

HIGH-PERFORMANCE  
FAST CAMERAS

TELOPS  
EXOSENS GROUP

# FAST M1k



*HIGH-SPEED VGA FORMAT MWIR  
SCIENTIFIC THERMAL IMAGING*

## KEY FEATURES



**HIGH FRAME RATE**



**TELOPS REAL-TIME TEMPERATURE  
CALIBRATION (RTTC)**

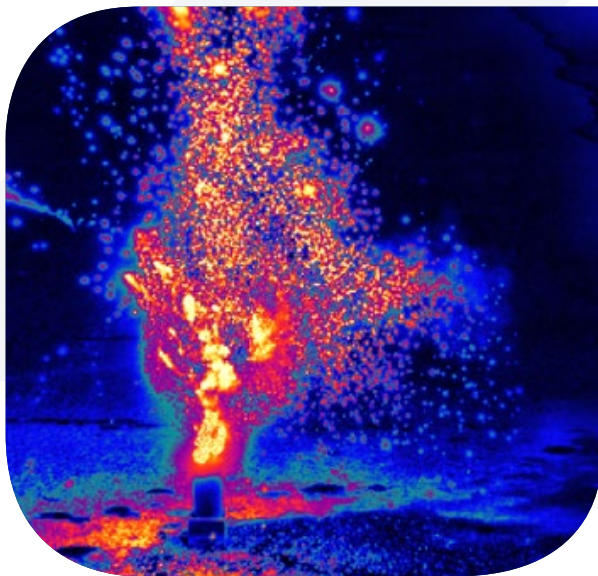


**HIGH SPEED INTERNAL MEMORY**

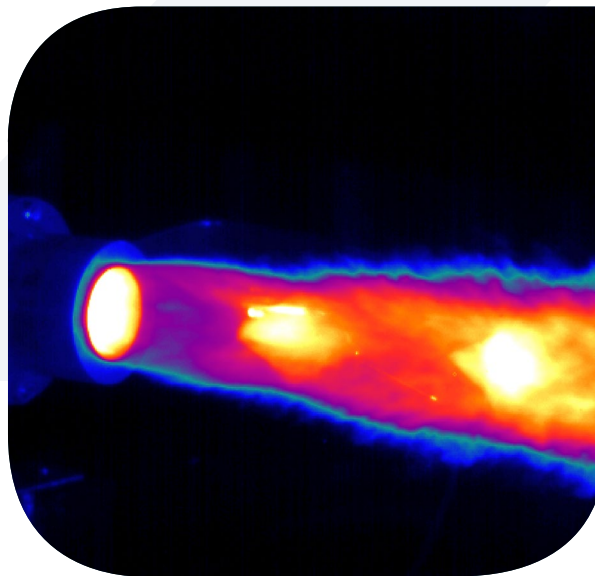
The FAST-IR series includes the fastest scientific infrared cameras on the market. The FAST M1k is a high-speed, VGA format MWIR system with strong thermal sensitivity performance optimized for the collection of high-fidelity radiometric imagery of rapidly evolving, high-temperature thermal targets.



# FAST M1k



Fireworks In-house Testing



Pulsed Detonation Rocket Engine

## SPECIFICATIONS

Detector Type	Cooled InSb
Detector Format	640 x 512 pixels
Spectral Range	1.5 – 5.4 $\mu\text{m}$
Detector Pitch	25 $\mu\text{m}$
Aperture Size	F/2.5
Typical NETD	20 mK
Exposure Time	0.27 $\mu\text{s}$ to full frame rate
Frame Rate	1 012 Hz
Maximum Frame Rate	11 000 Hz @ 64 x 64 40 000 Hz @ 64 x 8
Environmental Resistance	IP67
Operational Temperature	-15 °C to +50 °C
Storage Temperature	-35 °C to +60 °C
Lens Mount	Threaded

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**EXOSENS**  
REVEAL THE INVISIBLE

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