

**WORLD'S FASTEST InGaAs
LINE-SCAN CAMERA**



Manx R Series

Line-scan SWIR Camera with Rectangular Pixels



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LINE-SCAN CAMERA*

KEY FEATURES

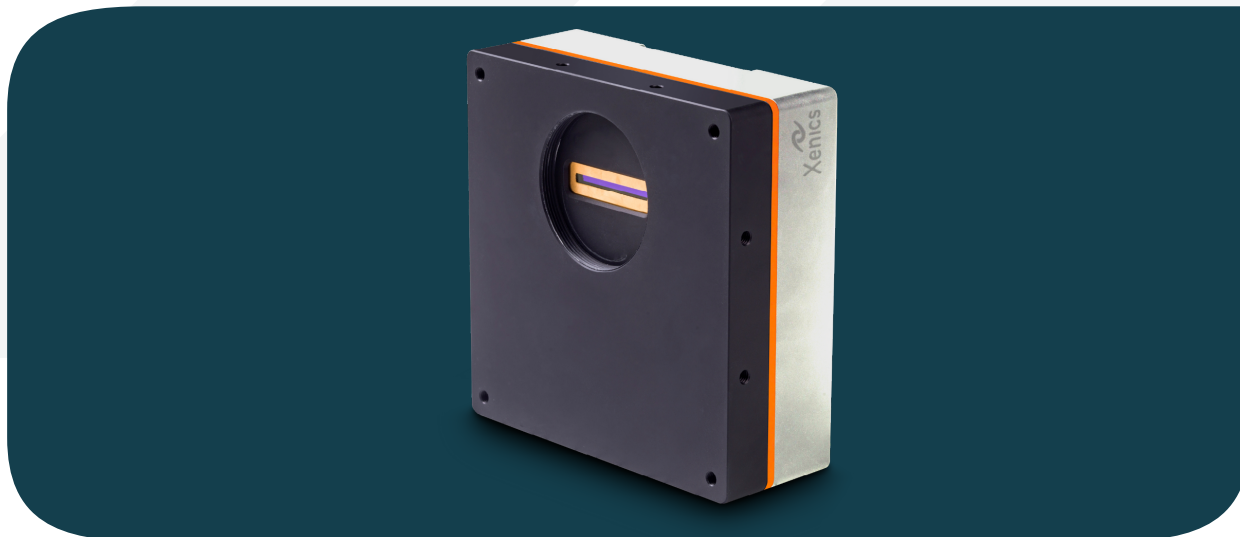
- ◆ World's fastest SWIR line-scan imaging up to 256 kHz
- ◆ Line-scan SWIR camera with 512, 1024, 2048 resolutions
- ◆ High resolution
- ◆ Low noise, low dark current
- ◆ Versatility with 4 gain modes
- ◆ CoaXPress interfacing for reliable streaming of data

Based on an in-house developed InGaAs linear detector, the Manx rectangular (R) is a high-performance short-wave infrared (SWIR) camera providing high speed and quality line-scan imaging. At unprecedented line rates of up to 256 kHz (or 128 kHz), the Manx R stands as the fastest line-scan InGaAs camera available in the world.

It presents the lowest noise performance record for a 2048 pixel SWIR linear camera, combined with excellent dynamic range. The use of CoaXPress interfacing enables fast and reliable data transfer. The Manx R products are suitable for spectroscopy and spectral-domain optical coherence tomography (OCT).

Manx R Series

EU based supplier



KEY PERFORMANCES

Sensor format/Pixel pitch	512 pixels; 1024 pixels; 2048 pixels/12.5 μm
Detector type	InGaAs photodiode array with CTIA ROIC
Integration type	Snapshot - global shutter
Spectral range	900 - 1700 nm
Power consumption	Up to 11 W (without TEC)
Power supply voltage	DC 24 V (via CoaXPress)

FUNCTIONS & INTERFACES

Command and control	CoaXPress
Connector trigger	Lemo (unified connector)
Camera dimensions (width x height x length)	102 mm x 102 mm x 40 mm
Optical interface	C-mount or M42 (M42 to F-mount adapter optional)
Camera weight	900 gr

PRODUCT SELECTOR GUIDE

XEN-000657 (Manx 512 R CXP 130)	XEN-000658 (Manx 1024 R CXP 130)
XEN-000659 (Manx 2048 R CXP 130)	XEN-000686 (Manx 512 R CXP 260)
XEN-000687 (Manx 1024 R CXP 260)	XEN-000688 (Manx 2048 R CXP 260)

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