Xenics
EXOSENS GROUP

XSL R Series
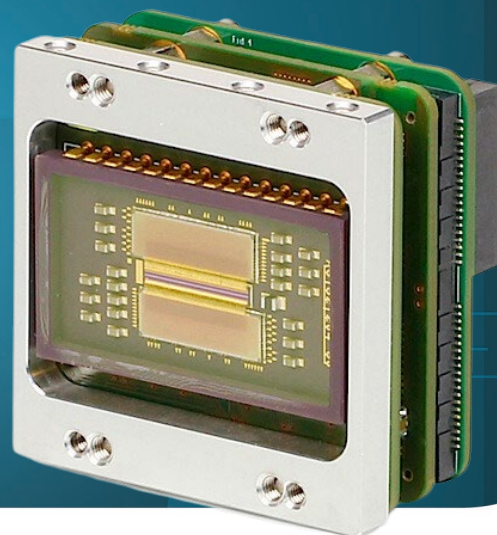
SMALL InGaAs LINE-SCAN CAMERA MODULE WITH RECTANGULAR PIXELS

KEY FEATURES

HIGH SPEED LINE-SCAN IMAGING UP TO 40 kHz

**HIGH RESOLUTION 1024/2048 RECTANGULAR PIXELS OPTION**

INDUSTRY STANDARD INTERFACES

The XSL R series, based on an in-house developed detector, offer high-resolution short-wave infrared (SWIR) line-scan images. The XSL R cameras are able to image line rates up to 40 kHz, for demanding spectroscopy applications. The module comes with an industry standard CameraLink or GigE Vision or a 16 bit Digital Video interface.

XSL R Series
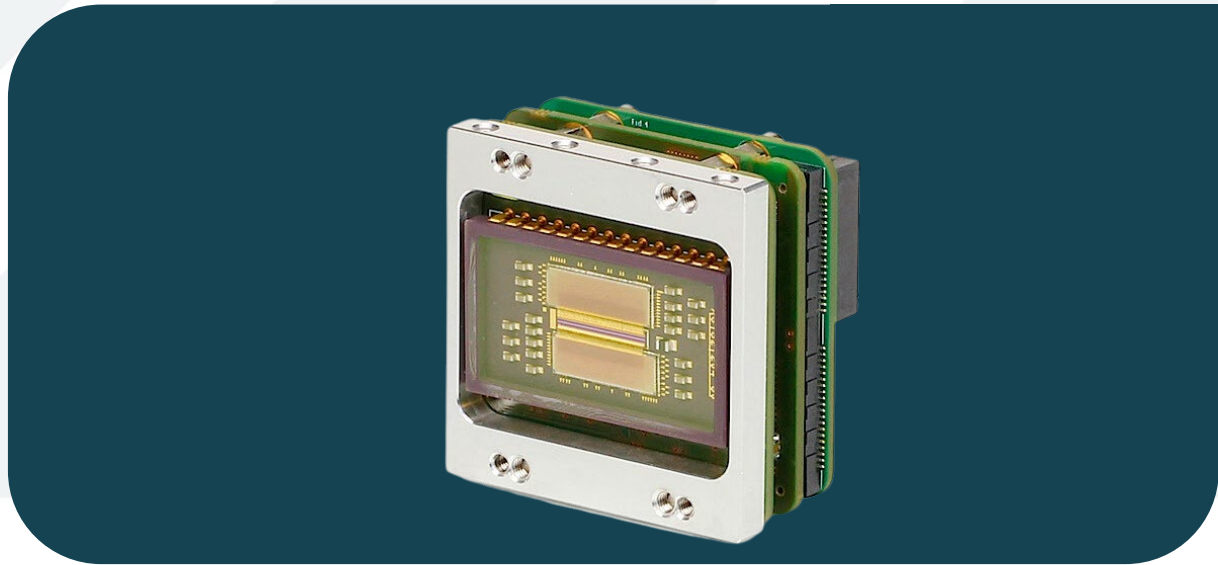
KEY PERFORMANCES

Image format/Pixel pitch	1024 or 2048 pixels/12.5 μm
Detector type	InGaAs photodiode array with CTIA ROIC
Integration type	Snapshot - global shutter
Spectral range	900 - 1700 nm
Max line rate	40 kHz
Power consumption	3.9 W (CL); 6.3 W (GigE); 2.3 W (16 bit DV)
Power supply voltage	DC 12 V (CL; GigE); DC 3.3 V (16 bit DV)

FUNCTIONS & INTERFACES

Digital output format	CameraLink Base; GigE Vision; 16 bit DV
Connector trigger	SMA
Camera dimensions (width x height x length)	45 mm x 45 mm x 37 mm (CL); 45 mm x 45 mm x 55 mm (GigE); 45 mm x 45 mm x 28 mm (16 bit DV)
Optical interface (optional)	M42, C-mount or F-mount
Camera weight	55 gr (CL), 96 gr (GigE); 43 gr (16 bit DV)

PRODUCT SELECTOR GUIDE

XEN-000438 (XSL 1024 R CL)	XEN-000439 (XSL 1024 R GigE)
XEN-000440 (XSL 1024 R 16 bit DV)	XEN-000441 (XSL 2048 R CL)
XEN-000442 (XSL 2048 R GigE)	XEN-000443 (XSL 2048 R 16 bit DV)

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XSL SQ Series

*SMALL InGaAs LINE-SCAN MODULE
WITH SQUARE PIXELS*

KEY FEATURES

**HIGH SPEED LINE-SCAN
IMAGING UP TO 40 kHz**

**HIGH RESOLUTION 512/1024/2048
SQUARE PIXELS OPTION**

INDUSTRY STANDARD INTERFACES

The XSL square (SQ) series, based on an in-house developed linear detector, offer affordable short-wave infrared (SWIR) line-scan images. XSL SQ camera modules are able to image line rates up to 40 kHz. The modules come with an industry-standard CameraLink, GigE Vision or QTE Samtec interface. Depending on the imaging requirements, three resolutions of 512, 1024 or 2048 pixels are offered.

XSL SQ Series

KEY PERFORMANCES

Sensor format/Pixel pitch	512 or 1024 or 2048 pixels / 12.5 or 25 μm
Detector type	InGaAs photodiode array with CTIA ROIC
Integration type	Snapshot - global shutter
Spectral range	900 - 1700 nm
Max line rate	40 kHz
Power consumption	3.9 W (CL); 6.3 W (GigE); 2.3 W (16 bit DV)
Power supply voltage	DC 12 V; DC 3.3 V (16 bit DV)

FUNCTIONS & INTERFACES

Command and control/Digital output format	CameraLink Base; GigE Vision; QTE Samtec
Connector trigger	SMA (CL and GigE)
Camera dimensions (width x height x length)	45 mm x 45 mm x 37 mm (CL); 45 mm x 45 mm x 55 mm (GigE); 45 mm x 45 mm x 28 mm (16-bit DV)
Optical interface (optional)	C-mount or M42
Camera weight	55 gr (CL), 96 gr (GigE); 43 gr (16 bit DV)

PRODUCT SELECTOR GUIDE

XEN-000393 (XSL 512 SQ CL)	XEN-000397 (XSL 512 SQ GigE)
XEN-000145 (XSL 512 SQ 16bitDV)	XEN-000395 (XSL 1024 SQ CL)
XEN-000398 (XSL 1024 SQ GigE)	XEN-000392 (XSL 1024 SQ 16bitDV)
XEN-000396 (XSL 2048 SQ CL)	XEN-000399 (XSL 2048 SQ GigE)

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