

# DAPHNIS-XGA MW

1024 x 768 - 10  $\mu\text{m}$  - MCT

Built on proven technology, the Daphnis-XGA MW is the answer to your needs for VGA 15 $\mu\text{m}$  systems performance improvements.

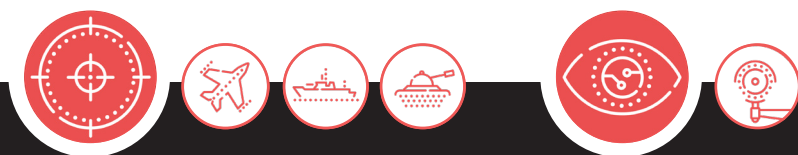
Offering the same chip size, this product provides simplified interface for an easy and quick integration into your system in 4/3 format.

## THE SOLUTION FOR AN **EASY UPGRADE** FROM THE **VGA 15 $\mu\text{m}$ PITCH**

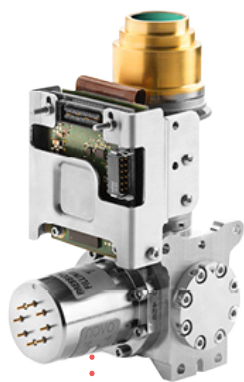
-  **COMPACTNESS**
-  **LONGER RANGE**
-  **LARGER FOV**
-  **IMPROVED RELIABILITY**

DEFENSE

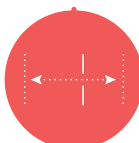
SURVEILLANCE



# DAPHNIS-XGA MW



RELIABILITY



LONGER RANGE



HIGH RESOLUTION

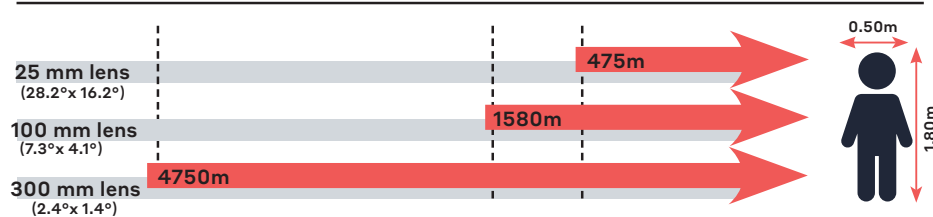
## THE SOLUTION FOR AN EASY UPGRADE FROM THE VGA 15µm PITCH

ARRAY FEATURES			
Detector spectral response	■ 3.7 µm - 4.8 µm		
FPA operating temperature	■ Up to 110 K		
ROIC ( READ-OUT INTEGRATED CIRCUIT )			
ROIC architecture	■ Digital outputs / Direct Injection input circuit		
ROIC functionalities	■ Programmable integration time, anti-blooming, invert/revert; binning, snapshot operation, (IWR or ITR), high dynamic range		
Windowing modes	■ 320 x 4 minimum programmable		
Charge handling capacity	■ 3 main gains: 1.1 Me-, 2.7 Me-, 5.6 Me-		
INPUT / OUTPUT			
Board Power supply	■ 6V <sub>DC</sub>		
Video output	■ 14 bits, cameralink®		
Frame rate	■ Up to 85 Hz full frame rate		
TYPICAL PERFORMANCES			
NETD	■ 20 mK (293K, 70% well fill, 2.7 Me-)		
Array operability	■ 99.8%		
	RM2	RM3	K508N
FOV / Driving electronics (*)	f/2 to f/4	f/2 to f/4	f/2 to f/4
Cooler power supply	12 V	24 V	24 V
Cooler power @ 20°C (regulation/cooldown) (**)	4 W <sub>DC</sub> / 12 W <sub>DC</sub>	4W <sub>DC</sub> / 13 W <sub>DC</sub>	4 W <sub>DC</sub> / 13 W <sub>DC</sub>
Cooldown time @ 20°C	6 min	5 min	4 min 30 s
Cooler dimensions (mm)	Ø 30.5 x L 82	Ø 46 x L 71	Ø 46 x L 71
IDCA height (optical axis, mm)	H < 123.5	H < 144	H < 144
Weight	0.47 kg	0.64 kg	0.67 kg
Operating temperature	[- 40° C; 71° C]	[- 40° C; 71° C]	[- 40° C; 71° C]
MTTF for 24/7 typical surveillance profile in hot conditions	27.000 h	9.700 h	27.000 h

(\*) Contact LYNRED for available configurations, (\*\*) W<sub>DC</sub> = at cooler C&CE DC input

OPTIONS	
Technical training and support	
Demokit for easy image processing in lab	
Proximity driving electronics (Including ADC)	

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



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



**LYNRED HEADQUARTERS**  
 Avenue de la Vauve - CS 20018  
 91127 Palaiseau - France  
 Phone +33 (0)1 60 92 18 30  
 info@lynred.com

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