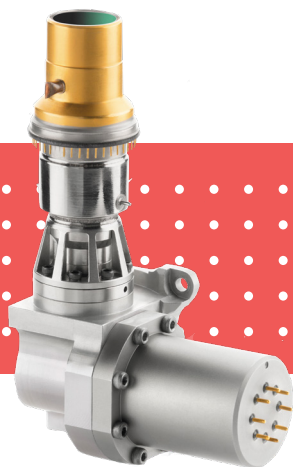




LYNRED USA



From wide spectral range, available on version up to 110K, the MWIR SCORPIO product range is designed to meet the requirements of numerous markets.



INFRARED DETECTORS

SCORPIO MW

PRODUCT RANGE

640 x 512 - 15 μ m - MCT

**A UNIQUE AND VERSATIL VGA
MWIR DETECTOR TO FIT ALL
YOUR REQUIREMENTS FOR YOUR
APPLICATIONS**



HIGH IMAGE QUALITY



PROVEN RELIABILITY

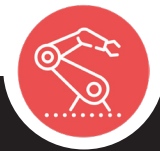


ROBUSTNESS

DEFENSE

SURVEILLANCE

INDUSTRY



ORDERING REFERENCE: **SCORPIO MW**

SCORPIO MW



RELIABILITY



HIGH PERFORMANCE



ROBUSTNESS



MULTI APPLICATIONS

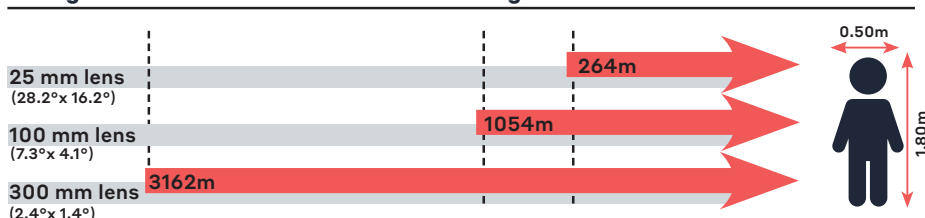
A UNIQUE AND VERSATIL VGA MWIR DETECTOR TO FIT ALL YOUR REQUIREMENTS FOR YOUR APPLICATIONS

ARRAY FEATURES					
Detector spectral response	■ 3.7 μm - 4.8 μm				
FPA Operating temperature	■ Up to 110 K				
ROIC (READ-OUT INTEGRATED CIRCUIT)					
Selection	■ Serial electrical interface				
ROIC architecture	■ Snapshot operation, direct injection input circuit, selectable read mode (IWR or ITR)				
ROIC functionalities	■ Programmable integration time ■ Anti-blooming				
Windowing modes	■ 640 x 512 / 640 x 480 / 512 x 512 or programmable				
Charge handling capacity	■ 6.5 10 ⁶ e- (for 100% well fill and ITR mode) or 5 10 ⁶ e- (for well fill and IWR mode)				
Electrical dynamic range	■ 1.5 V				
Readout noise	■ < 420 e-				
Signal outputs	■ 4				
Pixel output rate	■ Up to 10 mHz per output				
Frame rate	■ Up to 120 Hz full frame rate				
TYPICAL(*) PERFORMANCES					
NETD	■ 18 mK (293 K, 50% well fill, 100 Hz)				
Array operability	■ 99.8%				
Non uniformity (DC level and responsivity)	■ 2.5% RMS (σ /mean, 293 K uncorrected performance)				
	RM2	RM3	RM4(*)	K508	K508N(*)
FOV	f/2; f/4	f/2; f/4	f/4	f/2; f/4	f/4
Regulated input power (**)	< 3 W _{AC}	< 4.3 W _{DC}	< 4 W _{AC}	< 5 W _{DC}	< 4 W _{AC}
Cooldown input power (**)	< 10 W _{AC}	< 12.5 W _{DC}	< 18 W _{DC}	< 13.5 W _{DC}	< 15 W _{AC}
Power supply	12V	24V	24V	24V	24V
Cooldown time	5 min	4min50s	3 min	5min30s	3 min
Cooler dimensions (mm)	Ø 30.85 x L 82	Ø 46 x L71	Ø 46 x L71	Ø 46 x L71	Ø 46 x L71
Weight	< 0.45kg	< 0.57kg	< 0.6kg	< 0.6kg	< 0.6kg
Operating temperature	[- 40°C; +71°C]	[- 40°C; +71°C]	[- 40°C; +71°C]	[- 40°C; +71°C]	[- 40°C; +71°C]
MTTF	>20 000h	>10 000h	>15 000h	>10 000h	>20 000h

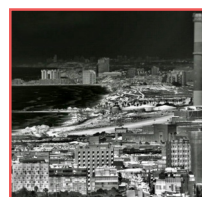
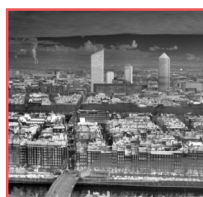
(*) Contact LYNRED for available configurations; (**) WDC = at cooler C&CE DC input

OPTIONS	
Technical training and support	
Demokit for easy image processing in lab	

Recognition distances for human measuring 1.80 m x 0.50 m



Range for Johnson's criteria, target $\Delta T = 2K$, perfect atmospheric and optics transmissions, theoretical square pixel.



Exclusive Distributor North America

LYNRED USA

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