

HDR-IR Family



HIGH-DYNAMIC-RANGE
INFRARED CAMERAS

KEY FEATURES



**ENHANCED IN-SCENE
DYNAMIC RANGE**



**IMAGE HOT AND COLD TARGET
SIMULTANEOUSLY**



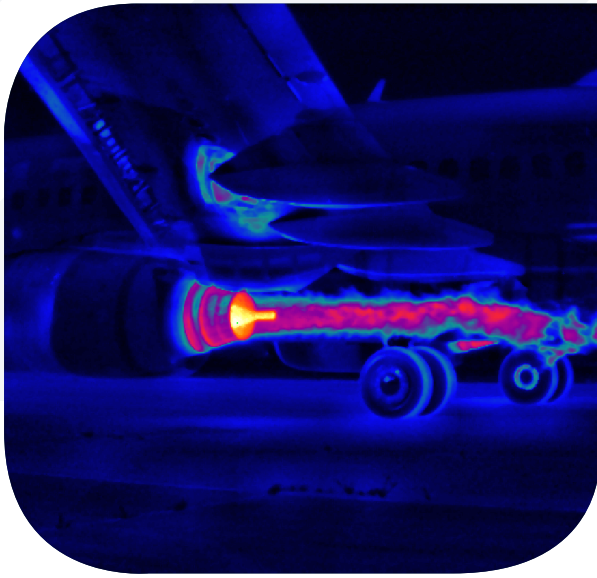
HIGH FRAME RATE

The HDR-IR family of camera are optimized for high dynamic range performance when presented with scenes containing strong thermal contrast. The HDR M3k employ a unique automated fast-switching neutral density filter mechanism designed to continually optimize in-scene dynamic range performance over time and changing scene contrast conditions.

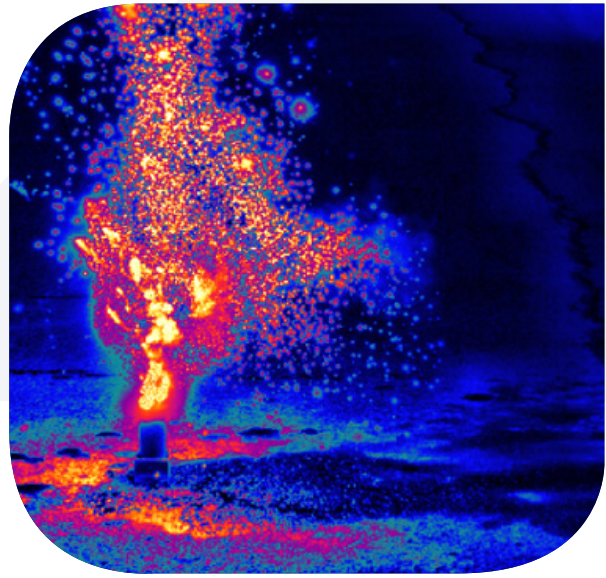
The HDR M700 presents a revolutionary upgrade to in-scene dynamic range capabilities compared to traditional thermal cameras. The advanced design of the HDR M700 allows for a measurement range of approximately 900 degrees in a single exposure snapshot, allowing for efficient imaging of hot and cold target simultaneously.



HDR-IR Family



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



900 degree in-scene dynamic range in a single image allows for efficient measurement of hot targets and cold backgrounds in the same scene

MIDWAVE SERIES

SPECIFICATIONS	HDR M700	HDR M3k
HDR Mechanism	On-Chip Saturation Management	Filter-Based
Detector Type	Cooled SLS	Cooled InSb
Detector Format	640 × 512 pixels	320 × 256 pixels
Spectral Range	3.0 – 5.0 μm	3.0 – 5.4 μm
Optical Aperture	F/4	F/3
Max. Frame Rate (Full Window)	650 Hz	1 900 Hz
Max. Frame Rate	650 Hz @ 640 x 512	90 000 Hz @ 64 x 4
Max. Frame Rate (Subwindow)	40 000 Hz	90 000 Hz @ 64 x 4
Environmental Resistance	IP67	IP67
Operational Temperature	-15 °C to +50 °C	-20 °C to +50 °C
Storage Temperature	-35 °C to +60 °C	-35 °C to +60 °C
Typical NETD	20 mK	30 mK
Minimum Exposure Time	1.7 μs in full frame rate	1 μs in full frame rate
Lens Mount	Threaded	Bayonet

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