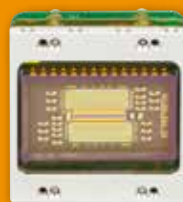


XSL R Series

Linescan SWIR Module with Rectangular Pixels

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



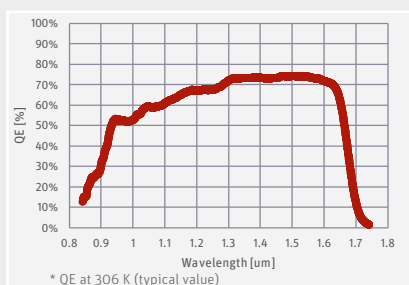
Small InGaAs linescan module with rectangular pixels

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

The XSL R camera modules are able to image line rates up to 40 kHz.

The modules comes with an industry-standard CameraLink, GigE Vision or QTE Samtec 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, GigE Vision or QTE Samtec interfacing

► Camera Specifications

Camera Specifications	XSL 1024 R CL XSL 1024 R GigE	XSL 1024 R 16bitDV	XSL 2048 R CL XSL 2048 R GigE	XSL 2048 R 16bitDV
Mechanical specifications				
Approximate dimensions - excluding lens (width x height x length) [mm]	45 x 45 x 37 [CL] 45 x 45 x 55 [GigE]	45 x 45 x 28	45 x 45 x 37 [CL] 45 x 45 x 55 [GigE]	45 x 45 x 28
Weight [gr] - excluding lens	55 [CL], 96 [GigE]	43	55 [CL], 96 [GigE]	43
Optical interface [optional]	M42, C-mount or F-mount			
Connector GigE	RJ-45 [GigE]	-	RJ-45 [GigE]	-
Connector CameraLink	Standard SDR [CL]	-	Standard SDR [CL]	-
Connector power	Hirose HR10-7R-SA[73]	-	Hirose HR10-7R-SA[73]	-
Connector trigger	SMA	-	SMA	-
Connector general I/O	-	QTE-20-02-L-D-A Samtec	-	QTE-20-02-L-D-A Samtec
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]	2.3	2.6 [CL], 4.6 [GigE]	2.3
Power supply voltage	DC 12 V	DC 3.3 V	DC 12 V	DC 3.3 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]			
Regulatory compliance	RoHS			
Electro-optical specifications				
Sensor format [pixels]	1024	1024	2048	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 32M	450k to 10M	450k to 10M
Read out mode	ITR and IWR			
Pixel operability	>99%	>99%	>98%	>98%
Max line rate [kHz]	40	40	10	10
Analog-to-Digital (ADC) [bits]	14			
Command and control	CameraLink or GigE Vision	QTE Samtec	CameraLink or GigE Vision	QTE Samtec
Digital output format	CameraLink or GigE Vision [16 bit]	Digital Video [16 bit]	CameraLink or GigE Vision [16 bit]	Digital Video [16 bit]
Trigger	In or out via SMA [configurable]. For CL - additional trigger in available via CC1	In or out via QTE Samtec [configurable]	In or out via SMA [configurable]. For CL - additional trigger in available via CC1	In or out via QTE Samtec [configurable]
Product selector guide				
Part number	XEN-000438 [CL] XEN-000439 [GigE]	XEN-000440 -	XEN-000441 [CL] XEN-000442 [GigE]	XEN-000443 [CL] -

XDS.011.01 | Information furnished by Xenics is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions. Specifications are typical values and subject to change without notice. This information supersedes all previously supplied information.



For more information on our products please scan the QR code.

www.xenics.com | www.sinfrared.com