

HIGH-PERFORMANCE  
FAST CAMERAS





TELOPS  
EXOSENS GROUP

# FAST V1k



HIGH-SPEED VGA-FORMAT  
SCIENTIFIC THERMAL IMAGING

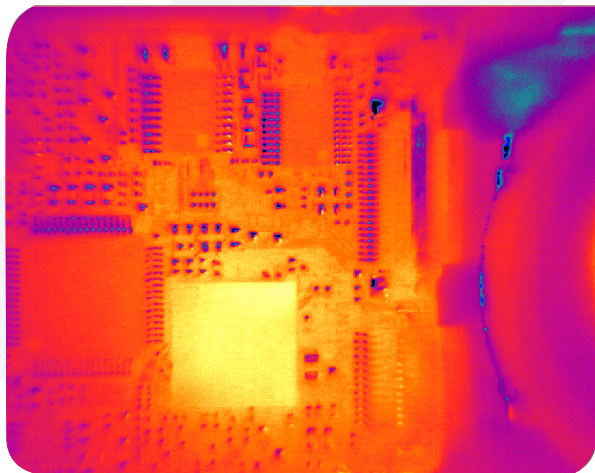
## KEY FEATURES

-  **ULTRAHIGH FRAME RATE**
-  **HIGH-SPEED INTERNAL MEMORY**
-  **HIGH SENSITIVITY**
-  **ADVANCED CALIBRATION**

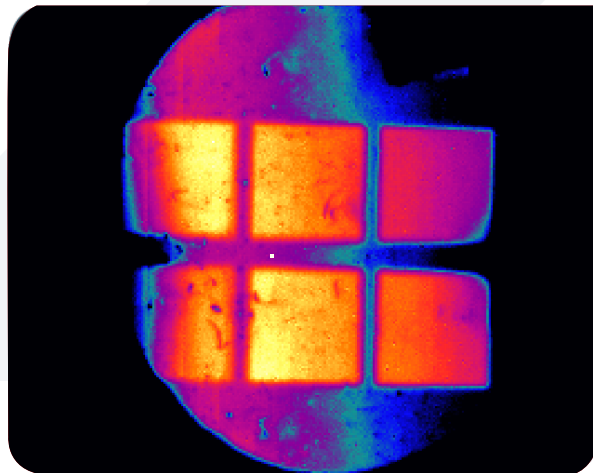
The FAST-IR series includes the fastest infrared cameras available on the market. To analyze dynamic events, the FAST-IR infrared cameras allow high-speed thermal imaging with an impressive temporal resolution at a rapid frame rate. These high-performance infrared cameras are extremely sensitive, enabling the detection of challenging targets.



# FAST V1k



HF Micro-Electronic Heat Management



Cell Imaging

## SPECIFICATIONS

Detector Type	Cooled SLS
Spectral Range	7.5 $\mu\text{m}$ to 11.5 $\mu\text{m}$
Spatial Resolution	640 $\times$ 512 pixels
Detector Pitch	25 $\mu\text{m}$
Aperture Size	F/2
Frame Rate	1 012 Hz
Maximum Frame Rate	2 400 Hz @ 320 $\times$ 256 40 000 Hz @ 64 $\times$ 8
Environmental Resistance	IP67
Operational Shock	IEC-60068-2-27
Operational Vibration	IEC-60068-2-64
Operational Temperature	-15 $^{\circ}\text{C}$ to +50 $^{\circ}\text{C}$
Storage Temperature	-35 $^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$
Typical NETD	30 mK
Exposure Time	0.27 $\mu\text{s}$ to full frame rate
Lens Mount	Threaded

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**EXOSENS**  
REVEAL THE INVISIBLE