

# VIENTO-GT

THERMOGRAPHY CAMERA WITH GIG-E VISION INTERFACE



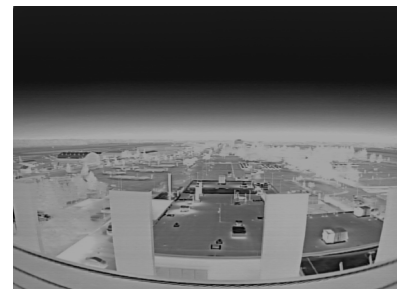
SIERRA-OLYMPIC  
Technologies Inc.



9° FOV



24° FOV



90° FOV

The Viento-GT is a thermographically calibrated thermal camera that is easy-to-use, packed with features, and designed for a wide range of thermal monitoring applications. The Viento-GT is capable of delivering thermographically calibrated digital data for every pixel, and 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 several form factors and resolutions and with a variety of lenses, the Viento-GT is ideal for custom OEM applications. The Viento-GT excels where a highly reliable, high resolution, and low cost thermal imager is required.

The camera is available in two form factors, enclosed and split board, and each form factor can use either the 320 x 240 or 640 x 480 resolution detectors.

## APPLICATIONS:

- + Temperature measurement (Thermography)
- + Non-Destructive Testing/Inspection (NDT, NDI)
- + Real-time process monitoring
- + Industrial imaging
- + Medical imaging
- + Hot spot detection
- + Quality control/assurance

## CAMERA FEATURES:

- + Low Size, Weight, and Power (SWaP)
- + High Resolution Thermography Imaging
- + Thermographic data available for every pixel
- + Innovative Microbolometer GENLOCK
- + Uncompressed 8-bit and 16-bit digital video options
- + Power, Control, and Video over a single cable (Ethernet)
- + Easy Export Models Available
- + 2-year warranty

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## 320 LENS OPTIONS:

**9° HFOV AF**  
35mm

**16° HFOV AF**  
19mm

**24° HFOV AF**  
13mm

**40° HFOV AF**  
7.5mm

## 640 LENS OPTIONS:

**12° HFOV AF**  
50mm

**17° HFOV AF**  
35mm

**37° HFOV AF**  
16.7mm

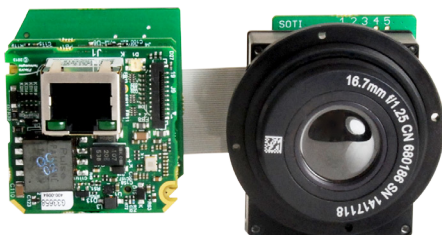
## FEATURE SPECIFICATIONS:

Detector Type	Uncooled VOx Microbolometer
Array Size	640 x 480 or 320 x 240
Pixel Pitch	17 um
Response Range	8-14 um
NEdT @f/1.0	< 50 mK
Frame Rate (fps)	640 x 480: 30Hz or 9Hz 320 x 240: 60Hz, 9Hz
Camera Control	GigE Vision®
Image Acquisition	GigE Vision®
Digital Video Output	color, 8-bit, 14-bit
GENLOCK Trigger	Configurable as Master or Slave
Auto Gain & Level	User defined; Persistent
Digital Zoom/Pan	ROI, E-zoom 1X -4X
NUC	1 pt. with mechanical shutter
Command Protocol	Serial byte stream over IP
Image Contrast Enhancement	On/Off, 10 levels of enhancement
Symbology	selectable, zoom, polarity, shutter
Configurations	Enclosed, Split Board Set
Electrical Interface	Gigabit Ethernet/PoE: RJ45 GENLOCK: SMA (enclosed) or PicoBlade (split board)
Color Palette Options	9 color palette options (color mode)
Available Software	Analyzer, Player, SDK

## THERMOGRAPHIC SPECIFICATIONS

Image Enhancement	7 levels of Image Contrast Enhancement (ICE™) ICE-o-Therm™ (8 definable temperature regions)
Color	Radiometric 24-bit RGB and YUV(4,2,2)
Dynamic Range	-40° to +550°C (2 Gain states) High Gain (-40°C to +80°C) Low Gain (0°C to +550°C)
Radiometric Accuracy (the greater of)	High Gain: ±5°C or ±10% (the greater of) Low Gain: ±20°C or ±20%
Spotmeter	User defined temperature zone size with custom positioning across array
Region of Interest	User defined size and location

## SPLIT CONFIGURATION



## ENVIRONMENTAL SPECIFICATIONS

Input Voltage	PoE (nominal 48VDC, 802.3af)
Power Dissipation	Approximately 3 watts maximum
Operating Temp	-0° to +67° C
EMC Radiation	FCC class A digital device
Humidity	5 - 99%, non-condensing
Std. / Compliance	ROHS and WEEE compliance

\*Specifications and descriptions subject to change without notice.