

HIGH-PERFORMANCE
FAST CAMERAS





TELOPS
EXOSENS GROUP

FAST S1k



*HIGH-SPEED VGA-FORMAT
SCIENTIFIC THERMAL IMAGING*

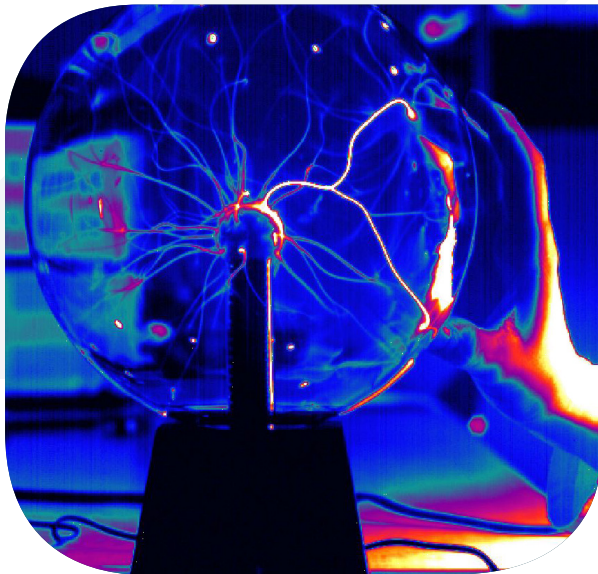
KEY FEATURES

-  **HIGH FRAME RATE**
-  **HIGH-SPEED INTERNAL MEMORY**
-  **ADVANCED CALIBRATION**
-  **OPTIC MOUNTS**

The FAST S1K camera series is the fastest infrared camera in the short wave infrared band. It is designed to provide radiometric measurements of hot targets in the application context of IR signature and ranging.

It is the unique camera with kilohertz and radiometric imaging capability in the SWIR. It also features high-sensitivity measurements for low light, thanks to its ultra-low-noise detector.

FAST S1k



Plasma Globe



Outside Scene

SPECIFICATIONS

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 $^{\circ}\text{C}$
Spatial Resolution	640 x 512 pixels
Maximum Frame Rate (Full Window)	1 000 Hz
Maximum Frame Rate (Subwindow Mode)	103 000 Hz @ 64 x 8
Temperature	-20 $^{\circ}\text{C}$ to +50 $^{\circ}\text{C}$ operational Storage: -40 $^{\circ}\text{C}$ to +50 $^{\circ}\text{C}$
Readout Noise	< 250 e- (high gain) < 1100 e- (low gain)
Internal High-Speed Memory	16 GB of high-speed memory, expandable to 32 GB

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REVEAL THE INVISIBLE