

HIGH-PERFORMANCE  
FAST CAMERAS

TELOPS  
EXOSENS GROUP

# HD & Super HD



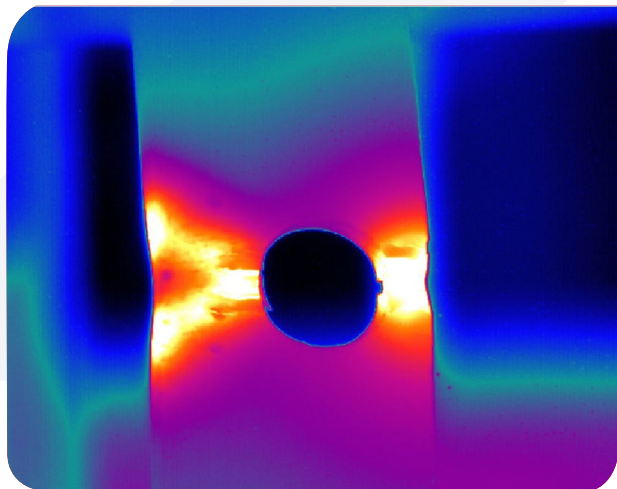
*HIGH-DEFINITION THERMAL INFRARED  
CAMERAS WITH UP TO 3 MEGAPIXELS*

## KEY FEATURES

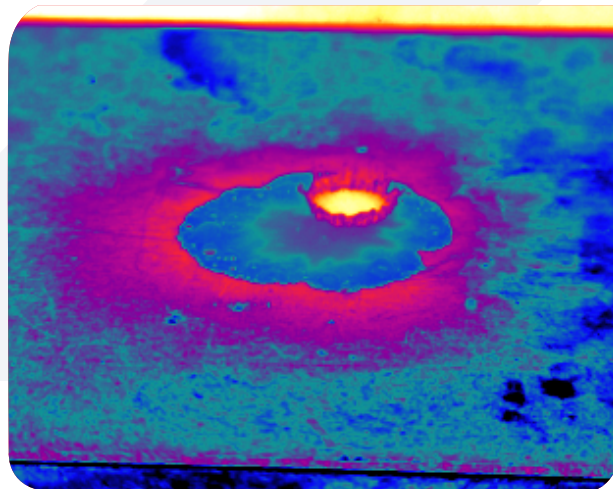
-  **HIGH DEFINITION**
-  **HIGH SPATIAL RESOLUTION AND IMAGING QUALITY**
-  **WIDE SPECTRAL BAND**
-  **ADVANCED CALIBRATION**

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

## HD & Super HD Series

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 $\mu\text{m}$	1.5 – 5.4 $\mu\text{m}$	1.5 – 5.4 $\mu\text{m}$ (3 to 5 $\mu\text{m}$ optional)	1.5 – 5.4 $\mu\text{m}$ (3 to 5 $\mu\text{m}$ optional)
Detector Pitch	10 $\mu\text{m}$	10 $\mu\text{m}$	10 $\mu\text{m}$	10 $\mu\text{m}$
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	3 521 Hz @ 64 x 8	2 032 Hz @ 64 x 8
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 $\mu\text{s}$ to full frame rate	0.5 $\mu\text{s}$ to full frame rate	0.5 $\mu\text{s}$ to full frame rate	0.5 $\mu\text{s}$ to full frame rate
Lens Mount	Threaded	Threaded	Threaded	Threaded

[sales@telops.com](mailto:sales@telops.com)



[exosens.com](http://exosens.com)

**EXOSENS**  
REVEAL THE INVISIBLE

© Telops. The information furnished is believed to be accurate and reliable, but is not guaranteed and is subject to change without notice. No liability is assumed by Telops group of companies nor by any Exosens Group companies. Performance data represents typical characteristics as individual product performance may vary. Customers should verify that they have the most current product information from the Telops group of companies before placing orders. Texts and pictures may not be considered as contractually binding. This document may not be reproduced, in whole or in part, without the prior written consent of Telops.