

SWAP-C LEO MW

640 x 512 - 15 μm pitch - improved MCT



**THE COMPACT AND COST-EFFECTIVE
VGA 15 μm PITCH MWIR DETECTOR
WITH A DIGITAL INTERFACE.**



SWap-C LEO MW optimizes the Size, Weight and Cost of your systems.

SWap-C LEO MW digital output detector is part of the LEO family specially designed for SWAP MWIR (3 - 5 μm) applications and take full advantage of Sofradir's state of the art technologies.



Compared to other LEO, SWap-C LEO MW will have the following direct benefits for your systems:

-15% on IDCA height	Higher system compactness
-20% on IDCA weight	Lower portable system weight for reduced soldier burden
Increased cost-effective manufacturing	For cost-driven systems

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	110 K typical

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
• Window 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

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TYPICAL PERFORMANCES(**)

	K562S
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)
FOV	f/5.5
Regulated input power (all included)	5.2 Wdc (*)
Cooldown input power	10.5 Wdc (*)
Power supply	12 V
Cooldown time	4 min 30 s
Cooler dimensions	\varnothing 28.4 x L 69mm (with acoustic pad)
IDCA height (optical) Axis	102.9mm
Weight	0.30 kg
Operating Temperatures	- 40° C / + 71° C

(*) Wdc = at cooler C&CE DC input

(**) Typical = Expected production mean value

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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