

HIGH DYNAMIC RANGE
INFRARED CAMERA

TELOPS
EXOSENS GROUP

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**

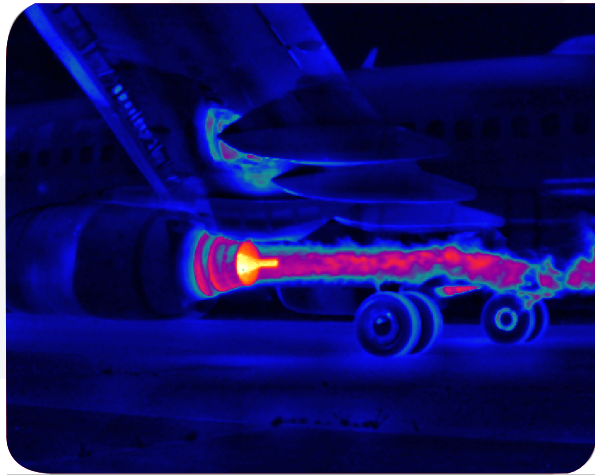


**TELOPS REAL-TIME TEMPERATURE
CALIBRATION (RTTC)**

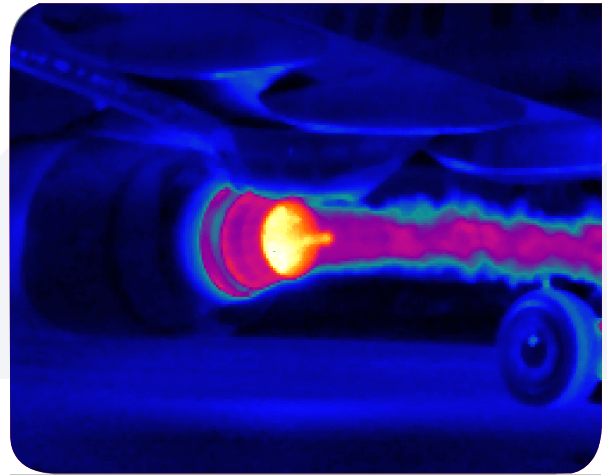
The HDR M700 represents a revolution in high dynamic range infrared imaging. Traditional midwave infrared cameras can effectively measure a span of about 150 degrees with a single exposure time before experiencing image saturation. Telops HDR M700 utilizes an advanced on-chip saturation management solution 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 \times 512
Maximum Frame Rate	40 000 Hz
Environmental Resistance	IP67
Operational Temperature	-15 $^{\circ}\text{C}$ to +50 $^{\circ}\text{C}$
Storage Temperature	-35 $^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$
Lens Mount	Threaded

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