SHORT WAVE INFRARED CAMERAS.

The FAST-*SWIR* camera line is the fastest infrared camera line available in the SWIR band. Ideal for analyzing dynamic events, the FAST-*SWIR* infrared cameras are also highly sensitive, thanks to their unique low noise detector.

The FAST-S800

KEY BENEFITS

HIGH FRAME RATE

High performance electronics produce thermal images at rates of up to 1 730 fps. Subwindows can even be acquired at rates higher than 150 000 fps, depending on the model and selected subwindow size.

Camera Link interface ensures reliable, lossless data transfer.

SPECTRAL BAND OPTIONS

Standard SWIR detector covers 0.9 to 1.7 µm. Optional VSWIR detector covers from 0.4 µm to 1.7.

HIGH SENSITIVITY

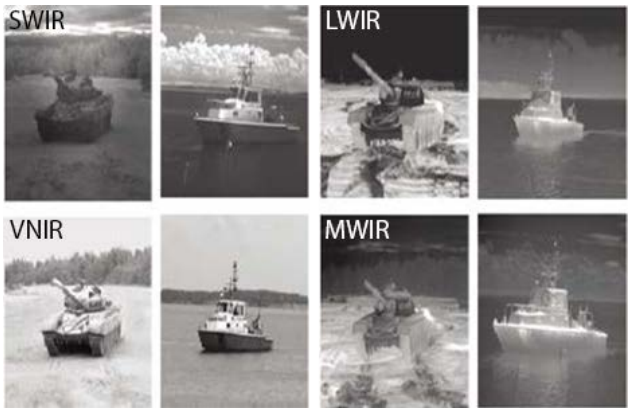
Peak QE is 80% while dark current is as low as 0.1×10^6 e-/s/pixel.

OPTIC MOUNTS

The camera comes with a C-mount interface, allowing the use of a wide variety of commercial and custom lenses.

EXAMPLES OF TYPICAL USES

IR Signature



Courtesy of Office of Naval Research and US Army Night Vision and Electronic Sensors Directorate

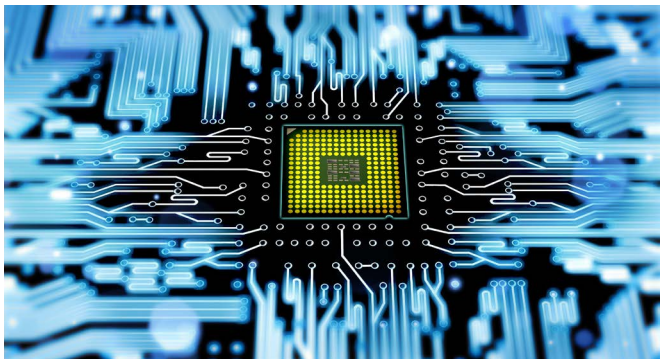
Target Ranging

FAST-*SWIR* Series.		
SPECIFICATIONS	FAST S800	FAST S2*k*
PIXEL SIZE	20 µm x 20 µm	
SPECTRAL BAND	0.9 µm to 1.7 µm opt.: 0.4 µm to 1.7 µm (VisNIR)	
SPATIAL RESOLUTION	640 × 512 pixels	
WINDOW OF INTEREST	Yes | Minimum size 32 x 4 pixels	
MAXIMUM FRAME RATE (FULL WINDOW)	865 Hz	1 730 Hz
MAXIMUM FRAME RATE (IN SUBWINDOW)	33 000 Hz @ 32 x 32	150 000 Hz @ 32 x 4
ROIC NOISE	High gain: 138 e-	
DARK CURRENT	<0.1 x 106 e-/s/pixel at 288k	
EXPOSURE TIME RANGE	1 µs up 40 ms @ 25 °C sensor temperature (high gain mode)	

Specifications are subject to change without notice. Other configurations are available upon request.

Welding

Semiconductor analysis



OTHER SPECS & FEATURES	
Camera Control	Camera Link (Serial LVDS Line on Camera Link Port 1)
Camera Cooling	Forced Air Cooling
Ambient Operating Temperature	0 °C to 50 °C
Dimensions	140 W x 135 H x 90 L mm
Weight (Camera Head)	2 kg

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