

VIENTO



SIERRA-OLYMPIC

Technologies Inc.

Plug-and-play LWIR in 640 or 320 format



The Viento series of long-wave infrared cameras is designed for reliable, cost-effective and versatile thermal imaging. A wide variety of lenses, easy-to-use interfaces and 640 or 320 resolution options allow users to select the ideal setup for their specific needs and applications.

- + 17 μm uncooled VOx Microbolometer
- + Standardized interfaces for ease of use
- + 640 x 480: 10 lens options
- + 320 x 240: 8 lens options

Details

The Viento series is a high performance, value-priced thermal imager designed for ease of use in a wide range of applications. The camera offers simultaneous analog and digital thermal video outputs, RS232 or USB camera control, and convenient electrical and mechanical interfacing.

Automatic image normalization with an integrated shutter, a highly-capable user GUI and a rich set of camera commands and features ensures consistent, quality imagery and ease of use.

Applications

- + General thermal imaging
- + Process monitoring
- + Industrial imaging
- + Medical imaging
- + Persistent security and surveillance
- + Traffic signal management
- + Custom OEM integration



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PLUG-AND-PLAY LWIR IN 640 OR 320 FORMAT

Feature specs

DETECTOR

Detector type	Uncooled VOx Microbolometer
Array format	640 x 480 or 320 x 240
Pixel pitch	17 μ m
Spectral response	LWIR
Frame rate	640 x 480: 30 Hz or 9 Hz 320 x 240: 60 Hz or 9 Hz
NE Δ T @F/1.0	<50 mK (NE Δ T) f/1.0 at room temp

SYSTEM

Digital video	14/8-bit LVCMOS/CameraLink
Analog video	NTSC (480i); PAL (576i) field switchable
Command Interfaces	RS-232, USB 2.0
Auto gain & level	User defined; Persistent
Digital zoom/pan	ROI, E-zoom 1X-4X
Symbology	Selectable, zoom, polarity, shutter
External sync	Yes
Image enhancement	Image Contrast Enhancement (ICE)
NUC	1 pt. with shutter or through lens
Custom lens calibration	Storage for up to 5 LUTs

ENVIRONMENTAL

Operating temperature	-40°C to +70°C
Input voltage	5-18 vdc, or PoUSB
Electrical Interface	Power over USB
Power Dissipation	1.4 watts
Std./Compliance	ROHS compliance

Export Classification: Dual Use



LENS

Lens	Athermalized
Focus	Thread focus

640 options

- 100 mm (6.2°), f/1.6
- 65 mm (9.6°), f/1.2
- 50 mm (12.4°), f/1.2
- 35 mm (17.6°), f/1.2
- 25 mm (24.8°), f/1.2
- 16.7 mm (37.5°), f/1.25
- 14.25 mm (44°), f/1.4
- 12.8 mm (49.8°), f/1.4
- 9 mm (70°), f/1.4
- 7.5 mm (90°), f/1.4

320 options

- 100 mm (3.1°), f/1.6
- 50 mm (6.2°), f/1.2
- 35 mm (9°), f/1.2
- 19 mm (16°), f/1.1
- 12.8 mm (24.6°), f/1.4
- 7.5 mm (41.8°), f/1.4
- 5.3 mm (60°), f/1.46
- 3.8 mm (90°), f/1.4