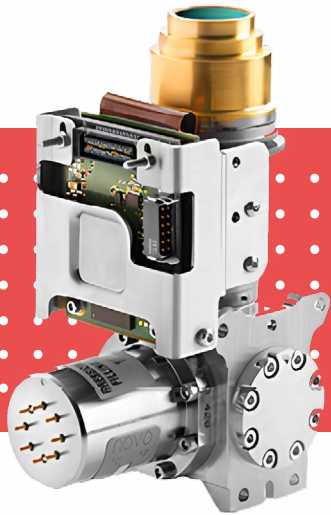




LYNRED®

See Beyond Horizons



INFRARED DETECTORS

DAPHNIS-HD MW™

1280 x 720 - 10µm pitch - MCT

AVAILABLE WITH: CO₂ NOTCH FILTER

Based on proven technology, the DAPHNIS HD MW™ is renowned for its high-resolution images and its high reliability. It is a best seller in high volume production.

THE BEST PRODUCT FOR ALL APPLICATIONS REQUIRING 16:9 HD FORMAT

-  **COMPACTNESS**
-  **LONGER RANGE**
-  **LARGE FOV**
-  **HIGH RELIABILITY**

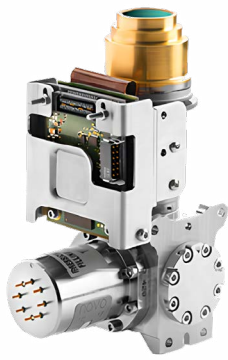
DEFENSE

SURVEILLANCE



ORDERING REFERENCE: DAPHNIS-HD MW™

TECHNICAL DATA NOT CLASSIFIED UNDER EXPORT CONTROL REGULATION



●● THE BEST PRODUCT FOR ALL APPLICATIONS REQUIRING 16:9 HD FORMAT ●●

MULTI-PURPOSE



RELIABILITY



LONGER RANGE



HIGH RESOLUTION

ARRAY FEATURES

Detector spectral response	■ 3.7 to 4.8 μ m
CO2 Notch Option	■ [3.4 μ m - 4.2 μ m + 4.5 μ m - 4.8 μ m]
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 (AVERAGED EXPECTED VALUES)

NETD	■ 20 mK (293K, 70% well fill, 2.7 Me-)		
Array operability	■ > 99.8%		
	RM2	RM3	K508N
FOV (*)	f/2, f/3, f/3.4, f/4	f/2, f/3	f/2, f/3, f/4
Cooler power supply	12V	24V	24V
Cooler power @ 20°C (regulation/cooldown) (**)	3 W _{DC} / 12 W _{DC}	5 W _{DC} / 13 W _{DC}	5 W _{DC} / 13 W _{DC}
Cooldown time @ 20°C	6 min 15s	5 min	5 min
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]
Product MTTF for surveillance profile in hot conditions	25.000 h	19.000 h	22.000 h

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

OPTIONS

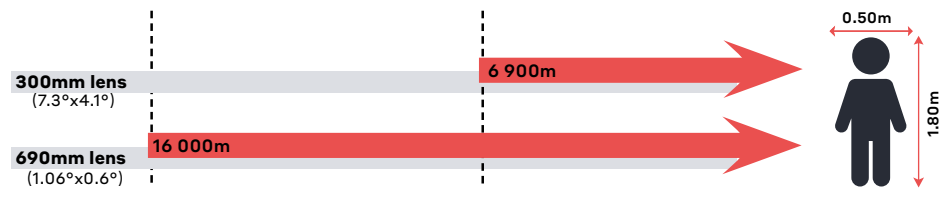
Technical training and support

Demokit for easy image processing in lab

CO2 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 with Standard DAPHNIS



Range for Johnson's criteria, target deltaT = 2 K, perfect atmospheric and f/4 optics transmission.

LYNRED HEADQUARTERS DEVELOPMENT & PRODUCTION CENTER

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