

## X-ray Line-Scan Camera Series

# XW8800 Series

The X-Scan Imaging XW8800 series of linear array x-ray cameras offers high performance for x-ray scanning applications at extra long lengths. At the heart of a XW8800 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
- Incorporates X-Scan Imaging's proprietary XW8800 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
- With X-ray tube voltage 15- 160 kV

### Applications

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



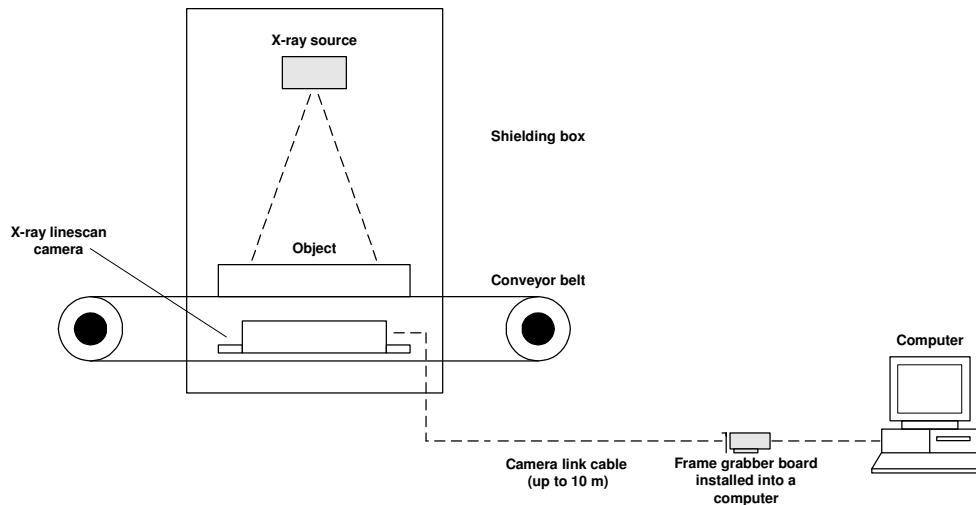
## Models

Model	Active length <sup>i</sup>	Number of pixels			
		XW8804 Series		XW8808 Series	XW8816 Series
		High resolution	Low resolution		
XW88 <sub>xx</sub> -018	463 mm	1152	576	576	288
XW88 <sub>xx</sub> -020	514 mm	1280	640	640	320
XW88 <sub>xx</sub> -024	617 mm	1536	768	768	384
XW88 <sub>xx</sub> -036	925 mm	2304	1152	1152	576
XW88 <sub>xx</sub> -048	1234 mm	3072	1536	1536	768
XW88 <sub>xx</sub> -060	1542 mm	3840	1920	1920	960

<sup>i</sup> Other detector lengths are available upon request. Minimum active length is 154mm; no maximum length limit.

## Setup

The XW8800 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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