

DAPHNIS-XGA MW

1024 x 768 - 10 μm - MCT

NEW: CO₂ NOTCH FILTER

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

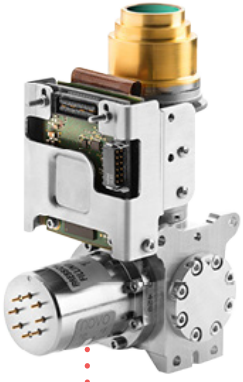
SURVEILLANCE



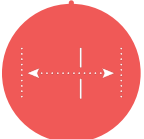
ORDERING REFERENCE: DAPHNIS-XGA MW

DAPHNIS-XGA MW

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



RELIABILITY



LONGER RANGE



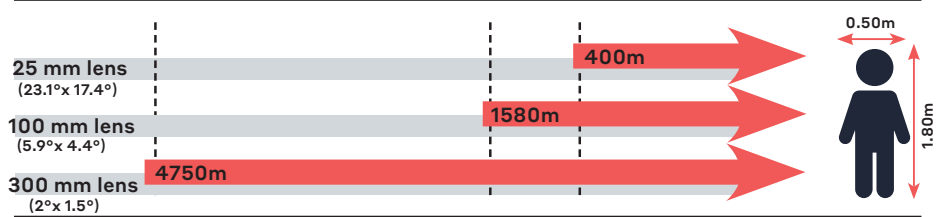
HIGH RESOLUTION

ARRAY FEATURES			
Detector spectral response	■ 3.7 μm - 4.8 μm		
CO2 Notch Option	■ [3.4 μm - 4.2 μm + 4.5 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	
CO ₂ notch filter available for improved performance contrast and +5% to +10% range increase	

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