HIGH-PERFORMANCE FAST CAMERAS

## FAST M1k





HIGH-SPEED VGA-FORMAT SCIENTIFIC THERMAL IMAGING

## **KEY FEATURES**

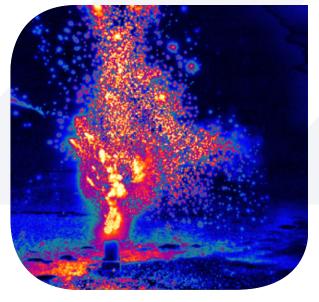
ULTRAHIGH FRAME RATE HIGH-SPEED INTERNAL MEMORY HIGH SENSITIVITY

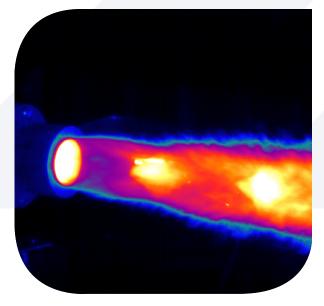
**ADVANCED CALIBRATION** 

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.

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## 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 µm
Detector Pitch	25 μm
Aperture Size	F/2.5
Typical NETD	25 mK
Exposure Time	0.27 $\mu$ s to full frame rate
Frame Rate	1 012 Hz
Maximum Frame Rate	11 000 Hz @ 64 × 64 40 000 Hz @ 64 × 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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