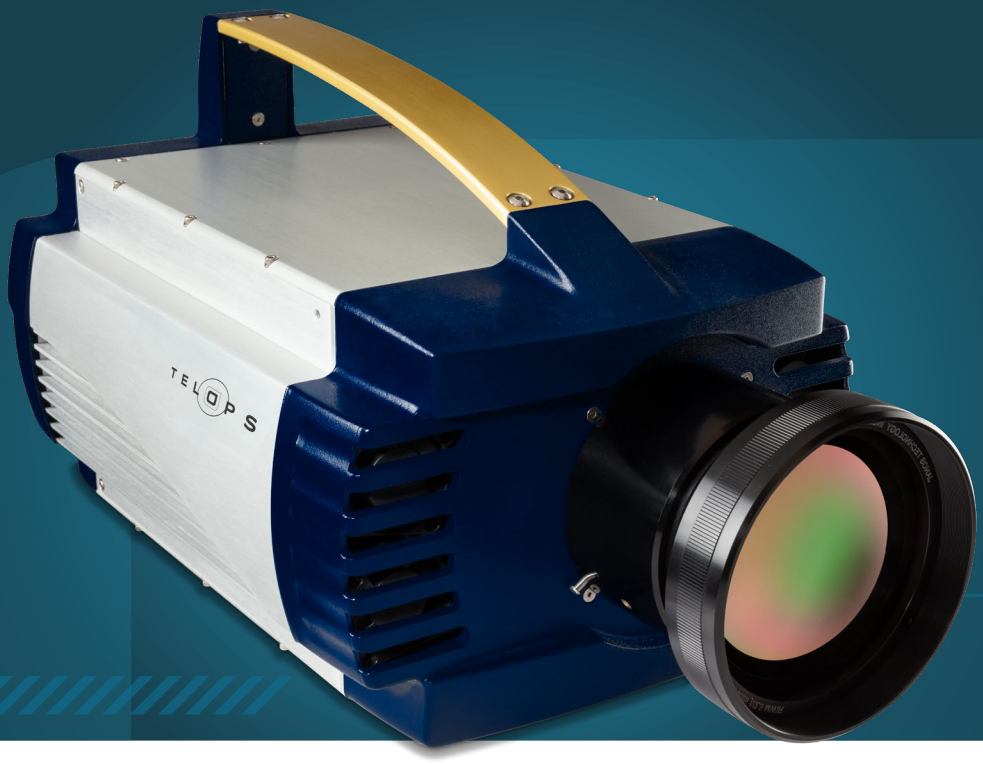
MS M3k



HIGH-SPEED VGA-FORMAT SCIENTIFIC MULTISPECTRAL THERMAL IMAGING

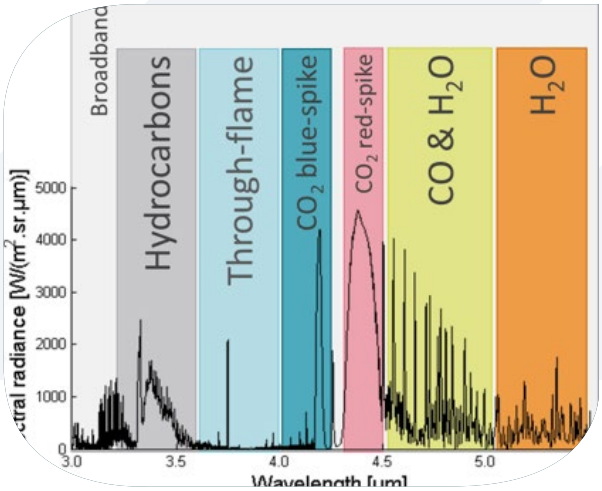
KEY FEATURES

- **MULTISPECTRAL CAPABILITIES**
- **HIGH SPEED DATA ACQUISITION CAPABILITIES**
- **ADVANCED CALIBRATION**
- **HIGH SENSITIVITY**

Telops MS-IR cameras allow the scene to be split into eight distinct spectral bands rather than one single broadband image, enabling spectral characterization of target material infrared signature. The 8-position adjustable-speed filter wheel is designed to rotate at up to 6000 rotations per minute, allowing for high speed data acquisition at 800 Hz or 100 frames per second for each channel simultaneously in when operating in synchronous mode. When operating in static filter wheel mode, the MS-M3k is capable of acquiring data at up to 3,000 frames per second in the full 320 x 256 pixel window and over 100,000 frames per second in subwindow mode.

MS M3k

Multispectral image of burning wood crib



Typical MWIR combustion spectrum and filters

SPECIFICATIONS	
Detector Type	Cooled InSb
Detector Format	320 × 256 pixels
Spectral Range	1.5 µm to 5.5 µm
Detector Pitch	30 µm
Aperture Size	F/2.5
Maximum Frame Rate in Full Window (Static Filter Wheel Mode)	3 100 Hz
Maximum Frame Rate in Subwindow (Static Filter Wheel Mode)	100 000 Hz @ 64 × 4
Maximum Frame Rate in Rotating Filter Wheel Mode	800 Hz
Typical NETD	25 mK
Exposure Time	1 µs to full frame rate
Lens Mount	Bayonet

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