

X-ray U-shape Line-scan Camera Series

XU8800 Series

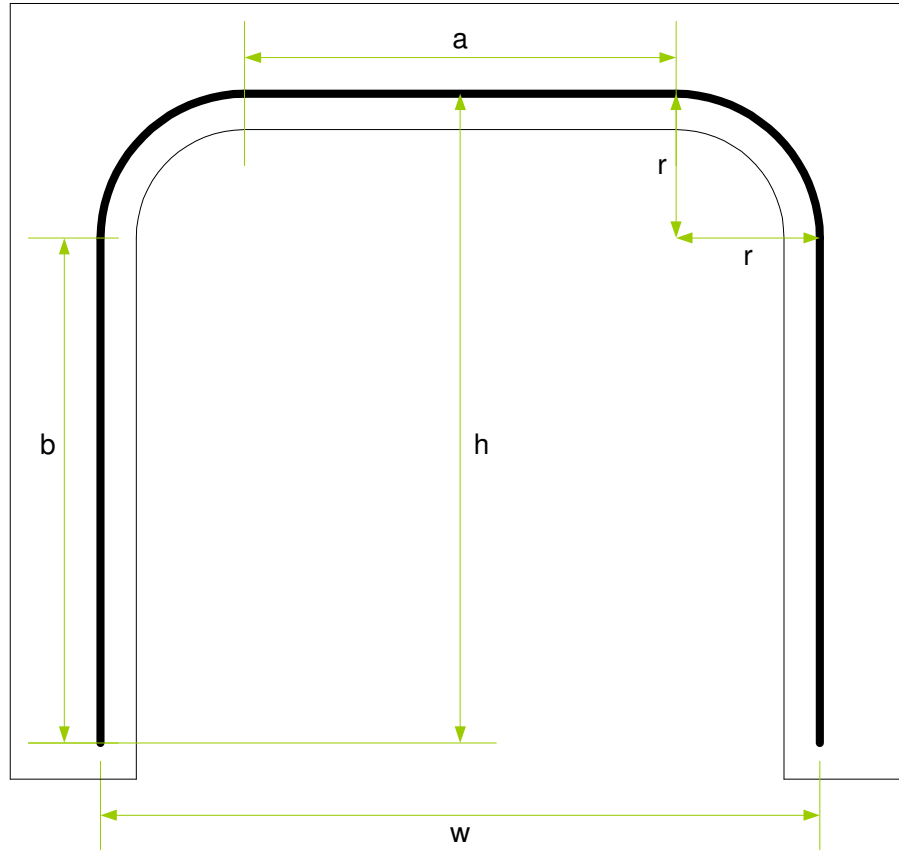
The X-Scan Imaging XU8800 series of x-ray U-shape line-scan cameras offer high performance for x-ray scanning applications using panoramic x-ray sources. The U-shape camera is ideal for tire inspection applications. At the heart of a XU8800 camera are X-Scan Imaging's CMOS silicon imaging detector array 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 minimizes interference noise. A collection of hardware for interfacing to computers and software including drivers and an intuitive application programming interface (API) with sample code expedites development of x-ray scanning systems.

Key Features

- U-shape optimized for tire inspection
- Rounded corners for reduced corner distortions
- Integrated X-Scan proprietary detectors
 - Standard energy range of 40–160 KV
 - High energy versions available
 - Wide selection of resolutions
 - From 0.05 to 1.6 mm
 - Software selectable resolution
 - Low noise
 - Wide dynamic range
 - High x-ray sensitivity
 - High MTF
- 16-bit analog-to-digital conversion
- Scan rates over 2000 lines/second
- Variable scan speeds with position synchronization
- Software development kit: device drivers, libraries, standard API
- X-ray inspection software with standard features
- Compact & rugged housing with minimal cabling
- Modular design for expeditious customization of length and shape



Models



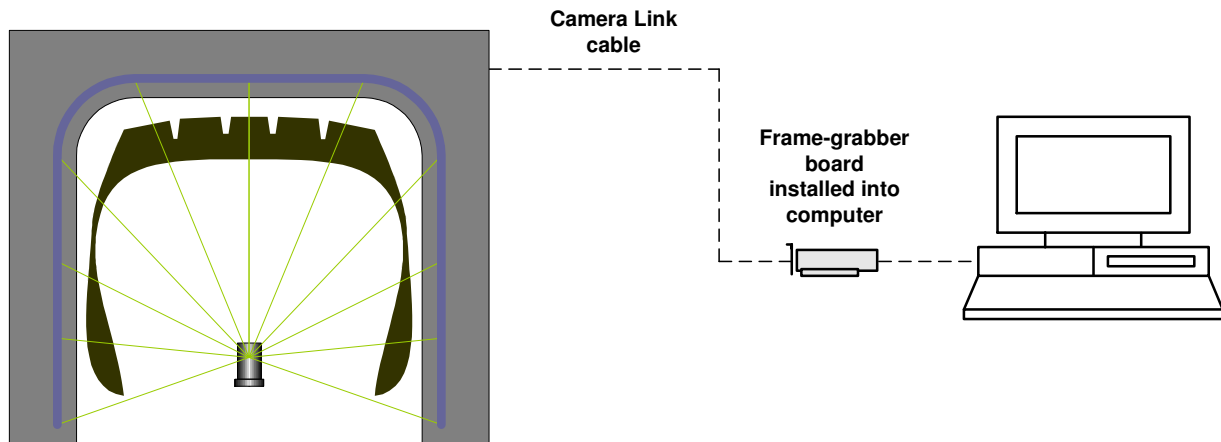
Model	Resolution (mm)	Dimensions (mm)					Total Detector Length (mm)	Minimum Line Period (ms)	Maximum Scan Velocity (m/min)
		a	b	r*	w	h			
XU8804-18-16-1×4	0.4	463	411	73	608	484	1491	0.86	28
	0.8							0.44	109
XU8804-12-18-3×4	0.4	308	463	207	772	670	1850	1.1	22
	0.8							0.54	89
XU8804-18-24-3×4	0.4	463	617	207	877	824	2313	1.1	22
	0.8							0.54	89
XU8804-36-30-3×6	0.4	925	771	311	1546	1082	3392	1.3	18
	0.8							0.65	74
XU8804-68-50-1×6	0.4	1748	1285	109	1966	1394	4626	1.8	13
	0.8							0.87	55

Note: Other geometries available upon request.

* Rounded corners approximated by one to three straight segments.

Setup

The XU8800 series camera system includes a camera body, a software development kit, inspection software, power adapter and cabling. The frame-grabber to be installed in the computer is provided optionally. In a typical tire inspection application, the treads and sidewalls of a rotating tire intersect the x-rays radiating from the x-ray source and directed to the camera body.



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