

VIENTO-GT



SIERRA-OLYMPIC
Technologies Inc.

Thermography camera with Gig-E interface

The Viento-GT is a thermographically calibrated long-wave infrared camera packed with features and designed for a wide range of temperature detection, monitoring and measurement applications.

- + Uncooled LWIR, VOx microbolometer
- + 640 x 480 or 320 x 240 (17um)
- + Wide range of lens options available
- + Uncompressed digital video output
- + Available in enclosure or as split board

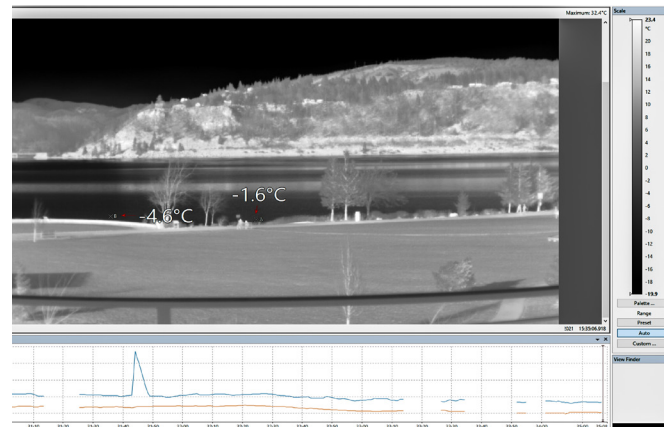


Details

The Viento-GT is capable of delivering reliable and accurate thermographically-calibrated digital data for every pixel. The camera offers the ability to view video, power, and control the camera easily through one Ethernet cable using the GigE Vision® and Power over Ethernet (PoE) standards.

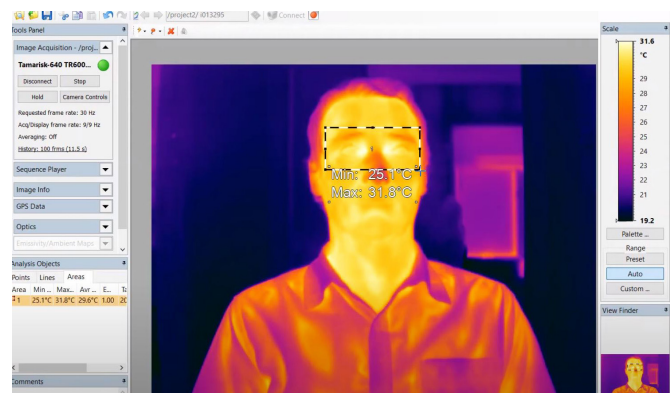
Available in 640 and 320 models, each with a variety of lenses, the Viento-GT is ideal for out-of-the-box usage or custom OEM applications where a high-performance, low-cost thermal imager is required.

The camera is available in two form factors, enclosed and split board.



Applications

- + All-purpose thermography
- + EBT measurement
- + Industrial, manufacturing
- + Process monitoring
- + Custom OEM applications
- + Bio/medical imaging
- + Academic settings
- + General thermal imaging



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Detector

Detector Type	Uncooled Vox Microbolometer
Array Format	640 x 480 or 320 x 240
Pixel Pitch	17 μ m
Spectral Band	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
GENLOCK trigger	Optional, Master or Slave
Auto gain & level	User defined; Persistent
Digital zoom/pan	ROI, E-zoom 1X-4X
Symbology	Selectable, zoom, polarity, shutter
Electrical Interface	Gigabit Ethernet/PoE: RJ45 GENLOCK: SMA (enclosed) or PicoBlade (split board)
Custom lens calibration	Storage for up to 5 LUTs
Image Acquisition	GigE Vision [®]
Color Palette Options	6 color palette options (color mode)
Configurations	Enclosed, Split Board Set
NUC	1 pt. with mechanical shutter

System

Digital video output	GigE Vision [®] (color, 8-bit AGC, 16-bit temperature calibrated)
Camera Control	Serial byte stream over IP

Environmental

Input Voltage	PoE (nominal 48VDC, 802.3af)
Power Dissipation	Approximately 3 watts maximum
Operating temperature	0 to +70 °C
Std./Compliance	ROHS compliance



Lens models

320 Lens Options

- 3° HFOV AF
- 6° HFOV AF
- 9° HFOV AF
- 15° HFOV AF
- 16° HFOV AF
- 24° HFOV AF
- 27° HFOV AF
- 40° HFOV AF
- 42° HFOV AF
- 90° HFOV AF

640 Lens Options

- 6° HFOV AF
- 9° HFOV AF
- 12° HFOV AF
- 17° HFOV AF
- 24° HFOV AF
- 37° HFOV AF
- 44° HFOV AF
- 90° HFOV AF



Viento-GT Split Board option available for all lens models