HIGH DYNAMIC RANGE
INFRARED CAMERA

HDR M700

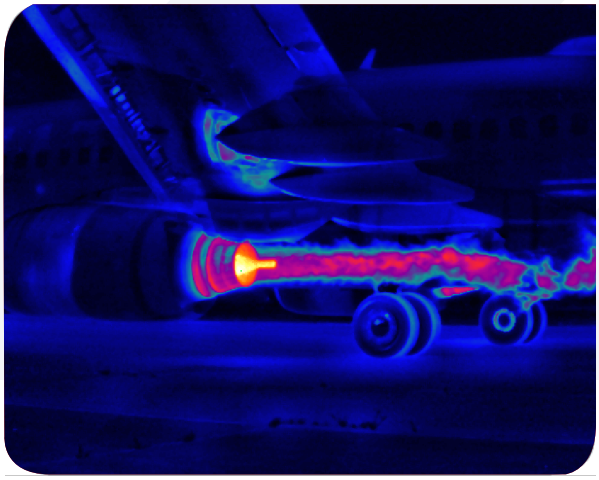
EXPANDED IN-SCENE DYNAMIC RANGE PERFORMANCE

KEY FEATURES

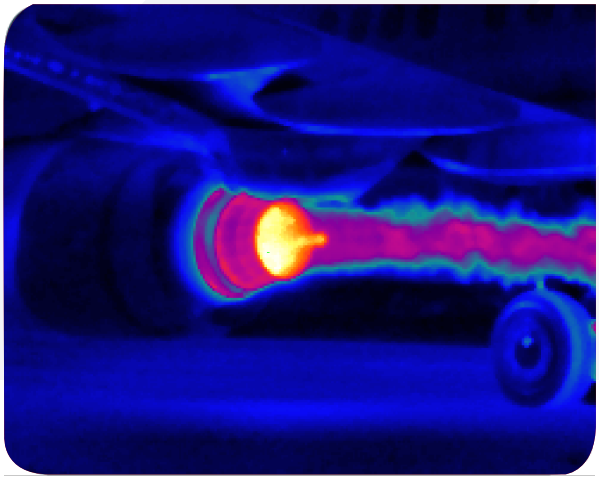
- **EFFICIENT MEASUREMENT OF HIGH THERMAL CONTRAST SCENES**
- **IN-SCENE DYNAMIC RANGE OF TO 900 DEGREES WITH A SINGLE EXPOSURE TIMETHERMAL CONTRAST SCENES**
- **ON-CHIP SATURATION MANAGEMENT SOLUTION**
- **TELOPS REAL-TIME TEMPERATURE CALIBRATION (RTTC)**

The HDR M700 represents a revolution in high dynamic range infrared imaging. Traditional midwave infrared cameras can effectively measure a span of about 150 degrees with a single exposure time before experiencing image saturation. Telops HDR M700 utilizes an advanced on-chip saturation management solution to extend the single-exposure time dynamic range to a span of over 900 degrees enabling analysis of scenes and objects exhibiting strong thermal contrast.

HDR M700



High dynamic range enables detailed imaging of a broad range of target temperatures in the same scene



Increased in-scene dynamic range allows for precise visualization of hot target behavior without sacrificing image quality for lower temperature objects

SPECIFICATIONS	
Detector Type	SLS
Spectral Range	3.0 – 5.0 µm
Aperture Size	F/4
Typical NETD	20 mK
Exposure Time	1 µs to full frame rate
Frame Rate	650 Hz @ 640 × 512
Maximum Frame Rate	40 000 Hz
Environmental Resistance	IP67
Operational Temperature	-15 oC to +50 oC
Storage Temperature	-35 °C to +60 °C
Lens Mount	Threaded

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