



The IP-67 certified enclosure

FAST SWIR RADIOMETRIC CAMERAS

FAST S1K是全球速度最快的短波红外热像仪。FAST S1K可高速完美记录热目标的红外特性和温度场变化。

她是全球唯一的能够640*512画幅下达到1000HZ的辐射成像测温型短波红外热像仪。其超低噪声探测器使其具有高灵敏度,对弱光条件下目标也能完美测量。

KEY BENEFITS

高帧频

高性能的成像电路以高达每秒1000张红外图像的速率生成温度场图像。子窗口模式甚至可以获得每秒109 000张的红外温度场图像。

Camera Link接口能够保证可靠无损的实时数据传输。



The camera features a 16 GB (expandable) memory for autonomous operation.

ADVANCED CALIBRATION

Unique proprietary real-time processing of infrared images including NUC, radiometric temperature, automated exposure control (AEC) and enhanced high-dynamic-range imaging (EHDMI). With these unique features, scientists benefit from ease of use and operation flexibility while getting accurate measurements over the entire camera's operation range.

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



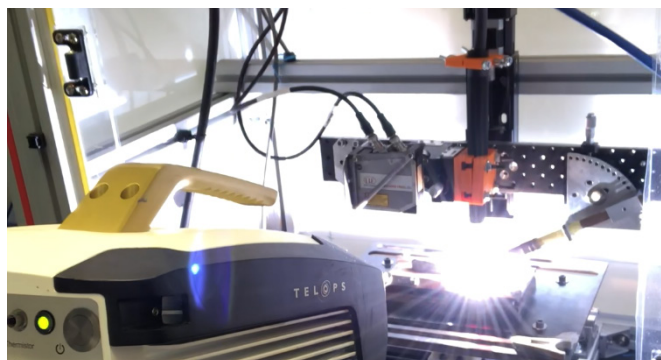
Target Ranging



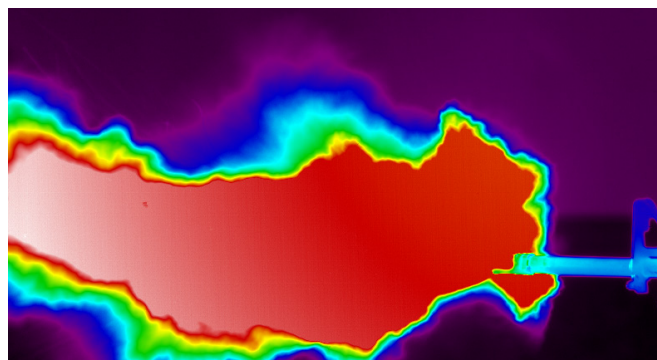
Courtesy of Office of Naval Research and US Army Night Vision and Electronic Sensors Directorate

FAST-SWIR	
SPECIFICATIONS	FAST S1k
DETECTOR TYPE	InGaAs
PIXEL SIZE	20 μm x 20 μm
SPECTRAL BAND	0.9 μm to 1.7 μm
TEMPERATURE CALIBRATION (OPTIONAL)	300 to 1000 °C
SPATIAL RESOLUTION	640 x 512 pixels
MAXIMUM FRAME RATE (FULL WINDOW)	1 000 Hz
MAXIMUM FRAME RATE (IN SUBWINDOW)	109 000 Hz @ 64 x 8
TEMPERATURE	-20 °C to +50 °C operational Storage: -40 °C to +50 °C
READOUT NOISE	< 250 e- (high gain) < 1100 e- (low gain)
INTERNAL HIGH-SPEED MEMORY	16 GB of high-speed memory, expandable to 32 GB

Specifications are subject to change without notice.



Additive Manufacturing & Welding



Muzzle Flash

OTHER SPECS & FEATURES	
TEC-Cooled cycle sensor cooling	Gig-E
Blackbody-free permanent calibration	Camera Link
16 bits dynamic range	Trigger In, Trigger out
Automatic exposure control (AEC)	SDI, GPS, IRIG-B, RS232 and thermistor ports
Enhanced high-dynamic-range imaging (EHDMI)	Lock-In recording
Weight: < 6 kg	Size: w/o lens: 12,6" x 7,8" (321 mm x 199 mm x 176 mm)

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