



# VENTUS COMPACT

MK2: 19-275 MM MWIR FOR LOW-SWAP APPLICATIONS

## DETAILS

The Ventus Compact mk2 mid-wave infrared camera was designed specifically for space-constrained integrations in airborne, handheld, and other low-SWaP applications. The system features an advanced, 19-275 mm continuous zoom optic, one-touch autofocus, advanced image processing, and a unified easy to integrate software architecture. This updated version of the Ventus Compact product offers effective long range imaging in a small and light form factor.

Outputs include IP and HDMI, as well as 16-bit CameraLink and USB 3.0 digital output. In-camera automatic gain control and advanced digital enhancement provide tools for maximizing image quality and performance in all environments.

## FEATURE SPECS

### DETECTOR



|                   |                          |
|-------------------|--------------------------|
| Detector Type     | High operating temp MWIR |
| Array Format      | 640 x 512                |
| Pixel Pitch       | 15 Micron                |
| Spectral Response | MWIR                     |
| Frame Rate        | 60 Hz                    |
| Bit Depth         | 16-bit                   |
| NETD              | <30 mK                   |

### LENS MODELS



|                       |                             |
|-----------------------|-----------------------------|
| F#                    | 5.5                         |
| FOV (wide to narrow)  | 28.4° TO 2.0°               |
| Size (L x W x H) mm   | 150 x 77 x 85 mm            |
| Weight                | 945g (estimated)            |
| Focus                 | One-touch autofocus, manual |
| Optical Zoom          | 14X                         |
| Environmental Coating | Hard Carbon                 |

- + 19-275 mm continuous zoom optic
- + 640 x 512 resolution / 15 μm detector
- + Low SWaP ~945g
- + Long-life HOT MWIR sensor
- + Powerful image processing options
- + Low Vibration Cooler

## APPLICATIONS

- + Low-SWaP aerial integration
- + Port, airport, border security
- + Long range detection
- + Manned/unmanned systems
- + Airborne ISR
- + PTZ Camera Systems
- + Portable handheld imaging
- + Custom OEM applications

## SYSTEM



|  |   |
|--|---|
| Digital Video Output                             | HDMI (NUC/BPR)<br>16-bit CameraLink® (raw)<br>16-bit USB 3.0 (raw)                  |
| IP Video Output                                  | H.264 / H.265 (NUC/BPR)   |
| NUC  | NUC through zoom  |
| Image Enhancement                                | Linear histogram AGC, CLAHE, LAP, sharpen, de-noise, electronic image stabilization |
| Color Palette Options                            | User color palettes/LUT   |
| Digital Zoom / Pan                               | 1X to 16X   |
| Onboard Storage                                  | 32GB Std. Expandable to 512GB   |
| Camera Control/Command Interfaces/System Control | Ethernet<br>Serial (RS-422/RS-232),<br>Aux serial in/out                            |
| Input Voltage                                    | 12VDC   |

## ENVIRONMENTAL



|                       |                            |
|-----------------------|----------------------------|
| Power Dissipation     | 10W Steady State / 24W max |
| Operating Temperature | -20°C to +50°C             |