

# VINDEN 75T

LWIR ZOOM SERIES WITH ON-BOARD PROCESSING

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. A high-performance continuous zoom lens combined with a feature-rich, user-friendly control board.

- + 640 x 512, 10 $\mu$ m LWIR detector
- + 75 mm lens models
- + 60 Hz frame rate
- + OEM integration-ready

## DETAILS

Vinden 75T is a high-value, long-range thermal imager with an OEM-friendly designed to simplify and streamline the systems integration process. It's continuous zoom optics feature precisely tuned one-touch autofocus that creates a sharp image throughout the zoom process. Consistent across all Sierra-Olympia camera systems, Vinden 75T provides on-board image processing, on-board recording and storage, auto-focus, electronic image stabilization, H.264 / H.265 encoding and a suite of other advanced options.

## APPLICATIONS

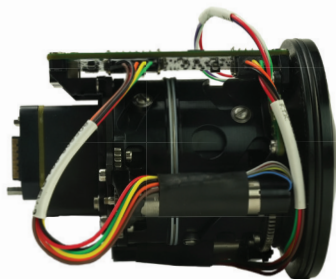
- + Custom OEM integration
- + PTZ systems
- + Port, airport, border security
- + Security and surveillance
- + Manned or unmanned
- + Around-the-clock operations



*Narrow Zoom Bridge at 1.75km*



*Narrow Zoom Truck at .15km*



# VINDEN 75T

LWIR ZOOM SERIES WITH ON-BOARD PROCESSING

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

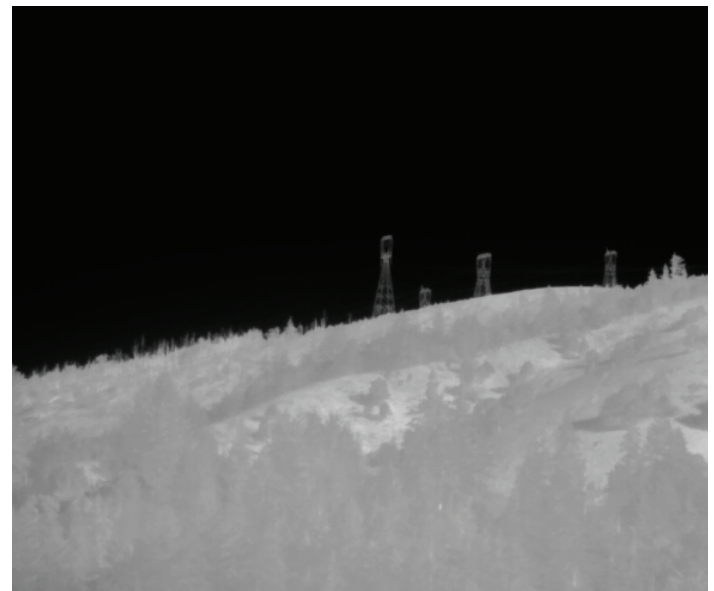


	<b>75 mm</b>
EFL	15 to 75mm
F#	1.2
H/FOV	24.8° to 4.9°
Focus	Electronic
Optical Zoom	5X

### 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