

VIENTO 67-640

THERMAL CAMERA



SIERRA-OLYMPIC
Technologies Inc.



pictured with 50mm lens

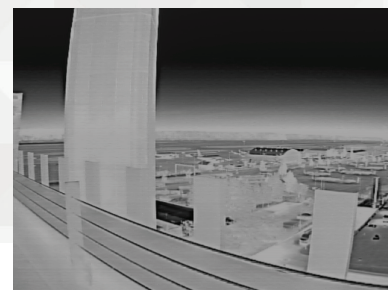
The Viento 67-640 infrared camera is a rugged, cost effective thermal imager designed for outdoor use in perimeter surveillance, robotics, and other outdoor rugged applications. The Viento 67-640 is a fixed focal length, fixed mount thermal imaging solution offering standard NTSC/PAL composite video output as well as uncompressed digital output for applications requiring full-fidelity data transmission. The camera is suitable for careful object detection, object classification, slew-to-cue, and other processor-interface applications such as motion detection and analysis and enhanced image processing. The Viento 640-67 is designed to be installed outdoors and operate in wet, dusty, difficult conditions.

The Viento 67-640 utilizes a 640x480 resolution array with 17um pixels. The camera is based on the industry-leading technology from DRS Commercial Infrared Systems. Viento 67-640 includes automatic image normalization with an integrated shutter for perfect image performance every time. The Viento 67-640 features Image Contrast Enhancement (ICE™) for scenes with low thermal contrast. Multiple lens options from wide 90 deg HFOV to narrow 6 deg HFOV are offered.

Additional features include custom lens calibration options, color palettes (on digital only), digital zoom and scroll. The Viento 67-640 series cameras are exportable under ECCN 6A003.b.4.b for 30Hz versions, and 6A003 for 9Hz versions. Contact Sierra-Olympic or your own export compliance officials for details.

APPLICATIONS:

- + Process monitoring
- + Industrial imaging
- + Security applications
- + Rugged military imaging
- + Robotics
- + Traffic management
- + Maritime imaging



90° FOV



37° FOV



17° FOV



6° FOV

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CAMERA FEATURES:

- + 640 x 480 x 17um
- + Analog NTSC/PAL video
- + 8-bit or 14-bit Camera Link® digital video output
- + Histogram AGC

FEATURE SPECIFICATIONS:

Detector type	Uncooled VOx Microbolometer
Array size	640 x 480
Pixel pitch	17 um
Response range	8-14 um
NEΔT @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	DRS ICE™
Symbology	selectable, zoom, polarity, shutter
Lens focus	Thread Focus, Athermalized, all models
Camera Weight	12.96 oz (367 g)

ENVIRONMENTAL SPECIFICATIONS

Input voltage	5 - 18 vdc, or PoUSB
Power dissipation	1.1 watts
Operating temp.	-40 to +67 C, non-icing
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
Sealing: Lens, connectors at camera	IP67

- + Proprietary Image Contrast Enhancement (ICE)¹
- + Multiple lens options
- + 2-year warranty
- + All lenses athermalized

MODELS:

6° HFOV AF, 100mm

SL-V2-63No-A06
Lens Weight: 619 g

9° HFOV AF, 65mm

SL-V2-63No-A09
Lens Weight: 711 g

12° HFOV AF, 50mm

SL-V2-63No-A12
Lens Weight: 483 g

17° HFOV AF, 35mm

SL-V2-63No-A17
Lens Weight: 354 g

24.8° HFOV AF, 25mm

SL-V2-63No-A24
Lens Weight: 306 g

37° HFOV AF, 16.7

SL-V2-63No-A37
Lens Weight: 279 g

44° HFOV AF, 14.25mm

SL-V2-63No-A44
Lens Weight: 299 g

50° HFOV AF, 12.8mm

SL-V2-63No-A50
Lens Weight: TBD

70° HFOV AF, 9mm

SL-V2-63No-A70
Lens Weight: TBD

90° HFOV AF, 7.5mm

SL-V2-63No-A90
Lens Weight: 300 g