



**LYNRED®**  
See Beyond Horizons



INFRARED DETECTORS




# SEEGNUS MW SL™

1280x1024 - 7.5µm

THE NEW SEEGNUS MW SL™ product is particularly suitable for integration into high performance systems requiring compactness & high MTTF.

THE **FIRST** 7.5µm PITCH SXGA DETECTOR WITHIN THE **PLUGUP** PLATFORM

-  **HIGH IMAGE QUALITY**
-  **HIGH RESOLUTION**
-  **COMPACTNESS**
-  **EASY MECHANICAL INTEGRATION**

DEFENSE

MOBILE SURVEILLANCE

HTTI

GROUND VEHICLE



ORDERING REFERENCE: SEEGNUS MW SL™

TECHNICAL DATA NOT CLASSIFIED UNDER EXPORT CONTROL REGULATION



## ●● THE FIRST 7.5μM PITCH SXGA DETECTOR WITHIN THE PLUGUP PLATFORM ●●

### MULTI-PURPOSE



### LOW POWER



### COMPACT



### WEIGHT



### LOW ACOUSTIC NOISE

#### PRODUCT EMBEDDED FEATURES

IDCCA + PROXIMITY BOARD + CRYOCOOLER CONTROLER

#### ARRAY FEATURES

|                            |                |
|----------------------------|----------------|
| Detector spectral response | ■ 3.6 to 4.2μm |
| FPA operating temperature  | ■ Up to 150 K  |

#### ROIC (READ-OUT INTEGRATED CIRCUIT)

|                      |                    |
|----------------------|--------------------|
| Selection            | ■ IWR and ITR      |
| ROIC architecture    | ■ Direct Injection |
| ROIC functionalities | ■ Invert/Revert    |
| Windowing mode       | ■ Down to 640 x 4  |
| Frame rate           | ■ Up to 60Hz       |

#### TYPICAL PERFORMANCES

|                       |                            |
|-----------------------|----------------------------|
| NETD                  | ■ 42 mK (300K, 50%WF, f/3) |
| Array operability     | ■ > 99.5%                  |
| RFPN at 50% well fill | ■ < 0.5 x RMS noise        |

#### INTERFACES

|                      |                         |
|----------------------|-------------------------|
| Video output         | ■ CameraLink® Base Mode |
| Communication        | ■ CameraLink® UART      |
| Product Power Supply | ■ 12 Vdc typical        |

#### PHYSICAL CHARACTERISTICS

|                                    |                           |
|------------------------------------|---------------------------|
| Maximum Outline dimensions (LxWxH) | ■ 56 mm x 77 mm x 72.5 mm |
| Weight                             | ■ 360 g                   |

#### K588

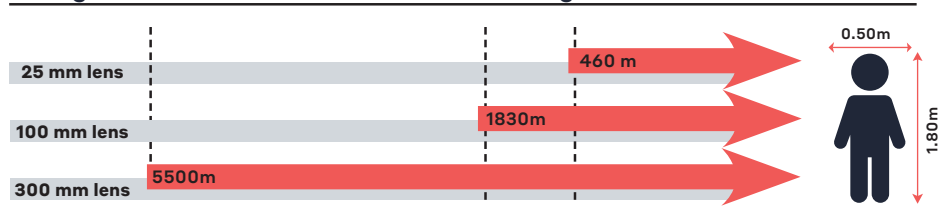
|                             |                        |
|-----------------------------|------------------------|
| Aperture                    | ■ f/4, f/3.4, f/3, f/2 |
| Regulated Input power @20°C | ■ <3.7Wdc              |
| Cooldown Input power @20°C  | ■ <13.5Wdc             |
| Cooldown time @20°C         | ■ <4min40s             |
| Cooler MTTF                 | ■ 32,000hrs            |

#### AVAILABLE SERVICES

Technical training and support



### Recognition distances for human measuring 1.80 m x 0.50 m



Range for Johnson's criteria, target deltaT = 2 K, perfect atmospheric and optics transmissions, theoretical square pixel.

#### LYNRED HEADQUARTERS DEVELOPMENT & PRODUCTION CENTER

Actipole - CS 10021 - 364, route de Valence  
38113 Veurey-Voroize - France  
Phone +33 (0)4 76 28 77 00  
info@lynred.com

#### LYNRED ASIA PACIFIC PTE LTD

5 Shenton Way,  
#22-04 UIC Building  
068808 Singapore  
info@lynred.com

#### LYNRED USA

373 US Highway 46W  
Fairfield, NJ 07004, USA  
Phone +1 973.882.0211  
info@lynred-usa.com

#### NIT (New Imaging Technologies) Premium SWIR by LYNRED

1 impasse de la Noisette  
91370 Verrières-le-Buisson - France  
Phone +33 1 64 47 88 58  
info@new-imaging-technologies.com

www.lynred.com

www.lynred-usa.com

www.new-imaging-technologies.com

in ▶

TECHNICAL DATA NOT CLASSIFIED UNDER EXPORT CONTROL REGULATION