Xenics
Photonis Group

Manx SQ Series

Line-scan SWIR Camera with Square Pixels

WORLD'S FASTEST InGaAs
LINE-SCAN CAMERA

Based on an in-house developed InGaAs linear detector, the Manx square (SQ) 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 square (SQ) 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 cameras have standard on-board image correction featuring non-uniformity correction (NUC), bad pixel replacement (BPR) and gain control.
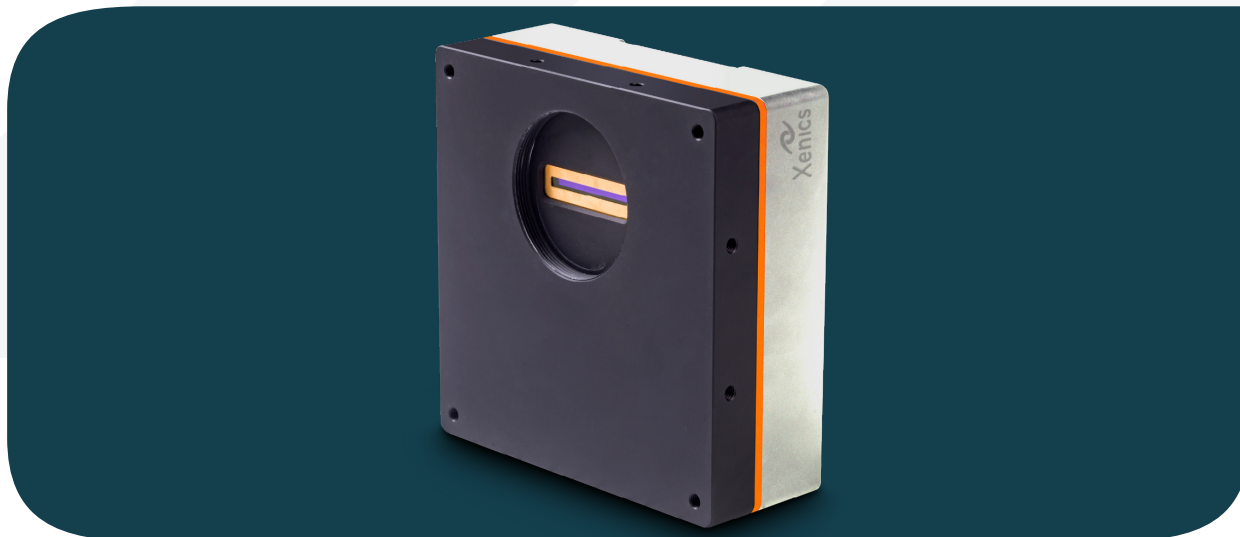
KEY FEATURES

◆ World's fastest SWIR line-scan imaging up to 256 kHz
◆ Line-scan SWIR camera with 512, 1024, 2048 resolution
◆ High resolution
◆ Low noise, low dark current
◆ Versatility with 4 gain modes
◆ CoaXPress interfacing for reliable streaming of data
◆ Suitable for industrial applications like silicon wafer inspection, TFT screen inspection. food and agricultural produce sorting

Manx SQ 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/Digital output format	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

FUNCTIONS & INTERFACES

XEN-000651 (Manx 512 SQ CXP 130)	XEN-000654 (Manx 512 SQ CXP 260)
XEN-000652 (Manx 1024 SQ CXP 130)	XEN-000655 (Manx 1024 SQ CXP 260)
XEN-000653 (Manx 2048 SQ CXP 130)	XEN-000656 (Manx 2048 SQ CXP 260)

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