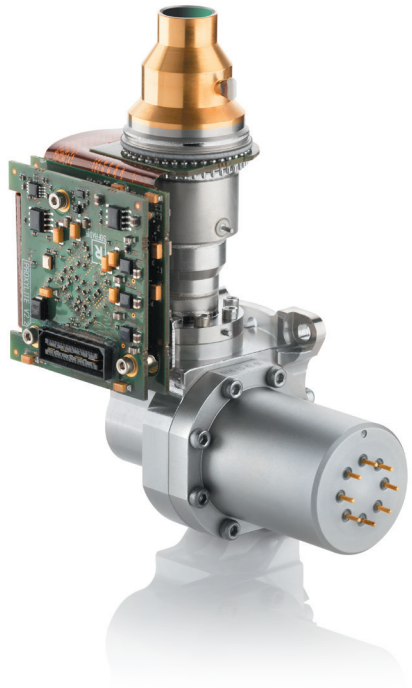
LEO MW

640 x 512 - 15 µm pitch - MCT

→ The VGA 15µm 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 µm) 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 Sofradir's state of the art technologies.

LEO MW

ARRAY FEATURES

Format	640 x 512
Pixel pitch	15 µm x 15 µm
Detector spectral response	3.7 µm – 4.8 µm
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

SOFRADIR
Sensing your future

LEO MW

640 x 512 - 15 µm pitch - MCT

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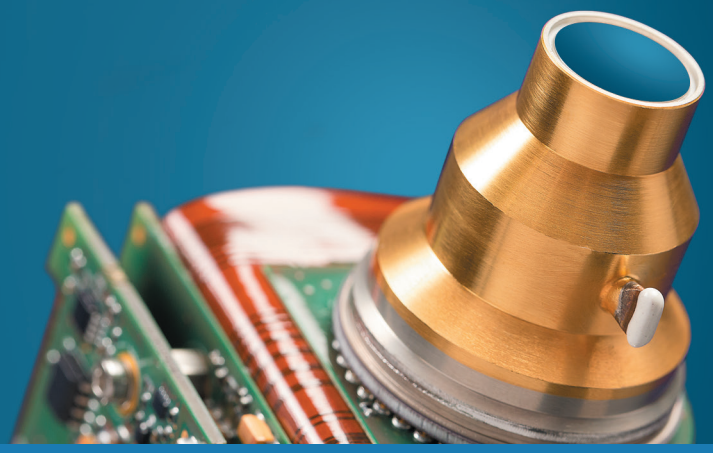

LEO MW

TYPICAL(*) PERFORMANCES

NETD	20 mK (293 K, f/5.5, 50 % well fill, 60 Hz)
Array operability	99.9%
Non uniformity	2.5% RMS (σ/mean, 300 K uncorrected performance)

	RM2	K563
FOV	f/4; f/5.5	f/4; f/5.5
Regulated input power (**)	5.3 W_{DC}	5.3 W_{DC}
Cooldown input power (**)	12.4 W_{DC}	11.8 W_{DC}
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 71° C	- 40° C to 71° C

(*) Optional extended waveband : 40% @ 0.5 µm, 75% @ 0.8 µm, >80% from 0.9 µm to 1.6 µm
(**) W_{DC} = at cooler C&CE DC input

OPTIONS

Technical training and support

APPLICATIONS

Exclusive Distributor - North America

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

SOFRADIR-EC

SOFRADIR-EC
373 Route 46W, Fairfield, NJ 07004 USA
Phone: 973-882-0211 Fax: 973-882-0997
Email: info@sofradir-ec.com
www.sofradir-ec.com

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