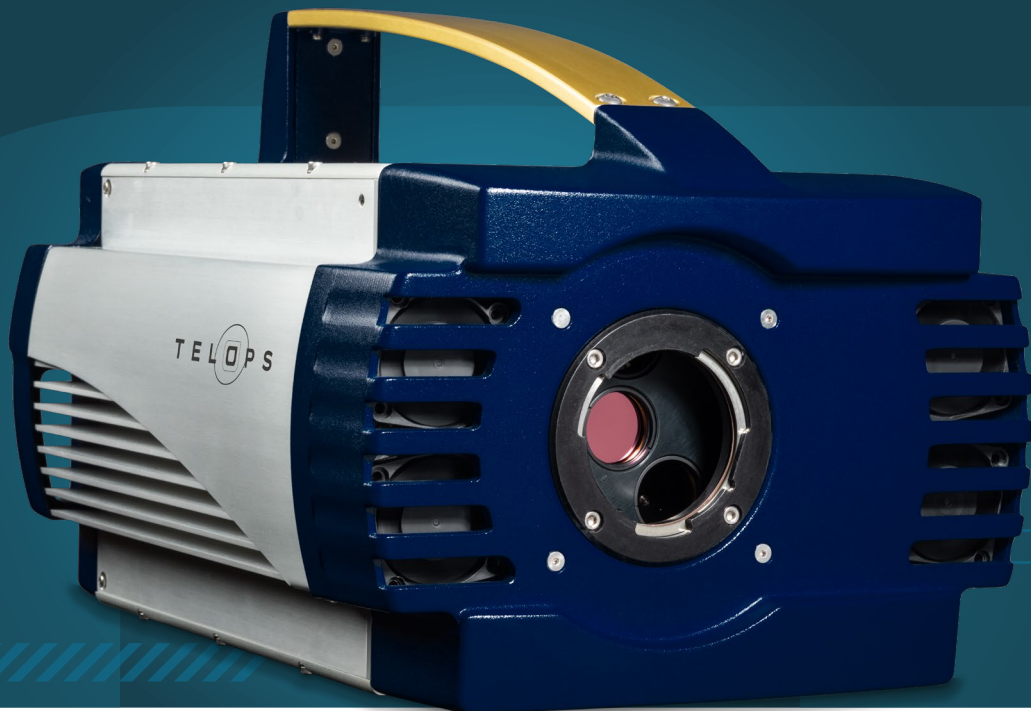


# MS M2k UD



*HIGH-SPEED VGA-FORMAT SCIENTIFIC  
MULTISPECTRAL THERMAL IMAGING*

## KEY FEATURES



**8-POSITION FAST-ROTATING FILTER WHEEL**



**HIGH SPEED DATA ACQUISITION CAPABILITIES**



**LARGE FORMAT IMAGERY**



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



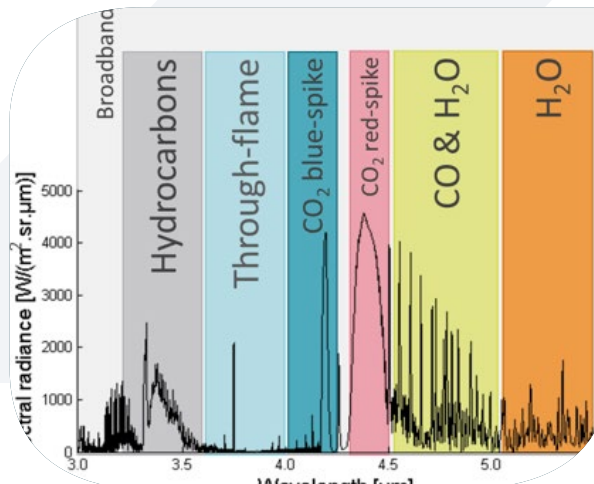
**AUTOMATIC EXPOSURE CONTROL (AEC)**

Introducing the MS M2k UD, a high-speed, VGA format scientific infrared imaging system equipped with a fast-rotating 8-position filter wheel to enable multispectral measurement capabilities. With the filter wheel engaged, the MS M2k UD is capable of collecting full window multispectral data at 800 Hz, or 100 Hz per channel across all 8 channels simultaneously. With the filter wheel stopped, the MS M2k UD delivers market leading frame rate capabilities of up to 1500 Hz in the full 640 x 512 pixel detector window configuration. With the unique combination of high frame rate, large image format, and multispectral analysis capabilities, the MS M2k UD delivers an "ultra definition" imaging capability allowing for characterization of thermal events with fine detail across the spatial, temporal, and spectral regimes.

# MS M2k UD



Multispectral image of burning wood crib



Typical MWIR combustion spectrum and filters

## SPECIFICATIONS

Detector Type	Cooled InSb
Detector Format	640 x 512 pixels
Spectral Range	1.5 – 5.4 $\mu\text{m}$ (3.0 – 5.4 $\mu\text{m}$ optional)
Detector Pitch	25 $\mu\text{m}$
Maximum Frame Rate in Full Window (Static Filter Wheel Mode)	1,500 Hz
Maximum Frame Rate in Subwindow (Static Filter Wheel Mode)	42,000 Hz
Maximum Frame Rate in Rotating Filter Wheel Mode	800 Hz
Operational Temperature	-20 °C to +50 °C
Storage Temperature	-35 °C to +60 °C
Typical NETD	$\leq 23$ mK
Exposure Time	0.5 $\mu\text{s}$ to full frame rate
Lens Mount	Threaded

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