

# VINDEN LRB

LWIR ZOOM SERIES WITH ON-BOARD PROCESSING

The Vinden LRB series of LWIR camera cores is a proven, integration-ready thermal imaging solution that combines a powerful, low-SWaP detector with high-performance continuous zoom lens options and a feature-rich, user-friendly control board.

## DETAILS

Vinden LRB provides high-value, long-range thermal imaging capabilities in an OEM-friendly package designed to simplify and streamline the systems integration process.

Continuous zoom optics feature highly-tuned one-touch autofocus that remains sharp and reliable throughout the zoom range. Consistent across all Sierra-Olympic camera systems, Vinden LRB 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



- + 640 x 512, 12 $\mu$ m LWIR detector
- + 75 mm, 300 mm lens models
- + Familiar Sierra-Olympia user interface
- + 60 Hz frame rate
- + Tested, calibrated, integration-ready



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EXPORT CLASSIFICATION: DUAL USE

## FEATURE SPECS

### DETECTOR



Detector Type	Uncooled VOx Microbolometer
Array Format	640 x 512
Pixel Pitch	12 µm
Spectral Response	LWIR
Frame Rate	60 Hz max
Bit Depth	16-bit
NETD	<40 mK (Industrial) <50 mK (Professional) <60 mK (Consumer)

### ENVIRONMENTAL



Power Dissipation	11.5W to 14W maximum
Operating Temperature	0° to +50°C
Input Voltage	11 to 14 VDC

### SYSTEM



Digital Video Output	HDMI SDI (with adapter) Camera Link®
IP Video Output	Ethernet (H.264, H.265)
NUC	NUC through zoom
Image Enhancement	Linear Histogram AGC CLAHE LAP Sharpen De-noise Electronic image stabilization
Color Palette Options	User color palette / LUT
Digital Zoom / Pan	1X to 16X
Onboard Storage	32 GB standard, expandable to 512 GB
Camera Control/ Command Interfaces/ System Control	Ethernet Serial (RS-422/RS-232)

### LENS MODELS



	75mm	225mm	300mm
EFL	15 to 75mm	25 to 225mm	40 to 300mm
F#	1.2	1.5	1.5
Size (L x D)	105 x 75mm	254 x 178mm	360 x 250mm
Weight	434g	4,750g	9,731g
Focus	One-touch Autofocus, manual	One-touch Autofocus, manual	One-touch Autofocus, manual
Optical Zoom	1X	9X	7.5X
Environmental Coating	DLC or AR	AR	DLC or AR