HIGH-PERFORMANCE
FAST CAMERAS

TELOPS
EXOSENS GROUP

FAST M2k UD

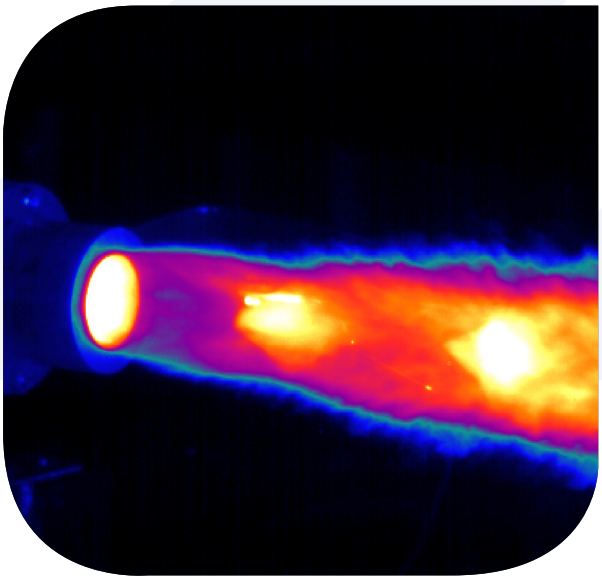
HIGH-SPEED VGA-FORMAT
SCIENTIFIC THERMAL IMAGING

KEY FEATURES

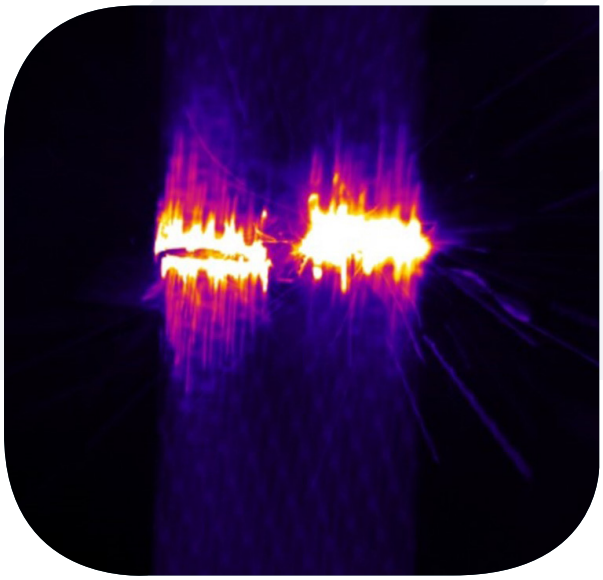
- **HIGH SPEED DATA ACQUISITION CAPABILITIES**
- **LARGE FORMAT IMAGERY**
- **TELOPS REAL-TIME TEMPERATURE CALIBRATION (RTTC)**
- **AUTOMATIC EXPOSURE CONTROL (AEC)**

Introducing the FAST M2k UD, a scientific infrared imaging system capable of delivering calibrated thermal imagery at 640 x 512 pixel resolution at up to 1500 Hz. Building on an established expertise in developing high-speed scientific infrared imaging systems, the M2k UD provides a combination of image format and data acquisition speed capabilities that is unique in the market. The M2k UD is designed to provide users with an "ultra definition" imaging capability, allowing for characterization of thermal events in fine detail across both the spatial and temporal regimes.

FAST M2k UD



Pulsed Detonation Rocket Engine



Composite Fiber Tensile Strength Testing

SPECIFICATIONS

Detector Type	Cooled InSb
Detector Format	640 x 512 pixels
Spectral Range	1.5 – 5.4 µm (3.0 – 5.4 µm optional)
Detector Pitch	25 µm
Frame Rate (640 x 512)	1,500 Hz
Frame Rate (320 x 256)	3,300 Hz
Frame Rate (128 x 128)	6,800 Hz
Frame Rate (64 x 8)	42,000 Hz
Environmental Resistance	IP67
Operational Temperature	-20 °C to +50 °C
Storage Temperature	-35 °C to +60 °C
Typical NETD	≤ 23 mK
Exposure Time	0.5 µs to full frame rate
Lens Mount	Threaded

sales@telops.com

telops.com

EXOSENS
REVEAL THE INVISIBLE