



VINDEN 75T

LWIR ZOOM SERIES

The Vinden 75T LWIR camera is a sturdy 640 x 512 array format, integration-ready thermal imaging solution with best in a best in class image.

- + 640 x 512, 10µm LWIR detector
- + 15-75 mm lens model
- + 60 Hz frame rate
- + OEM integration-ready

DETAILS

The Vinden was designed especially for applications where SWAP matters most, such as gimbal platforms. The 15-75mm continuous zoom lens paired with the small-pitch, 10 Micron, DRS Tenum 640 detector perceives greater magnification than camera packages of similar size. The lens control interface allows precise electronic control of zoom and focus, and the detector is armed with on-board contrast enhancement

APPLICATIONS

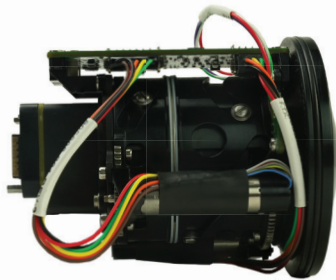
- + Custom OEM integration
- + PTZ systems
- + Port, airport, border security
- + Security and surveillance
- + Manned or unmanned
- + Around-the-clock operations



Narrow Zoom Bridge at 1.75km



Narrow Zoom Truck at .15km



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EXPORT CLASSIFICATION: DUAL USE

FEATURE SPECS

DETECTOR



Detector Type	Uncooled VOx Microbolometer
Array Format	640 x 512
Pixel Pitch	10 Micron
Spectral Response	LWIR
Frame Rate	60 Hz max, 9 Hz available
Bit Depth	14-bit
NETD	<20 mK (normalized, filtered) <50 mK (normalized)

ENVIRONMENTAL



Operating Temperature	-32° to +70°C estimated
Input Voltage	Lens: 11.5 - 12.5V Sensor: 3-5.5V Base Configuration, 4.5-18V with Feature Board, 5V with USB dev kit
Power Dissipation	Sensor: <1.2W Base Configuration, <1.4W with Feature Board, 2W Typical, 6.5W Max with USB dev kit

LENS MODELS



	75 mm
EFL	15 to 75mm
F#	1.2
H/FOV	24.8° to 4.9°
Focus	Electronic
Optical Zoom	5X

SYSTEM



Digital Video Output	14-bit/8-bit LVCMOS or CameraLink®
Analog Video Output	NTSC/PAL (requires feature board)
NUC	Internal Shutter and External
Image Enhancement	Image Contrast Enhancement (ICE™) with gain and level bias controls
Color Palette Options	24-bit RGB and YUV (4,2,2) Superframe
Digital Zoom / Pan	1X to 4X
Camera Control/Command Interfaces/System Control	UART/RS-232 USB 2.0 (with feature board) USB-C (with dev kit)



Narrow Zoom Towers at 5km