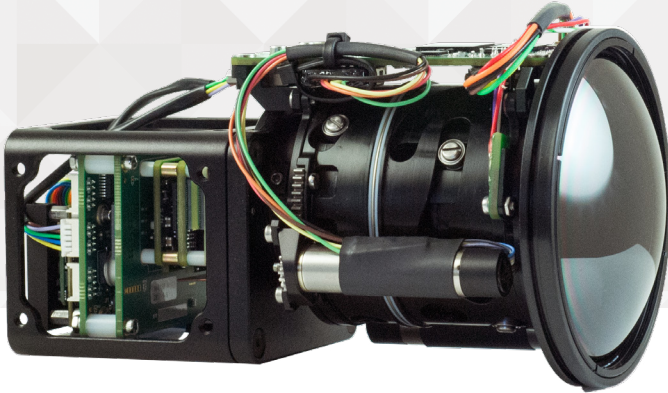


# VINDEN 75 LR

COMPACT CONTINUOUS ZOOM THERMAL CAMERA



SIERRA-OLYMPIC  
Technologies Inc.



The Vinden 75 LR provides continuous zoom, advanced image processing, and high-performance long-wave infrared (LWIR) thermal imaging in an unmatched small SWaP-C (size, weight, and power, and cost) package. The athermalized lens provides the benefits of both very wide (59°) and narrow (6°) horizontal fields of view (HFOV). Highly tuned one-touch autofocus operates quickly and reliably throughout the zoom range. Two options allow short or narrow mounting form factors, making the Vinden 75 LR a superb product for integrators of unmanned ground/aerial systems, and security and surveillance products.

The Vinden 75 LR's 12- $\mu$ m 640 x 480 thermal imaging core utilizes a small pixel size to offer high sensitivity and high framerate video. Paired with the core is a powerful processing engine that provides Ethernet and serial connectivity, MJPEG/H.264 encoded IP video streaming, digital zoom, electronic image stabilization, 32GB of onboard storage and advanced image processing functions such as manual and automatic gain control, adaptive contrast control (CLAHE/LAP), target tracking and detection, and a wide array of color palettes. The LWIR camera is regulated under the U.S. EAR regulations (non-ITAR) and can be purchased with either a 60Hz or 7.5Hz framerate sensor.

## APPLICATIONS:

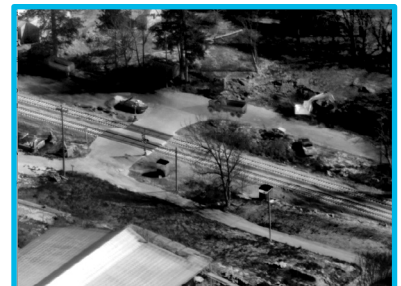
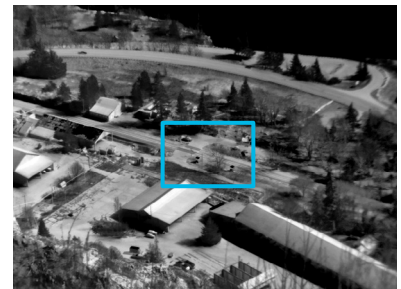
The Vinden 75 LR is ideal for integrators that design thermal and multi-sensor systems for defense, security, surveillance, border, port and base security applications.

## FEATURE HIGHLIGHTS:

- + 12- $\mu$ m 640x480 resolution
- + 60Hz maximum framerate
- + 28.7-5.9° HFOV capability (5x Zoom)
- + Standard and short footprints
- + One-touch autofocus
- + Analog NTSC/PAL, CameraLink® and H.264 IP video outputs
- + Ethernet control connectivity
- + Advanced image processing
- + 32GB on-board video storage
- + Athermalized and parfocal continuous zoom lens
- + Hard-carbon, IP-67 front element
- + Non-ITAR controlled



WIDE



NARROW

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### SYSTEM FEATURES:

| Focal Plane Array                         |  |                                  |
|---|--|----------------------------------|
| Resolution                                | 640x480                                    |                                  |
| Sensor                                    | Uncooled VOx Microbolometer                |                                  |
| Pitch                                     | 12µm                                       |                                  |
| Wavelength                                | 7.5 - 13 µm                                |                                  |
| NETD                                      | <50 mK                                     |                                  |
| Framerate                                 | 60Hz, 7.5Hz                                |                                  |
| Optics, Size, and Weight                  |  |                                  |
| Part Number                               | SL-VN-67-90-00<br>SL-VN-66-90-00           | SL-VN-67-90-01<br>SL-VN-66-90-01 |
| Model                                     | Standard                                   | Short                            |
| Focal Length (mm)                         | 15-75                                      |                                  |
| HFOV (deg)                                | 28.7 - 5.9                                 |                                  |
| Weight (approx)                           | 460g (16.2oz)                              | 452g (15.9oz)                    |
| Envelope Dimensions (L x Dia)<br>(approx) | 137 x 82 mm<br>5.4 x 3.2 in                | 116 x 82 mm<br>4.6 x 3.2 in      |
| Digital Zoom                              | 4x   |                                  |
| Optical Zoom                              | 5x   |                                  |
| F#  | 1.2  |                                  |
| Coating                                   | Hard Carbon                                |                                  |
| Interface                                 |  |                                  |
| Analog Video Output                       | NTSC/PAL                                   |                                  |
| Digital Video Output                      | 16-bit CameraLink                          |                                  |
| IP Video Output                           | MJPEG or H.264 Encoded                     |                                  |
| IP Broadcast                              | Unicast / Multicast                        |                                  |
| System Control                            | Serial or Ethernet                         |                                  |
| Onboard Video Storage                     | Up to 32GB microSD                         |                                  |
| Environmental                             |  |                                  |
| Operating Temperature Range               | -20 to +67C                                |                                  |
| Shock                                     | Operating: 10G / Non-operating: 70G        |                                  |
| Power                                     | 12VDC / 5W nominal (6.3W peak) consumption |                                  |
| Mounting                                  | 1/4-20 Tripod Mount                        |                                  |
| Certification                             | RoHS                                       |                                  |

Specifications and descriptions subject to change without notice.

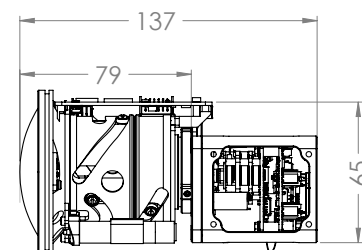
### ADDITIONAL FEATURES:

- + User color palettes / LUT
- + Shutter and Scene-based NUC
- + Spatial/temporal De-noise
- + Automatic Gain Control
- + CLAHE/LAP alpha blending
- + Optional Target Tracking and Detection
- + Electronic Stabilization
- + Picoblade and FFC hardware interfaces
- + Simultaneous analog/digital output

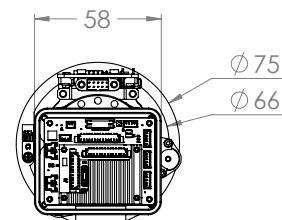
### EXPORT CLASSIFICATION:

Please review regulations at [www.sierraolympic.com](http://www.sierraolympic.com).

- + 7.5Hz- ECCN 6A993. Products are exportable without license for non-military applications to all countries but embargoed countries. End-use documentation required.
- + 60Hz- ECCN 6A003.b.4.b. Products require a license for export. EU/NATO countries, Australia, S. Korea, Japan, New Zeland, Argentina are eligible for STA license exemption. Customer and end-use documentation required. Re-export is controlled under STA rules.



LEFT



BACK

Standard length