



RESEARCH & DEVELOPMENT



OPTICAL GAS IMAGING



MACHINE VISION



HIGH-PERFORMANCE INFRARED CAMERAS THAT TRANSFORM YOUR RESEARCH

- +** VARIOUS OPTIONS OF LYNRED IDDCA
- +** OPEN/CLOSED CHASSIS AVAILABLE
- +** HIGH FRAME RATES, HIGH SENSITIVITY
- +** LOW POWER, COMPACT DESIGN
- +** FLEXIBLE LENS CONFIGURATIONS

AVAILABLE CAMERA FEATURES	IMAGE PROCESSING FEATURES
ON-BOARD UNIFORMITY CORRECTION AND BPR	BINNING
14-BIT CAMERA LINK OUTPUT	EDGE-ENHANCEMENT
CONNECTION KIT (FACILITATES TESTING)	EDGE SHARPENING
WINDOWS GRAPHIC USER INTERFACE	HISTOGRAM EQUALIZATION
PLUG-AND-PLAY OEM OPERATION	FLIP VIDEO
DESKTOP ANALYSIS SOFTWARE	DIGITAL ZOOM*
C++ SOFTWARE DEVELOPMENT KIT	

* Indicates feature that may affect frame rate

<i>* Information based on typical performances and availability</i>	MiTiE SCORPIO BB MW	MiTiE SCORPIO MW	MiTiE SCORPIO LW	MiTiE MARS VLW
Format (resolution)	640 x 512	640 x 512	640 x 512	320 x 256
Pixel Pitch	15µm	15µm	15µm	30µm
Detector Material	MCT	MCT	MCT	MCT
Spectral Response	1.5 - 6µm	3.7 - 4.8µm	7.7 - 9.3µm	7.7 - 11.7µm
Detector NETD (typical)	22 mK	") mK	20 mK	17 mK
Frame Rate	Up to 120Hz full frame rate	Up to 120Hz (full frame), 1 KHz @ 166 x 166, > 3.2 KHz @ 160 x 1	Up to 120Hz (full frame), 1 KHz @ 185 x 185, 14.6 KHz @ 160 x 1	Up to 320Hz full frame rate
FPA Operating Temp.	up to 110 K	up to 110 K	up to 90 K	50 K to 75 K
(ROIC) Selection	Serial electrical interface	Serial electrical interface	Serial electrical interface	Parallel & serial electrical interface
(ROIC) architecture	Snapshot operation, direct injection input circuit, selectable read mode (ITR/IWR)	Snapshot operation, direct injection input circuit, selectable read mode (ITR/IWR)	Snapshot, direct injection, Integrate then Read (ITR)	Snapshot, direct injection, Integrate then Read (ITR)
(ROIC) functionalities	Programmable integration time, anti-blooming	Programmable integration time, anti-blooming	Programmable integration time, anti-blooming, image invert / revert / inverse, interlaced mode	Programmable integration time, anti-blooming
Array Operability	99.6%	99.8%	99.8%	99.6%
Digital Output	HDMI, 14-bit Camera Link	HDMI, 14-bit Camera Link	HDMI, 14-bit Camera Link	HDMI, 14-bit Camera Link
Video Output	NTSC or PAL	NTSC or PAL	NTSC or PAL	NTSC or PAL
Cooldown Time	< 7min30s	4min50s (RM3 cooler), 5min30s (K508 cooler)	6-7 min (K508 & RM3 cooler), 3.5 min (LSF)	6 min
NUC	2.5% RMS (σ/mean, 293 K uncorrected performance)	2.5% RMS (σ/mean, 293 K uncorrected performance)	<20 mK (293K, 50% well fill, 85 Hz)	5% RMS (σ/mean, 300 K uncorrected performance)
FOV	f/2, f/3	f/2, f/4	f/2; f/2.24; f/1.76	f/2
Operating Temp.	[- 40°C; +71°C]	[- 40°C; +71°C]	[- 40°C; +71°C]	[- 40°C; +71°C]
Cooler Options	RM3, K508N	K508, RM3, RM2	K508, RM3, LSF	LS5-7i
Dimensions	19.2 x 11.4 x 12.7 cm (Enclosed) 14.9 x 7.7 x 7.6 cm (Open, no lens)	19.2 x 11.4 x 12.7 cm (Enclosed) 14.9 x 7.7 x 7.6 cm (Open, no lens)	20.6 x 11.4 x 12.7 cm (Enclosed) 14.9 x 7.7 x 7.6 cm (Open, no lens)	27.1 x 18.5 x 17 cm (Enclosed) 18.8 x 10.9 x 12.3 cm (Open, no lens)