Line Scan SWIR
PA2048 Series



Xenics SWIR Line Scan Cameras – High-Speed, High-Resolution Industrial Imaging

Wide-Area Inspection with High-Resolution InGaAs Technology

Conventional SWIR cameras often have limited resolution, requiring multiple cameras to inspect wide conveyor belts.

Xenics InGaAs line scan cameras feature 1024 or 2048 pixels per line with a fine 12.5 µm pixel pitch, enabling high-resolution inspection across wide areas.

With a single camera, manufacturers can achieve broad inspection coverage while capturing fine details, reducing system complexity and the need for multiple cameras.

Ultra-High-Speed Line Scan Performance

Xenics Lynx 1024 and Lynx 2048 cameras deliver high-speed line scanning performance for demanding industrial inspection applications.

The flagship Manx 2048 offers line rates of up to 128 kHz (128,000 lines per second), enabling precise image acquisition of rapidly moving objects and continuous production processes.

These high-speed capabilities make Xenics SWIR line scan cameras ideal for automated inspection systems requiring both high throughput and detailed imaging.

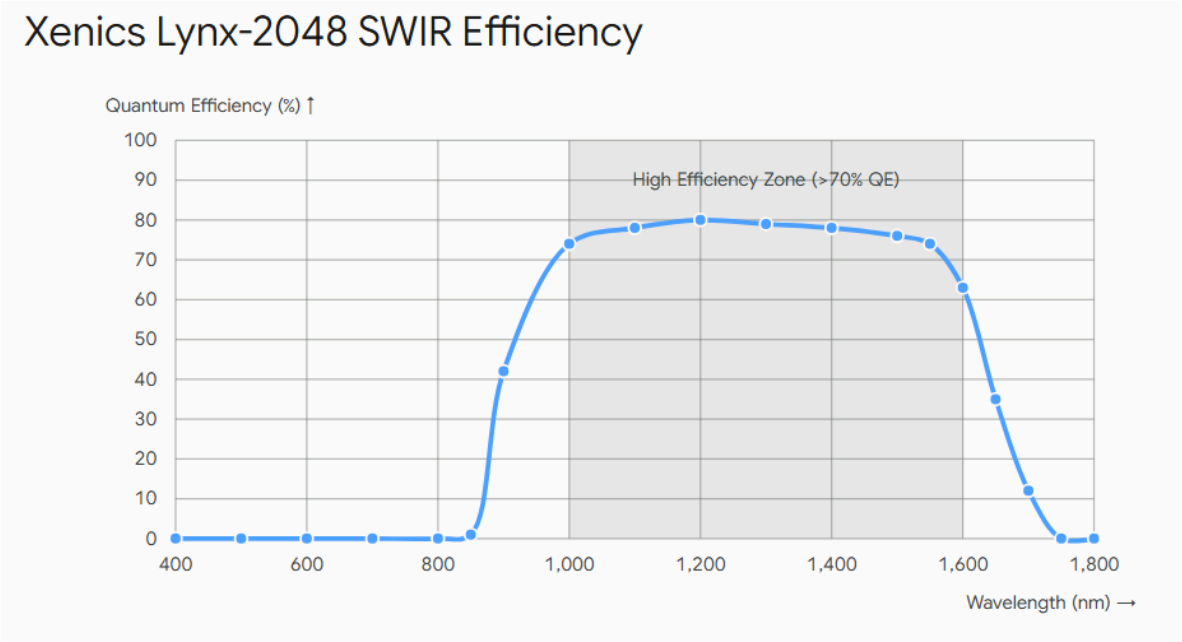
APPLICATIONS

• **High-Speed Food & Grain Sorting**
Enables rapid detection and sorting of foreign materials, including plastics, stones, and other contaminants mixed with grains, nuts, and food products moving along high-speed production lines.

• **Solar Cell & Semiconductor Wafer Inspection**
Supports high-resolution, in-line inspection of silicon wafers and photovoltaic cells, detecting microcracks and structural defects without interrupting continuous production processes.

• **Display & Glass Substrate Inspection**
Enables detection of internal bubbles, inclusions, and foreign particles in transparent glass substrates during continuous manufacturing and inspection processes.

• **High-Speed Spectroscopy & Material Analysis**
Supports high-speed spectral measurement for pharmaceutical inspection, chemical analysis, and material identification when integrated with suitable spectroscopic optics.



SPECIFICATION

	PA2048L10	PA1024L40
Sensor	Xenics 2048 InGaAs	Xenics 1024 InGaAs
Resolution	2048 x 1	1024 x 1
Pixel Size	12.5 x 12.5㎛	
Spectrum Range	0.9 - 1.7㎛	
Frame Rate	10kHz	40kHz
Interface	Camera Link	
Pixel Efficiency	>99% (min)	
Operation Temperature	0 - 50°C	
Weight	< 360g	< 300g
Size	64 x 64 x 65mm	

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