

Preliminary

Imagine the invisible

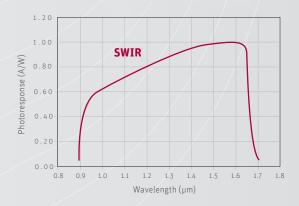


Industrial

Lynx-2048-GigE

High resolution, high speed uncooled SWIR line-scan camera

World's highest resolution SWIR line-scan camera with excellent sensitivity



The unique high line resolution achieved by the Lynx-2048-GigE will maximize your production yields. This SWIR solution is perfectly suited for spectroscopy, and for non-destructive and detail-rich imaging from deeper layers of semiconductor materials or measuring the thickness and uniformity of its functional layers.

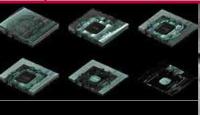
The Lynx-2048-GigE offers in many ways an affordable solution. The small form factor and smallest pixel pitch of 12.5 μ m allows more precision and optimization of compact systems

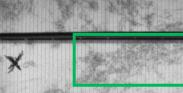
with lower cost lenses. The high line resolution substitutes for costly multiple-camera solutions.

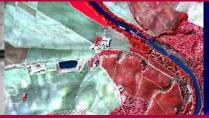
The Lynx-2048-GigE is also a flexible solution with an industry-standard GigE Vision and Power over Ethernet interface. You can also synchronize external events by the trigger input.

You will reach optimal image quality choosing from various configurations in High Sensitivity mode (HS) or High Dynamic Range Mode (HDR) and multiple gain settings.

Designed for use in







Applications

- Spectroscopy
- Food inspection
- · Line scan imaging
- Non-destructive testing
- Semiconductor inspection
- Optical Coherence Tomography (OCT)
- Non-contact thermography of hot objects

Benefits & Features

- Easy to export
- Smallest SWIR line-scan camera
- Superb low dark current imaging
- Full flexibility in integration time settings
- Standard GigE Vision for ease of integration
- Compliant with any software supporting GenICam
- Ultra-high resolution and high sensitivity for low-light conditions

Broad range of accessories available to optimize your system

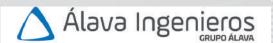


Specifications

Specifications			
Array Specifications	Xlin-1.7-2048		
Array type	InGaAs		
# Outputs	2		
Spectral band	0.9 to 1.7 μm		
# Pixels	2048 x 1		
Pixel pitch	12.5 µm		
Pixel height	12.5 µm		
InGaAs array length	25.6 mm		
Thermo-electric cooler	Uncooled		
Pixel operability	> 98 %		
Camera Specifications	Lynx-2048-GigE		
Focal length	Broad selection of lenses available		
	C-mount with adjustable back focus		
Optical interface	Mounts easily to spectrometers		
	Otional: U-Mount with adjustable back focus Optional: Filter holder		
	Optional. Titler notices		
ine rate	Max 10 kHz		
Pixel rate	25 MPixels/sec		
Integration time	Full flexibility in settings from 1 µs to several minutes		
A to D conversion resolution	14 bit		
CDS	Correlated Double Sampling		
Gain settings	Various Settings from 5 fF (HS) till 830 fF (HDR mode)		
Pixel Well Depth (e-)	Various Settings from 60 Ke- (HS) till 10 Me- (HDR)		
Gain (e-/ADU count) in 16 bit	Various Settings from 3.6 e-/cnt (HS) till 150 e-/cnt (HDR)		
Dynamic Range	Various Settings from 76:1 (HS) till 2400:1 (HDR)		
Onboard image processing	Configurable single NUC		
omboard image processing	User adjustable offset and gain control		
Digital Output	14 bit GigE		
Camera control	Gigabit Ethernet: GigE Vision or Xeneth API/SDK		
mage acquisition	Integrate while read / integrate then read snapshot acquisition		
Trigger	Trigger in and out; LVCMOS		
	Modes: free running or user selectable frame size per trigger 40 ns		
External Trigger jitter Operating mode	Stand-alone or PC-controlled		
	Stand-atone of FC-Controlled		
Power requirements	. 1 . 1 . 1		
Power consumption	+/- 4 W 12 V		
Power supply	12 V		
Physical characteristics	1005 1 7005		
Ambient operating temperature	-40°C to 70°C		
Dimensions	49 W x 49 H x 62 L mm		
Weight camera head	< 150 g (lens not included)		

▶ Product selector guide

Part number	# Pixels	Pixel size (μm²)	Line rate (kHz)
XEN-000311	2048 x 1	12.5 x 12.5	10



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