



VENTUS 275, 700

LONG-RANGE, COOLED MWIR

The Ventus 275 and 700 are equipped with a cooled InSb mid-wave infrared sensor that delivers exceptional infrared imaging capabilities. Continuous zoom autofocus lens technology, advanced image processing and streamline design make this an ideal mid-wave zoom camera for integrators looking to place powerful imaging capabilities in their systems.

DETAILS

See further while not compromising footprint or weight. A 15 μ m-pitch InSb focal plane array provides a 640 \times 512 image that leverages the superior optical quality of the highly tuned athermalized and parfocal zoom lenses ranging from 28.4-0.8 $^\circ$ HFOV. A powerful processing engine provides electronic image stabilization, digital zoom, automatic/manual gain control, adaptive contrast control (CLAHE/LAP), target tracking and detection, stock and user-defined LUTs, and 32GB of onboard video/still storage. The control and video interface offers digital (CameraLink) and analog video as well as an H.264-encoded IP stream. Command over serial and/or Ethernet using connection interfaces standardized across the wide Ventus™ and Vinden LR™ product lines.

Two lens options (19-275mm, 48-700mm) provide a uniquely cost-effective solution for applications such as security and surveillance, fixed monitoring, defense, manned/unmanned ground and airborne platforms, and many more. Sierra Olympia Technologies' expert support in documentation and staff make the integration of Ventus products a nearly drop-in experience. The Ventus cameras are also easily exportable under US Commerce regulations.

APPLICATIONS

- + Security and surveillance
- + Essential Imagery
- + Manned or unmanned systems

- + Simultaneous analog/digital output
- + Continuous Zoom with Auto Fous
- + Image Stabilization
- + Ideal for fixed, ground or airborne platforms





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EXPORT CLASSIFICATION: DUAL USE

FEATURE SPECS

DETECTOR



Detector Type	IDC InSB
Array Format	640 x 512
Pixel Pitch	15 Micron
Spectral Response	MWIR
Frame Rate	30 Hz
Bit Depth	14-bit
NETD	<65 mK

ENVIRONMENTAL



Size (L x W x H)	275 mm: 198 x 102 x 95 mm 700 mm: 309 x 160 x 160 mm
Weight	275 mm: 1,150g 700 mm: 2,780g
Input Voltage	12VDC
Power Dissipation	10.5W typical 15W peak
Operating Temperature	-20C° to +60°C
Mounting	¼-20 Tripod mount, M4 Tapped mounting holes

LENS OPTIONS



FOV	275 mm: 28.4° to 2.0° 700 mm: 11.4° to 0.8°
F#	5.5
Focus	One-touch autofocus, manual
Optical Zoom	275 mm: 14x 700 mm: 15x
EFL	275 mm: 19 to 275 mm 700 mm: 48 to 700 mm

SYSTEM



Analog Video Output	NTSC/PAL
Digital Video Output	Uncorrected 14-bit CameraLink®
IP Video Output	MJPEG or H.264 encoded
NUC	2 NUC tables, 1-point thru lens
Image Enhancement	Linear histogram AGC, CLAHE, LAP, sharpen, de-noise, electronic image stabilization
Color Palette Options	User color palettes/LUT
Digital Zoom / Pan	4x
Onboard Storage	Up to 32GB microSD
Camera Control/Command Interfaces/System Control	Ethernet Serial (RS-422/RS-232)

