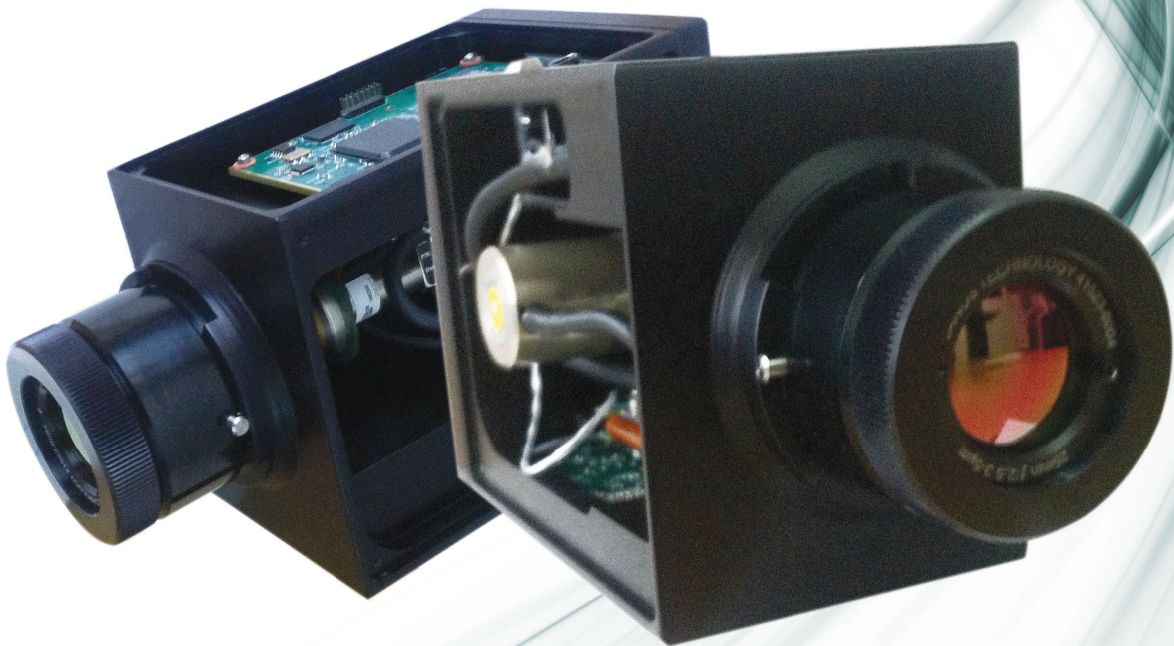# VIPER
640 MWIR Cooled Camera

The Viper high performance MWIR cameras
deliver stunning imagery using best in class
cryo cooled MCT/InSb/xBn detectors.
The cameras incorporate advanced real-time
image processing to produce high quality video
in a small package.

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VIPER High Speed MWIR Camera combines high resolution with ease of use and flexibility for just about any defense, industrial or research application. VIPER's High Speed MWIR Camera also offers on board calibration.

FEATURES

- Up to 200Hz frame rate
- 15um pixel pitch MCT/InSb/xBn cryo cooled detector
- 3 to 5 um spectral response
- Multiple camera cases and mounting options
- 14 - 16 bit digital output
- USB3 / CameraLink interface
- Built in image processing

APPLICATIONS

- IR search and track
- Homeland security, surveillance and reconnaissance
- Pyrometric measurements
- Industrial imaging

SPECIFICATIONS

Array Type	Cooled MCT / InSb / xBn FPA
Spectral Response	3 to 5 um
Pixel Pitch	15 um
Array size	640 x 512
f/#	f/2, f/4, f/5.5 and other custom options
Cooler Dimensions	ø 46 x L 77
Frame-rate (Full Frame)	Up to 200 Hz
Pixel Operability	> 99%
Thermal Resolution (NETD)	< 20 mK (293 K, 50 % well fill, 100 Hz)
Gain Settings	2 gains
Charge handling Capacity	>6.5 M e-(for 100% well fill and ITR mode)
Trigger Sync	TTL / CMOS in/out with delay
Digital Output	Standard: USB, LVDS & Camera Link
Analog Video Output	RS-170, PAL, NTSC
Cool Down Time	< 5 minutes @ 20°C; < 7 minutes @ 55°C
Weight Without Lens	< 6 Kg with full shell, OEM cores with low weight available
Operational Temperature	< -30 deg C to +60 deg C
User Interface Panel	Optional standard connector Interface for LVDS, Camera Link, Analog Video
Image Processing	2x,4x, 8x Digital zoom; Image Orientation; Digital Filtering (de-noising, sharpening, contrast enhancement); Built-in Self-Test; Image Optimization (BPR, NUC, AGC/LAP)

DELIVERABLES: Cryo cooled camera core with image processing ■ Camera housing ■ GUI software and SDK ■ Standard lens options

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