup>	550 Hz	1500 Hz	3 KHz	6 KHz	12 KHz	23 KHz

<sup>i</sup> Active Length is (25.6 mm × *LLL*) where *LLL* is a multiple of 2 and *LLL* ≥ 8 (minimum length is 205 mm and no maximum length limit).

<sup>ii</sup> The maximum line rate is available for *LLL* ≤ 18 (461 mm). Also depending in scintillator choice, image quality may be degraded at line rates greater than 1 KHz.

## Setup

The XI8800 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.



Information furnished by X-Scan Imaging is believed to be accurate and reliable. However, no responsibility is assumed by X-Scan Imaging Corporation for its use. Users are responsible for their products and applications using X-Scan Imaging components. To minimize the risks associated with users' products and applications, users should provide adequate design and operating safeguards. No responsibility is assumed by X-Scan Imaging Corporation for any infringements of patents or other rights of third parties that may result from the use of the information. No license is granted by implication or otherwise under any patent or patent rights of X-Scan Imaging Corporation.

Camera Link® is a registered trademark of the Automated Imaging Association, Ann Arbor, Mich.

Tel: +1 408 432 9888

107 Bonaventura Dr., San Jose, CA 95134, U.S.A.

Fax: +1 408 432 9889

[www.x-scanimaging.com](http://www.x-scanimaging.com)