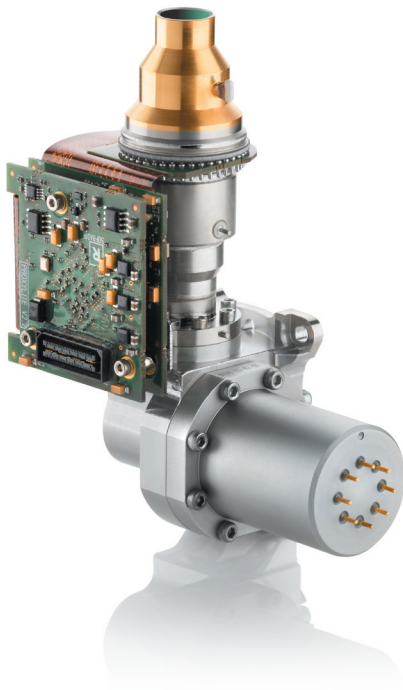


# LEO MW

640 x 512 - 15  $\mu\text{m}$  pitch - MCT

→ The VGA 15 $\mu\text{m}$  pitch MWIR detector with a digital interface.



LEO MW is a compact detector specially designed for SWAP (optimised size, weight and power) MWIR (3 - 5  $\mu\text{m}$ ) applications.

Thanks to its digital output, this product simplifies your interfaces and speeds up the development of your systems.

This high-performance IDCA takes full advantage of Lynred's state of the art technologies.

## ARRAY FEATURES

Format	640 x 512
Pixel pitch	15 x 15
Detector spectral response	3.7 $\mu\text{m}$ – 4.8 $\mu\text{m}$
FPA Operating temperature	80 K

## ROIC (READ-OUT INTEGRATED CIRCUIT)

Selection	Serial electrical interface (driven by the proxy board)
ROIC architecture	Snapshot operation, direct injection input circuit, selectable read mode (IWR or ITR)
ROIC functionalities	Programmable integration time, anti-blooming, image invert / revert / inverse
Windowing modes	640 x 512 / 640 x 480 / 512 x 512 or programmable
Charge handling capacity	6.5 $10^6$ e- (ITR mode), 5 $10^6$ e- (IWR mode)
Signal outputs	Digital, 14 bits, CAMERALINK®
Frame rate	Up to 60 Hz full frame rate

## INPUT / OUTPUT

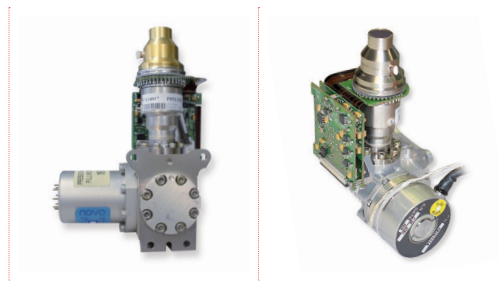
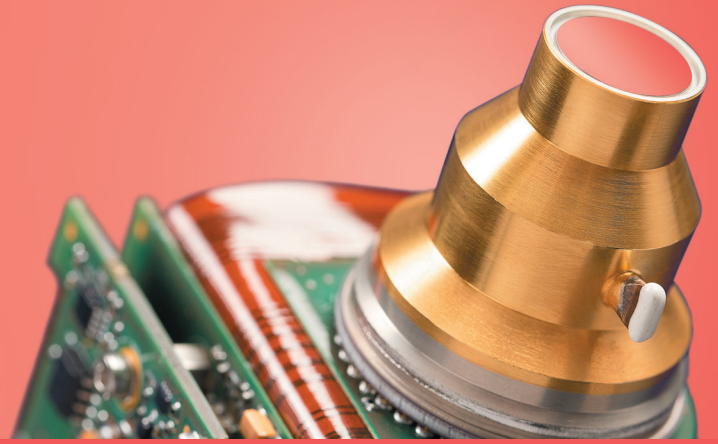
Board power supply	5 V
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LEO MW

# LEO MW

640 x 512 - 15  $\mu\text{m}$  pitch - MCT

→ The VGA 15 $\mu\text{m}$  pitch MWIR detector with a digital interface.



## TYPICAL(\*) PERFORMANCES

NETD	20 mK (293 K, f/5.5, 50 % well fill, 60 Hz)	
Array operability	99.9%	
Non uniformity	2.5% RMS ( $\sigma$ /mean, 300 K uncorrected performance)	
	RM2	K563
FOV	f/4; f/5.5	f/4; f/5.5
Regulated input power (**)	5.3 W <sub>DC</sub>	5.3 W <sub>DC</sub>
Cooldown input power (**)	12.4 W <sub>DC</sub>	11.8 W <sub>DC</sub>
Power supply	12 V	12 V
Cooldown time	4 min 10 s	4 min 10 s
Cooler dimensions (mm)	Ø 30.85 x L 82	Ø 37.8 x L 59
IDCA height (optical axis, mm)	119.2	119.2
Weight	< 0.355 kg	0.38 kg
Operating temperature	- 40° C to 65° C	- 40° C to 65° C

(\*) Optional extended waveband : 40% @ 0.5  $\mu\text{m}$ , 75% @ 0.8  $\mu\text{m}$ , >80% from 0.9  $\mu\text{m}$  to 1.6  $\mu\text{m}$

(\*\*) W<sub>DC</sub> = at cooler C&CE DC input

## OPTIONS

Technical training and support

## APPLICATIONS



Technical characteristics described in this data sheet are for information only. They are not contractual and may change without prior notice.

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LEO MW