

FAST-SWIR Family



SHORT WAVE
INFRARED CAMERAS

KEY FEATURES



HIGH FRAME RATE



SPECTRAL BAND OPTIONS



HIGH SENSITIVITY

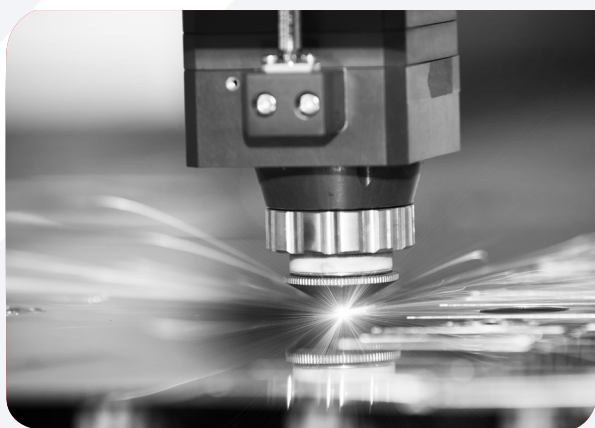


OPTIC MOUNTS

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.



FAST-SWIR Family



Welding



Target Ranging

FAST-SWIR Series

SPECIFICATIONS	FAST S800	FAST S2K
Pixel Size	20 μm x 20 μm	20 μm x 20 μm
Spectral Band	0.9 μm to 1.7 μm opt.: 0.4 μm to 1.7 μm (VisNIR)	0.9 μm to 1.7 μm opt.: 0.4 μm to 1.7 μm (VisNIR)
Spatial Resolution	640 x 512 pixels	640 x 512 pixels
Window of Interest	Yes Minimum size 32 x 4 pixels	Yes Minimum size 32 x 4 pixels
Max. Frame Rate (Full Window)	865 Hz 33 000 Hz @ 32 x 32	1 730 Hz
Max. Frame Rate (Subwindow)	865 Hz 33 000 Hz @ 32 x 32	150 000 Hz @ 32 x 4
Roic Noise	High gain: 60 e ⁻ ; low gain: 138 e	High gain: 60 e ⁻ ; low gain: 138 e
Dark Current	0.19 x 106 e ⁻ /s/pixel or 30 fA @ 200mV bias at 288 K	0.19 x 106 e ⁻ /s/pixel or 30 fA @ 200mV bias at 288 K
Exposure Time Range	1 μs up 40 ms @ 25 °C sensor temperature (high gain mode) or up to 100 ms @ 268 K sensor temperature (high gain mode)	1 μs up 40 ms @ 25 °C sensor temperature (high gain mode) or up to 100 ms @ 268 K sensor temperature (high gain mode)

OTHER SPECS & FEATURES

Camera Control	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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