



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

HHTI

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

IDDCA + PROXIMITY BOARD + CRYOCOOLER CONTROLLER

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
Charge handling capacity	■ 0.35 Me- / 0.6 Me- / 1.0 Me-
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 × 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

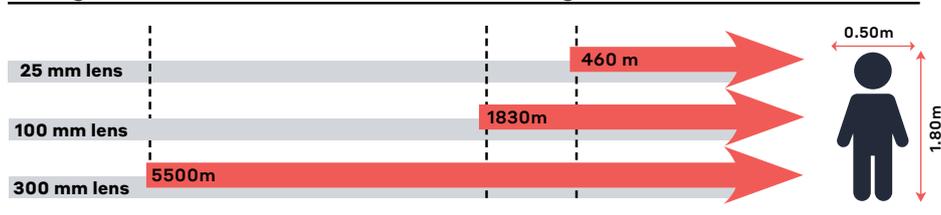
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Aperture	■ f/4, f/3.4, f/3, f/2
Regulated Input power @20°C	■ <3.7Wdc
Cooldown Input power @20°C	■ <13.5Wdc
Cooldown time @20°C	■ <4min40s
Cooler MTTF	■ 32,000hrs

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

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