

HIGH-PERFORMANCE  
FAST CAMERAS

TELOPS  
EXOSENS GROUP

# FAST M1k



*HIGH-SPEED VGA-FORMAT  
SCIENTIFIC THERMAL IMAGING*

## KEY FEATURES



**ULTRAHIGH FRAME RATE**



**HIGH-SPEED INTERNAL MEMORY**



**HIGH SENSITIVITY**

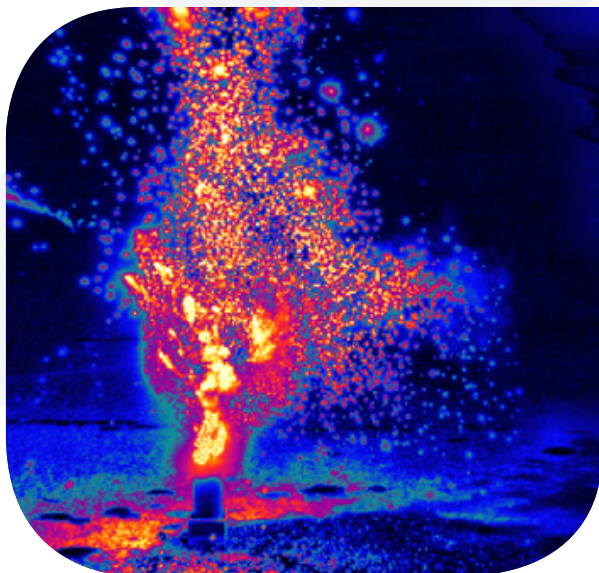


**ADVANCED CALIBRATION**

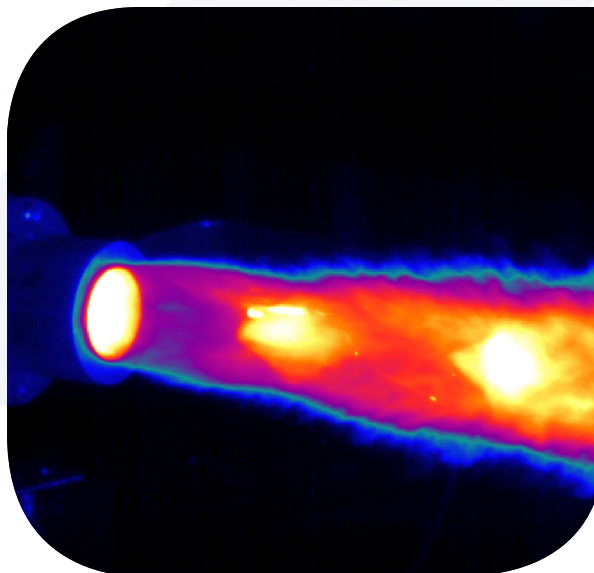
The FAST-IR series includes the fastest infrared cameras available on the market. The FAST M1k features a high sensitivity 640 x 512 pixel InSb array detector capable of acquiring full frame images at up to 1012 frames per second. This combination of temporal resolution and large format imagery deliver a high-end capability to monitor fast thermal events over a wide field of view.



# 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	25 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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REVEAL THE INVISIBLE