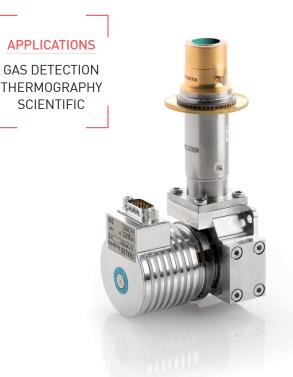
SCORPIO BBMW

640 x 512 - 15 µm pitch - MCT

→ The broadband Mid-wave VGA 15 µm pitch detector for scientific and industrial applications.



SCORPIO BBMW a versatile broadband Mid-wave VGA 15 µm pitch detector.

Thanks to its high sensitivity, SCORPIO BBMW can be used as a broadband detector ranging from 1.5 μ m to 5 μ m, or with the integration of a customer application dedicated filter, in order to detect specific wavelengths.

SCORPIO BBMW is the best choice to address a large range of scientific and industrial applications, such as thermography and gas detection.

SCORPIO BBMW benefits from SCORPIO MW product range industrial maturity, guarantying best performances, excellent reliability and robustness in harsh environments

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

ARRAY FEATURES

Format	640 x 512
Pixel pitch	15 μm x 15 μm
Detector spectral response	1.5 μm – 5 μm
FPA Operating temperature	Up to 90 K

ROIC (READ-OUT INTEGRATED CIRCUIT)

Selection	Serial electrical interface		
ROIC architecture	Snapshot operation, direct injection input circuit, selectable read mode (IWR or IT		
ROIC functionalities	Programmable integration time, anti-blooming		
Windowing modes	640 x 512 / 640 x 480 / 512 x 512 or programmable		
Charge handling capacity	6.5 10 ⁶ e- (for 100% well fill and ITR mode) or 5 10 ⁶ e- (for 100% well fill and IWR mode)		
Electrical dynamic range	1.5 V		
Readout noise	< 420 e-		
Signal outputs	4		
Pixel output rate	Up to 10 MHz per output		
Frame rate	Up to 120 Hz full frame rate		

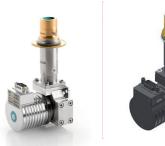


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ightarrow The broadband Mid-wave VGA 15 µm pitch detector for scientific and industrial applications.







TYPICAL^[*] **PERFORMANCES**

NETD	< 18 mK (293 K, 50 °	< 18 mK (293 K, 50 % well fill, 100 Hz)		
Array operability	99.8%	99.8%		
Non uniformity (DC level and responsivity)	2.5% RMS (σ/mean, performance)	2.5% RMS (σ /mean, 293 K uncorrected performance)		
	RM3	SRI401		
FOV	f/3	f/3		
Regulated input power	5 W _{DC} (***)	5.7(**) W _{DC} (***)		
Cooldown input power	13.2 W _{DC} (***)	12.6(**) W _{DC} (***)		
Power supply	24 V	24 V		
Cooldown time	5 min 30 s	5 min 50 s(**)		
Cooler dimensions (mm)	Ø 46 × L 71	Ø 46 × L 71		
Weight	0.57 kg	0.65 kg		
Operating temperature	- 40° C to 71° C	- 40° C to 71° C		
(*) Optimal subseries of a low subseries (20% CO E upper 75% CO Course to 200% for an CO upper to 1 / upper				

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

OPTIONS

Proximity driving electronics (including ADC)

Technical training and support

Other cooler configuration to be evaluated

APPLICATIONS



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

Exclusive Distributor North America

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