

640 x 512 - 15 μm pitch - MCT

THE VGA 15 µM 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.

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 	Up to 120 K, 90 K typical

ROIC (READ-OUT INTEGRA	ATED 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
 Window modes 	640 x 512 / 640 x 480 / 512 x 512 or programmable
 Charge handling capacity 	6.5 106 e- (ITR mode), 5 106 e- (IWR mode)
 Signal outputs 	Digital, 14 bits, Cameralink
 Frame rate 	Up to 60 Hz full frame rate



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ELECTRO-OPTICAL TYPICAL PERFORMANCES

Typical NETD	20 mK (293 K, f/5.5, 50 % well fill, 60 Hz)
Array operability	> 99.5 % typical
Non uniformity	< 5 % RMS (σ/mean, 300 K uncorrected performance)

	RM2	K563
FOV	f/4; f/5.5	f/4; f/5.5
Regulated input power (all included)	< 6 WDC (*)	< 6 WDC (*)
Cooldown input power	< 15 WDC (*)	< 15 WDC (*)
Power supply	9 V	12 V
Cooldown time	< 4 min 30 s	< 4 min 30 s
Weight	< 0.42 kg	0.37 kg
Operating Temperatures	- 40° C / + 71° C	- 40° C / + 71° C

(*) WDC = 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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