



The IP-67 certified enclosure.

## SCIENTIFIC THERMAL INFRARED CAMERA.

The M350 is a cooled, high-performance scientific thermal infrared camera designed to provide excellent image quality and impressive thermal sensitivity. It features our unique real-time calibration and is an excellent choice for a variety of scientific and industrial applications.

### KEY BENEFITS

#### HIGH FRAME RATE

Maximum data throughput is larger than 1 Gigabit/s. High performance electronics produce thermal images at rates of up to 355 fps in full-frame mode. Sub-windows can be acquired at rates up to 4 980 fps.

#### HIGH-SPEED INTERNAL MEMORY

1 GB (expandable) memory for autonomous operation.

#### HIGH SENSITIVITY

Temperature differences as small as 20 mK are detectable.

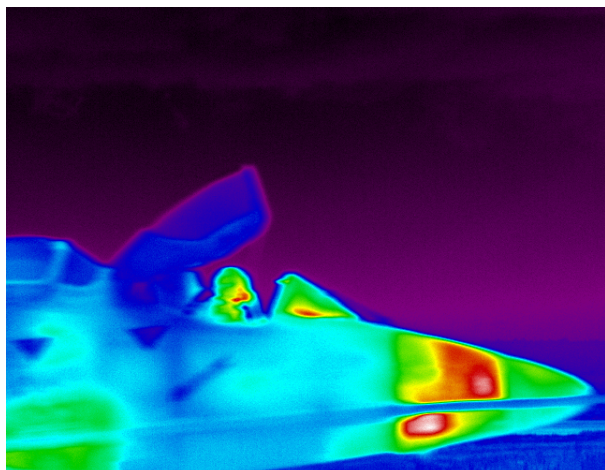
#### ADVANCED CALIBRATION

Unique proprietary real-time processing of infrared images including NUC, radiometric temperature, automated exposure control (AEC) and enhanced high-dynamic-range imaging (EHDRI).

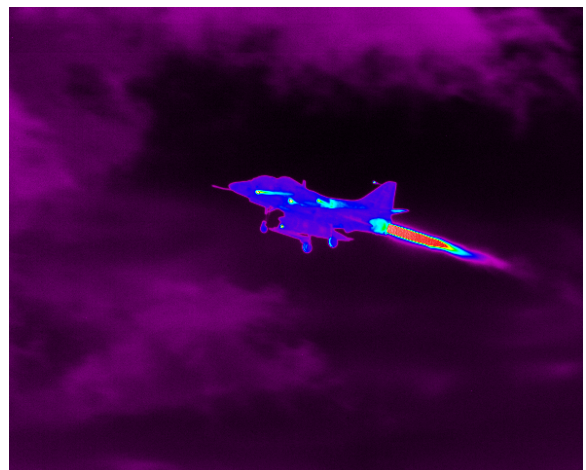
With these unique features, scientists benefit from ease of use and operation flexibility while getting accurate measurements over the entire camera's operation range.

### EXAMPLES OF TYPICAL USES

IR signature



Target ranging



FAST M350	
SPECIFICATIONS	M350
DETECTOR TYPE	Cooled InSb
SPECTRAL RANGE	1.5 $\mu\text{m}$ to 5.4 $\mu\text{m}$
SPATIAL RESOLUTION	640 $\times$ 512 pixels
DETECTOR PITCH	15 $\mu\text{m}$
APERTURE SIZE	F/3 (other available)
FRAME RATE	355 Hz
MAXIMUM FRAME RATE	672 Hz @ 320 $\times$ 256 4 980 Hz @ 132 $\times$ 4
TYPICAL NETD	20 mK
EXPOSURE TIME	0.5 $\mu\text{s}$ to full frame rate
LENS MOUNT	Bayonet interface



Jet engine IR signature measurement



Helicopter IR signature characterization

OTHER SPECS & FEATURES	
Rotary-stirling closed cycle sensor cooling	Gig-E
Blackbody-free permanent calibration (up to 150 °C)	Camera Link
Calibration up to 2 500 °C (optional)	Trigger In, Trigger Out
16 bits dynamic range	SDI, GPS, IRIG-B, RS232 and thermistor ports
High-speed internal memory buffer: up to 32 GB	Lock-In (optional)
Automatic exposure control (AEC)	Weight: < 6 kg
Enhanced high-dynamic-range imaging (EHDMI)	Size w/o lens: 12.6" $\times$ 7.8" $\times$ 6.9" 321 mm $\times$ 199 mm $\times$ 176 mm

FOR MORE INFORMATION | [TELOPS.COM](https://telops.com)

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