



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.

- + 640 x 512, 12µm LWIR detector
- + 75 mm, 300 mm lens models
- + Familiar Sierra-Olympic user interface
- + 60 Hz frame rate
- + Tested, calibrated, integration-ready

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





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EXPORT CLASSIFICATION: DUAL USE

FEATURE SPECS

DETECTOR



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

ENVIRONMENTAL



Size (L x D)	75 mm: 105 x 75 mm 300 mm: 360 x 250 mm
Weight	75 mm: 434g 300 mm: 9,731g
Input Voltage	11 to 14 VDC
Power Dissipation	14W
Operating Temperature	0° to +50°C
Mounting	¼-20 Tripod mount, ⅜-16 Tripod mount, M4 Tapped mounting holes

LENS MODELS



	75 mm	300 mm
EFL	15 to 75 mm	40 to 300 mm
F#	1.2	1.5
FOV	28.7° to 5.9°	11° to 1.5°
Focus	One-touch auto focus	One-touch auto focus
Optical Zoom	5x	7.5x
Environmental Coating	DLC or AR	DLC or AR

SYSTEM



Digital Video Output	HDMI, SDI (with adapter), CameraLink®
IP Video Output	Ethernet (H.264, H.265)
NUC	NUC through zoom
Image Enhancement	Linear histogram AGC, CLAHE, LAP, sharpen, de-noise, electronic imagev stabilization
Color Palette Options	User color palettes/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)

