

VIENTO-GT

THERMAL CAMERA



SIERRA-OLYMPIC
Technologies Inc.



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.



9° FOV



24° FOV



90° FOV

APPLICATIONS:

- + Temperature measurement (Thermography)
- + Real-time Process monitoring
- + Industrial imaging
- + Medical Imaging
- + Hot spot detection
- + Bio medical imaging
- + Non-Destructive Testing/Inspection (NDT, NDI)
- + Quality control and quality assurance

CAMERA FEATURES:

- + High Resolution
- + Low Cost Thermography
- + Uncompressed 8 or 16 bit digital video options
- + Thermographic data available for every pixel
- + Power, Control, and Video over a single cable (Ethernet)
- + Proprietary Image Contrast Enhancement (ICE)
- + Wide array of lens options
- + 2-year warranty
- + Compact and Low Power
- + Easy Export Models Available

VIENTO-GT

THERMAL CAMERA



SIERRA-OLYMPIC
Technologies Inc.

320 LENS OPTIONS:

9° HFOV AF

16° HFOV AF

24° HFOV AF

40° HFOV AF

640 LENS OPTIONS:

12° HFOV AF

17° HFOV AF

37° HFOV AF

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 |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-------------------|-------------------------------|
| Input Voltage | PoE (nominal 48VDC, 802.3af) |
| Power Dissipation | Approximately 3 watts maximum |
| Operating Temp | -0° to +70° 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.