

Lynx R Series

Linescan SWIR Camera with Rectangular Pixels

- Linescan SWIR Camera with 1024 and 2048 resolution
- In-house developed InGaAs sensor



Small, uncooled InGaAs linescan camera with rectangular pixels

The Lynx rectangular (R) series, based on an in-house developed linear InGaAs detector, offer affordable short-wave infrared (SWIR) linescan imagers.

The Lynx R cameras are able to image line rates up to 40 kHz, with rectangular pixels for improved sensitivity.

The camera comes with an industry-standard CameraLink or GigE Vision interface.

Depending on your imaging requirements, two resolutions of 1024 or 2048 pixels are offered.



Designed for use in

- Medical
- Process Monitoring

Advantages

- High speed linescan imaging up to 40 kHz
- High resolution
- CameraLink or GigE Vision interfacing

► Camera Specifications

Camera Specifications	Lynx 1024 R CL Lynx 1024 R GigE	Lynx 2048 R CL Lynx 2048 R GigE
Mechanical specifications		
Approximate dimensions - excluding lens [width x height x length] [mm]	49 x 49 x 53 [CL], 49 x 49 x 71 [GigE]	
Weight [gr] - excluding lens	153 [CL], 208 [GigE]	
Optical interface	C-mount or M42 [M42 to F-mount adapter optional]	
Connector GigE	RJ-45	
Connector CameraLink	Standard SDR	
Connector power	Hirose HR10-7R-SA[73]	
Connector trigger	SMA	
Environmental & power specifications		
Ambient operating temperature range [°C]	From -40 to +70	
Storage temperature [°C]	From -50 to +85	
Power consumption [W]	2.6 [CL], 4.6 [GigE]	
Power supply voltage	DC 12 V	
Shock	IEC60068-2-27 Ed4.0; half-sine; terminal saw tooth; 50 g [11 ms]	
Vibration	Random: IEC60068-2-64 Ed2.0; 4.3 g [20 - 1000 Hz]. Sine: IEC60068-2-6 Ed7.0; 1 g [10 - 2000 Hz]	
IP rating	IP40	
Regulatory compliance	CE, RoHS	
Electro-optical specifications		
Sensor format [pixels]	1024	2048
Pixel pitch [µm]	12.5	
Pixel height [µm]	250	
Detector type	InGaAs photodiode array with CTIA ROIC	
Integration type	Snapshot - global shutter	
Spectral range [nm]	900 - 1700	
Quantum efficiency	~80% [typical peak value]	
Full well capacities [electrons]	450k to 32M	450k to 10M
Read out modes	ITR and IWR	
Pixel operability	>99%	>98%
Max line rate [kHz]	40	10
Analog-to-Digital [ADC] [bits]	14	
Command and control	CameraLink or GigE Vision	
Digital output format	CameraLink or GigE Vision [16 bit]	
Trigger	In or out via SMA [configurable]. For CL - additional trigger in available via CC1	
Product selector guide		
Part number	XEN-000431 [CL] XEN-000432 [GigE]	XEN-000433 [CL] XEN-000434 [GigE]

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