

HIGH-PERFORMANCE  
FAST CAMERAS

TELOPS  
EXOSENS GROUP

# FAST M2k UD



*ULTRA HIGH-SPEED  
MWIR SCIENTIFIC THERMAL IMAGING*

## KEY FEATURES



**ULTRA-HIGH FRAME RATE**



**MWIR SPECTRAL BAND**



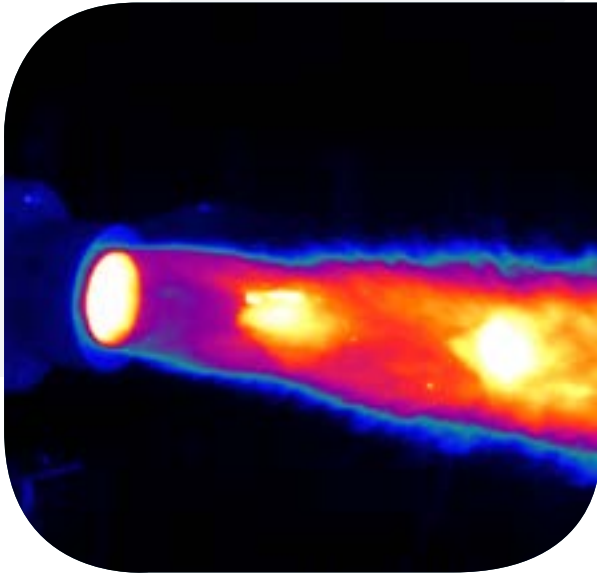
**LARGE FORMAT IMAGERY**



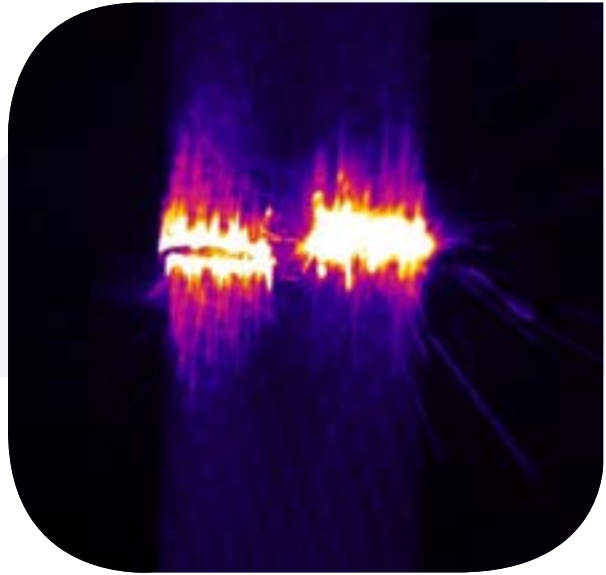
**TELOPS REAL-TIME  
TEMPERATURE CALIBRATION (RTTC)**

The FAST-IR series include the fastest scientific infrared cameras on the market. The FAST M2k UD represents the pinnacle of large format frame rate capability, featuring a 640 x 512 pixel detector capable of radiometric image acquisition at up to 1500 Hz in the full frame and up to 42,000 Hz in subwindow mode. Optimized for high-speed measurements of even the most challenging thermal targets, the FAST M2k UD generates large-format radiometric imagery with unmatched temporal resolution.

# FAST M2k UD



Pulsed Detonation Rocket Engine



Composite Fiber Tensile Strength Testing

## SPECIFICATIONS

Detector Type	InSb
Detector Format	640 x 512
Detector Pitch	25 $\mu$ m
Spectral Range	1.5 – 5.4 $\mu$ m (3.0 – 5.4 $\mu$ m) optional
Maximum Frame Rate (640 x 512)	1500 Hz
Maximum Frame Rate (320 x 256)	3300 Hz
Maximum Frame Rate (64 x 8)	42 000 Hz
Minimum Exposure Time	0.5 $\mu$ s
Typical NETD	$\leq$ 23 mK
Lens Mount	Threaded
Environmental Resistance	IP 67
Operational/Storage Limits	-20 to +50 °C (operation) -35 to +60 °C (storage)

[sales@telops.com](mailto:sales@telops.com)



[exosens.com](http://exosens.com)

**EXOSENS**  
REVEAL THE INVISIBLE

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