



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	150x77x85 (estimated)
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) 16-bit CameraLink® (raw) 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 Serial (RS-422/RS-232), Aux serial in/out
Input Voltage	12VDC

ENVIRONMENTAL



Power Dissipation	11W typ / 19W Max (estimated)
Operating Temperature	-20°C to +50°C (estimated)