

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

Manx SQ Series



WORLD'S FASTEST InGaAs LINE-SCAN CAMERA

KEY FEATURES



**WORLD'S FASTEST SWIR LINE-
SCAN IMAGING UP TO 256 kHz**



HIGH RESOLUTION



LOW NOISE, LOW DARK CURRENT

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.



Manx SQ Series



KEY PERFORMANCES

| | |
|---------------------------|---|
| Sensor format/Pixel pitch | 512 pixels; 1024 pixels; 2048 pixels/12.5 μ m |
| 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-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) |