

LYNRED®
See Beyond Horizons

SIROCCO SW-FPA™



SIROCCO SW-K588™



INFRARED DETECTORS

SIROCCO SW™

640 x 512 - 15µm - eSWIR



The infrared detector designed for spectrometry.
LYNRED MCT technology provides leading edge performance in terms of sensibility, noise, dark current and operability.

THE SOLUTION FOR SWIR
SPECTROMETRY AND
IMAGING UP TO 2.5µm



**HIGH SENSITIVITY IN THE WHOLE
SPECTRAL RESPONSE**



**INHERITED FROM SPACE
TECHNOLOGIES**



**AVAILABLE IN 2 DIFFERENT
VERSIONS: FPA & IDDCA**

SPECTROMETRY

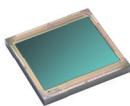
MACHINE
VISION

FIXED
SURVEILLANCE

MOBILE
SURVEILLANCE



ORDERING REFERENCE: SIROCCO SW- FPA™ / SIROCCO SW-K588™



MULTI-PURPOSE



VERSATILE



LOW NOISE



HIGH PERFORMANCE

•• THE SOLUTION FOR SWIR SPECTROMETRY AND IMAGING UP TO 2.5µm ••

ARRAY FEATURES

| | |
|-------------------|--------------------|
| Format | ■ 640 x 512 pixels |
| Pixel pitch | ■ 15µm |
| Sensor type | ■ MCT |
| Spectral response | ■ 0.8 - 2.5µm |

ROIC (READ-OUT INTEGRATED CIRCUIT) FEATURES

| | |
|--------------------------|--|
| Integration type | ■ Snapshot / Global shutter |
| Charge handling capacity | ■ 1.0 Me- |
| Input stage | ■ CTIA |
| Readout modes | ■ ITR / IWR |
| Integration time | ■ Externally controlled |
| Maximum full frame rate | ■ 200 frame/s |
| Specific operating mode | ■ Embedded support for windowing. Minimum window size is 160 x 2 |

TYPICAL PERFORMANCES

| | |
|-------------------------|---------------------------|
| Quantum Efficiency (QE) | ■ 80% from 0.8µm to 2.5µm |
| ROIC Noise | ■ 150 e- |
| Dark current | ■ 150 fA @ 190K |
| Array operability | ■ > 99.5% |

PACKAGING

| | SIROCCO SW FPA™ | SIROCCO SW K588™ |
|----------------------------|-------------------------|---|
| Dimensions | ■ 11.2 x 11.9 x 1.07 mm | ■ 55 x 79 x 66 mm |
| FPA operating temperature | ■ 150 - 200 K | ■ N/A |
| Video output | ■ 4 analog outputs | ■ CameraLink |
| Cooler | ■ N/A | ■ Split Linear cryocooler: Ricor K588 |
| Cool down time | ■ N/A | ■ < 200s @ 22°C |
| Power supply voltage range | ■ N/A | ■ 12 Vdc |
| Product Power Consumption | ■ N/A | ■ Cooldown : < 11 Wdc @ 22°C ■ Steady state : < 5.0 Wdc @ 22°C |

LYNRED HEADQUARTERS DEVELOPMENT & PRODUCTION CENTER

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