

DAPHNIS-XGA MW

1024 x 768 - 10 μm - MCT

Built on proven technology, the Daphnis-XGA MW is the answer to your needs for VGA 15 μm 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 μm PITCH**



COMPACTNESS



LONGER RANGE



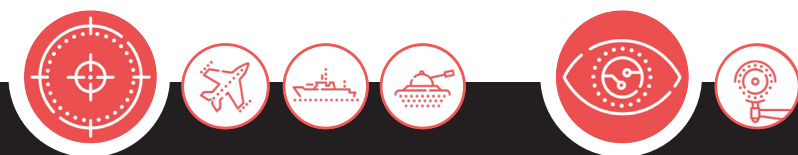
LARGER FOV



IMPROVED RELIABILITY

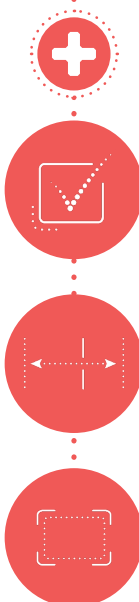
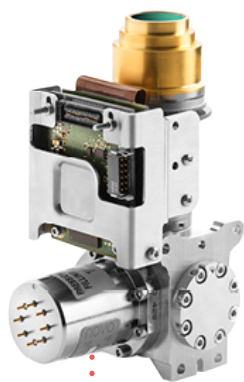
DEFENSE

SURVEILLANCE



ORDERING REFERENCE: **DAPHNIS-XGA MW**

DAPHNIS-XGA MW



RELIABILITY

LONGER RANGE

HIGH RESOLUTION

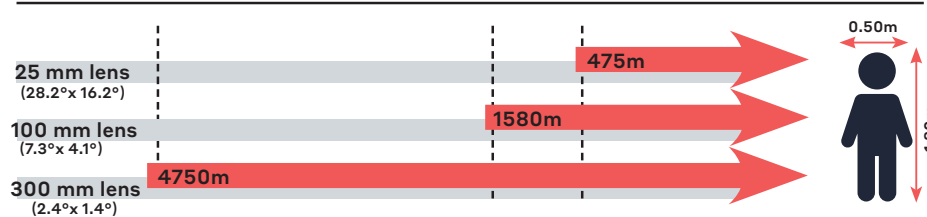
THE SOLUTION FOR AN EASY UPGRADE FROM THE VGA 15µm PITCH

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 _{DC}		
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 _{DC} / 12 W _{DC}	4W _{DC} / 13 W _{DC}	4 W _{DC} / 13 W _{DC}
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_{DC} = 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