The IP-67 certified enclosure.

SCIENTIFIC THERMAL INFRARED CAMERA.

The M200 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 more than 210 fps in full-frame mode. Sub-windows can be acquired at rates up to 5 600 fps.

HIGH-SPEED INTERNAL MEMORY

1 GB (expandable) memory for autonomous operation.

HIGH SENSITIVITY

Temperature differences as small as 18 mK are detectable.

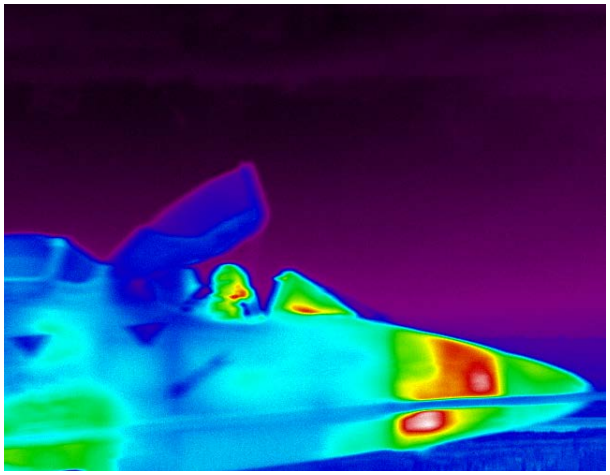
ADVANCED CALIBRATION

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

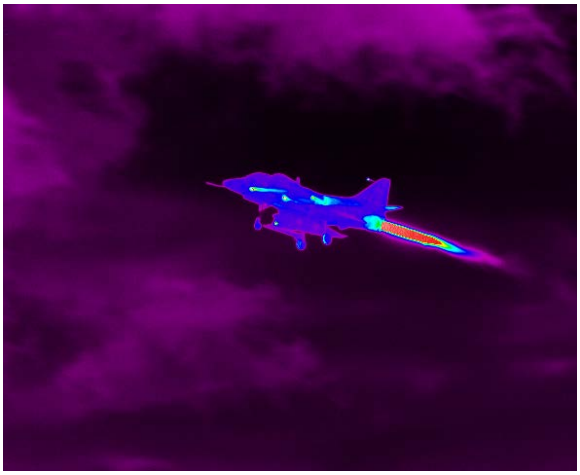
With these unique features, scientists benefit from ease of use and operation flexibility while getting accurate measurements over the entire camera's operation range.

EXAMPLES OF TYPICAL USES

IR signature



Target ranging



FAST M200	
SPECIFICATIONS	M200
DETECTOR TYPE	Cooled MCT
SPECTRAL RANGE	1.5 µm to 5.1 µm
SPATIAL RESOLUTION	640 × 512 pixels
DETECTOR PITCH	15 µm
APERTURE SIZE	F/3
FRAME RATE	5 600 Hz @ 136 x 2
MAXIMUM FRAME RATE	760 Hz @ 320 x 256 210 Hz @ 640 x 512
TYPICAL NETD	18 mK
EXPOSURE TIME	0.17 µs 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 (EHDRI)	Size w/o lens: 12.6″ × 7.8″ × 6.9″ 321 mm × 199 mm × 176 mm

FOR MORE INFORMATION | TELOPS.COM

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