

# VIENTO 640

THERMAL CAMERA



SIERRA-OLYMPIC  
Technologies Inc.



*pictured with 14.25mm lens*

The Viento 640 Thermal Camera is a value priced thermal imager designed for a wide range of thermal video camera applications. The Viento 640 offers simultaneous analog and digital thermal video outputs, RS232 or USB camera control, and convenient electrical and mechanical interfacing for industrial, military, and research infrared camera customers.

The Viento 640 is based upon the latest 640x480x17  $\mu\text{m}$  uncooled microbolometer focal plan array technology. Viento 640 includes automatic image normalization with an integrated shutter for perfect image performance every time. With 8 different lens options ranging from 90 degree to 6 degree horizontal field of view (HFOV), a highly capable user GUI, a rich set of camera commands, and numerous other camera features, the Viento 640 offers both value and performance for your thermal imaging application.

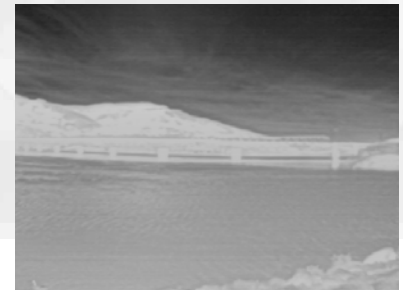
## APPLICATIONS:

- + Process monitoring
- + Industrial imaging
- + Perimeter Security
- + Military Imaging
- + Critical infrastructure
- + Medical Imaging
- + Traffic signal management

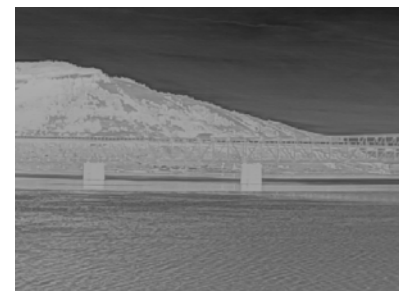
## CAMERA FEATURES:

- + 640x480x17  $\mu\text{m}$  pixels
- + Analog NTSC/PAL video
- + 8-bit or 14-bit Camera Link<sup>®</sup> digital video output
- + Histogram AGC
- + Proprietary Image Contrast Enhancement (ICE)<sup>1</sup>
- + Multiple lens options
- + 2-year warranty

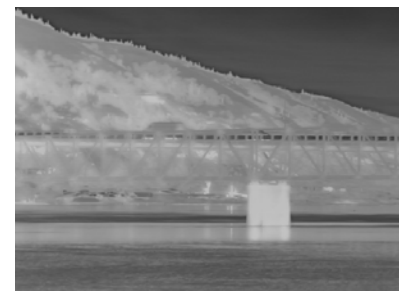
*ICE is a trademarked name of DRS Technologies. Camera Link is a trademarked name of AIA*



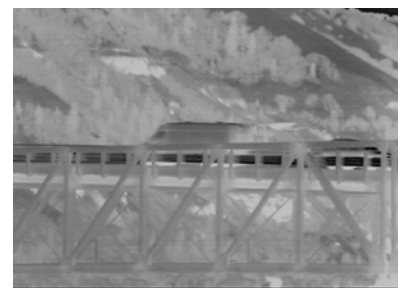
90° FOV



37° FOV



17° FOV



6° FOV

# VIENTO 640

THERMAL CAMERA



SIERRA-OLYMPIC  
Technologies Inc.

## MODELS:



**6° HFOV**  
SL-V1-3N0-A03



**9° HFOV**  
SL-V1-63N0-A9



**12° HFOV**  
SL-V1-63N0-A12



**17° HFOV**  
SL-V1-63N0-A17



**24° HFOV**  
SL-V1-63N0-A2



**37° HFOV**  
SL-V1-63N0-A3



**44° HFOV**  
SL-V1-63N0-A4



**90° HFOV**  
SL-V1-63N0-A7

## FEATURE SPECIFICATIONS:

Detector type	Uncooled VOx Microbolometer
Array size	640 x 480
Pixel pitch	17 um
Response range	8-14 um
NEdT @f/1.0	< 50 mK
Frame rate (fps)	30 or 9
Analog video	NTSC, PAL
Digital Video	14-bit/8-bit CameraLink®
Auto Gain & Level	User defined; Persistent
Digital Zoom/Pan	ROI, E-zoom 1X -4X
NUC	1 pt. with mechanical shutter
Command protocol	RS-232, USB 2.0
Image enhancement	High setting, low setting
Symbology	selectable, zoom, polarity, shutter

## ENVIRONMENTAL SPECIFICATIONS

Input voltage	5 - 18 vdc, or PoUSB
Power dissipation	1.1 watts
Operating temp.	-40 to +67 C
Shock / Vibration	70 G (all axis) / 4.3 G (three axis)
EMC Radiation	FCC class A digital device
Humidity	5 - 99%, non-condensing
Std. / Compliance	ROHS and WEEE compliance
Sealed lens / lens mt.	IP67

\*Specifications and descriptions subject to change without notice.

