

INFRARED DETECTORS

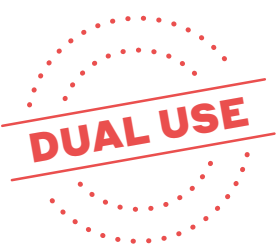


SCORPIO MW Broadband

640 x 512 - 15 μ m - MCT

Thanks to its wide spectral band, the Scorpio MW Broadband is designed to meet the requirements of machine vision hyperspectral applications and gas detection applications also.

A DEDICATED **VGA MWIR** DETECTOR FOR INDUSTRIAL APPLICATIONS



+ HIGH IMAGE QUALITY

+ LARGE SPECTRAL BAND SENSITIVITY

+ RELIABILITY

MACHINE VISION

GAS DETECTION





SENSITIVITY & VELOCITY



WIDE SPECTRAL BAND



RELIABILITY



MULTI APPLICATIONS

●● A DEDICATED **VGA MWIR DETECTOR** FOR INDUSTRIAL APPLICATIONS ●●

ARRAY FEATURES

Detector spectral response	■ 1.5 μm to 6 μm
FPA Operating temperature	■ Up to 110 K

ROIC (READ-OUT INTEGRATED CIRCUIT)

Selection	■ Serial electrical interface
ROIC architecture	■ Snapshot operation, direct injection input circuit, selectable read mode (IWR or ITR)
ROIC functionalities	■ Programmable integration time ■ Anti-blooming
Windowing modes	■ 640 x 512 / 640 x 480 / 512 x 512 or programmable
Charge handling capacity	■ 6.4 10^6 e- (for 100% well fill and ITR mode) ■ 5 10^6 e- (for well fill and IWR mode)
Electrical dynamic range	■ 1.5 V
Signal outputs	■ 4
Pixel output rate	■ Up to 10 MHz per output
Frame rate	■ Up to 120 Hz full frame rate

TYPICAL(*) PERFORMANCES

NETD	■ 22 mK (293 K, 50% well fill, 100 Hz)	
Array operability	■ 99.6%	
Non uniformity (DC level and responsivity)	■ 2.5% RMS (σ /mean, 293 K uncorrected performance)	
	RM3	K508
FOV	f/2; f/3	f/2
Regulated input power (*)	< 7 W_{DC}	< 7 W_{DC}
Cooldown input power (*)	< 17 W_{DC}	< 17 W_{DC}
Power supply	24V	24V
Cooldown time	< 7min30s	< 7min30s
Cooler dimensions (mm)	\emptyset 46 x L71	\emptyset 46 x L71
Weight	< 570gr	< 570gr
Operating temperature	[- 40°C; +71°C]	[- 40°C; +71°C]
MTTF	>10 000 h	>10 000 h

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

OPTIONS

Technical training and support
Demokit for easy image processing in lab



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