

VENTUS HOT

VGA RESOLUTION MWIR WITH LONG LIFE COOLER

Ventus HOT is a fully unified and integration-ready mid-wave infrared camera core that combines cutting-edge HOT (high operating temperature) detector technology with a suite of continuous zoom optics and powerful image processing capabilities.

- + 300 mm, 690 mm, 900 mm lens models
- + 640 x 512, 60 Hz imaging
- + Continuous and one-touch autofocus
- + Motorized continuous optical zoom
- + Powerful image processing features

DETAILS

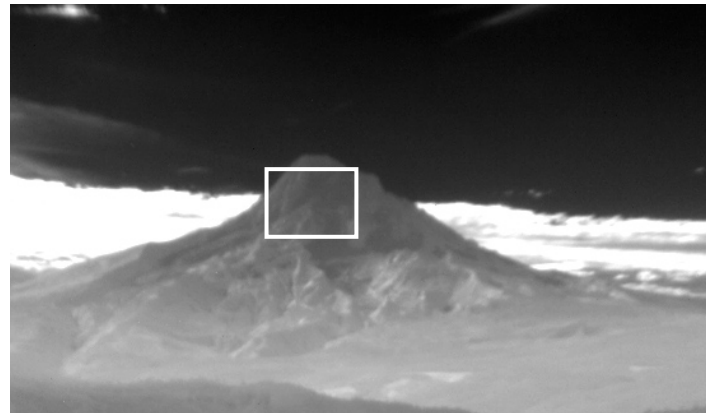
Designed for critical long-range security and surveillance operations, Ventus HOT operates at temperatures far warmer than do traditional InSb MWIR detectors, which means decreased load on the cooling mechanism, faster cool-down times, longer overall cooler life and lower overall cost of ownership. The camera delivers crisp, clear imagery at 15 μ m pixel pitch and 640 x 512 resolution, with 15-300 mm, 35-690 mm and 45-900 mm, F4.0 lens models.

Ventus HOT is tuned for high atmospheric transmission with low absorption by suspended water vapor and CO₂, meaning that it delivers the best imagery possible in a diversity of environmental conditions. Additionally, a powerful processing engine provides a wide range of enhancements and features, including electronic image stabilization, digital zoom, automatic/manual gain control, adaptive contrast control (CLAHE/LAP), stock and user-defined LUTs and more.

Digital video is offered via HDMI or SDI and H.264/H.265 encoded IP stream. Command is over RS422/RS232 serial and/or Ethernet using command and hardware interfaces that are standardized across much of Sierra-Olympic's product line.

APPLICATIONS

- + Superior long-range imaging
- + Port, airport, border security
- + Around-the-clock monitoring
- + Security and surveillance
- + Manned, unmanned vehicles
- + Custom integration
- + Long-distance DRI
- + Asset/infrastructure



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EXPORT CLASSIFICATION: DUAL USE

FEATURE SPECS

DETECTOR



Detector Type	High operating temperature MWIR
Array Format	640 x 512
Pixel Pitch	15 Micron
Spectral Response	MWIR
Frame Rate	60 Hz

LENS



F#	4.0
Focus	One-touch autofocus, manual
Optical Zoom	20x
Digital Zoom	1 to 16x

SYSTEM



Digital Video Output	HDMI, SDI
IP Video Output	Ethernet (H.264, H.265)
NUC	NUC through zoom
Image Enhancement	Linear histogram AGC, CLAHE, LAP, sharpen, denoise, electronic image stabilization,
Color Palette Options	User color palettes/LUT
Onboard Storage	32GB std., expandable to 512GB
Camera Control/Command Interfaces/System Control	Ethernet Serial (RS-422/RS-232)

ENVIRONMENTAL



	Ventus HOT 300	Ventus HOT 690	Ventus HOT 900
Operating Temperature	0°C to +50°C	0°C to +50°C	0°C to +50°C

LENS MODELS



	Ventus HOT 300	Ventus HOT 690	Ventus HOT 900
Lens F#	4.0	4.0	4.0
FOV or H/FOV	35.1° to 1.8°	15.2° to 0.8°	11.4° to 0.61°
Size (L x W x H)	261 x 106 x 106 mm	396 x 210 x 210 mm	476 x 286 x 286 mm
Weight	1,920g	5,220g	8,340g
Focus	One-touch autofocus, manual	One-touch autofocus, manual	One-touch autofocus, manual
Optical Zoom	20X	20X	20X

