

HIGH-PERFORMANCE  
FAST CAMERAS

TELOPS  
EXOSENS GROUP

# HD & Super HD



*HIGH-DEFINITION THERMAL INFRARED  
CAMERAS WITH UP TO 3 MEGAPIXELS.*

## KEY FEATURES



**HIGH DEFINITION**



**HIGH SPATIAL RESOLUTION  
AND IMAGING QUALITY**



**WIDE SPECTRAL BAND**

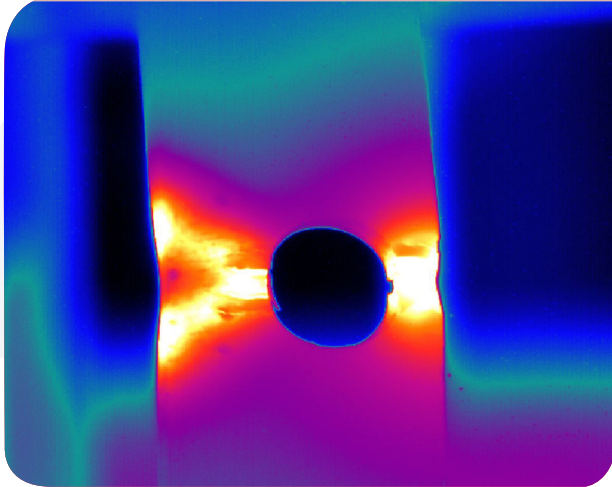


**ADVANCED CALIBRATION**

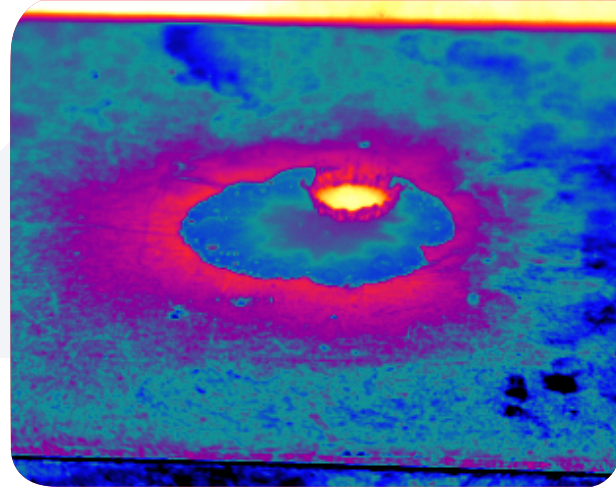
The HD and Super HD Series are high-performance thermal infrared cameras designed to provide unprecedented image quality with crisp imaging of sharp targets while maintaining an excellent thermal sensitivity. They feature Telops' unique real-time calibration and provide unique capabilities in applications that require large image coverage.



# HD & Super HD



Experimental Mechanics & NDT



Fluid Thermodynamics Droplet Testing

SPECIFICATIONS	FAST M3Shd	FAST M2Shd	FAST M200hd	FAST M100hd
Detector Type	Cooled InSb	Cooled InSb	Cooled InSb	Cooled InSb
Detector Format	1920 × 1536 pixels	1520 × 1536 pixels	1280 × 1024 pixels	1280 × 1024 pixels
Spectral Range	1.5 – 5.4 μm	1.5 – 5.4 μm	1.5 – 5.4 μm (3 to 5 μm optional)	1.5 – 5.4 μm (3 to 5 μm optional)
Detector Pitch	10 μm	10 μm	10 μm	10 μm
Optical Aperture	F/3	F/3	F/3	F/3
Max. Frame Rate (Full Window)	113 Hz	50 Hz	180 Hz	100 Hz
Max. Frame Rate (Subwindow)	2 570 Hz @ 64 x 2	1 425 Hz @ 64 x 2	2 180 Hz @ 64 x 4	1 200 Hz @ 64 x 4
Operational Temperature	-20 °C to +50 °C	-20 °C to +50 °C	-20 °C to +50 °C	-20 °C to +50 °C
Storage Temperature	-40 °C to +70 °C	-40 °C to +70 °C	-40 °C to +70 °C	-40 °C to +70 °C
Typical NETD	30 mK	30 mK	30 mK	30 mK
Exposure Time	0.5 μs to full frame rate	0.5 μs to full frame rate	0.5 μs to full frame rate	0.5 μs to full frame rate
Lens Mount	Bayonet	Bayonet	Bayonet	Bayonet



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**EXOSENS**  
REVEAL THE INVISIBLE