

## LYNX R SERIES

Line-scan SWIR Camera with Rectangular Pixels

- Line-scan SWIR Camera with 1024 pixel resolution
- In-house developed InGaAs sensor



### SMALL, UNCOOLED InGaAs LINE-SCAN CAMERA WITH RECTANGULAR PIXELS

The Lynx R series, based on an in-house developed linear InGaAs detector, is a high-performance short-wave infrared (SWIR) camera providing high speed and quality line-scan imaging

The Lynx R cameras are able to image line rates up to 40 kHz, for demanding spectroscopy applications.

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

### DESIGNED FOR USE IN

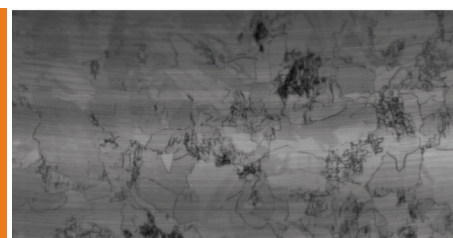
- Spectroscopy
- Spectral-domain optical coherence tomography

### ADVANTAGES

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



Food Sorting



Photoluminescence (solar wafer)



Crack Inspection (solar wafer)

## SPECIFICATIONS

Camera Specifications	Lynx 1024 R CL	Lynx 1024 R GigE
Mechanical specifications		
Camera dimensions (width x height x length) [mm] (approx.)	49 x 49 x 53 [CL], 49 x 49 x 71 [GigE]	
Optical interface	C-mount or M42 [M42 to F-mount adapter optional]	
Camera weight [gr]	153 [CL], 208 [GigE]	
Connector GigE	NA	RJ45
Connector CameraLink	Standard SDR	NA
Connector Power	Hirose HR10-7R-SA [73]	
Connector trigger	SMA	
Environmental & power specifications		
Ambient temperature range [°C]	from -40 to +70	
Storage temperature [°C]	From -50 to +85	
Power consumption [W]	3.9 (CL); 6.3 (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	
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]	from 450k to 32M	
Read out modes	ITR/IWR	
Pixel operability	>99%	
Max line rate [kHz]	40	
Analog-to-Digital [ADC] [bits]	14	
Command and control	CameraLink Base	GigE Vision
Digital output format	16 bit base CameraLink or GigE Vision	
Trigger	In or out via SMA (configurable) - for CL: additional trigger in available via CC1	
Product selector guide		
Part number	XEN-000431	XEN-000432

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