

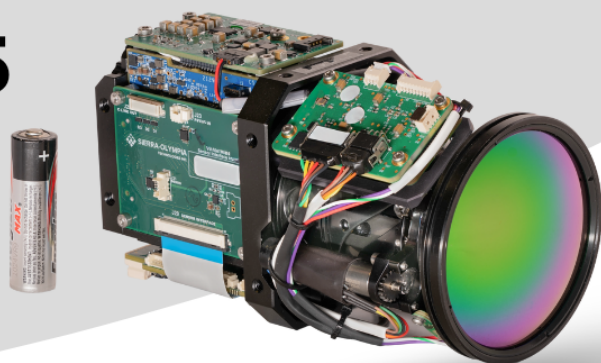


SIERRA-OLYMPIA

TECHNOLOGIES INC.

VENTUS MICRO 225

Compact MWIR Core with
12.5X Continuous Zoom



Engineered for endurance and designed for low-SWaP integration, the Ventus Micro 225 delivers impressive clarity from a compact footprint. With long-life split linear cooler and a 12.5X motorized zoom, it offers exceptional imaging range and contrast, ideal where space and reliability matter most.

Key Features and Benefits

- **Onboard NUC Engine**
2-point NUC through Zoom, with Shutter
- **12.5X Continuous Zoom Lens**
18-225 mm, F/3.6
- **HOT MWIR Detector (640×512×10μm)**
Low Vibration, Split Linear Cooler
- **Compact Low-SWaP-C Integration Core**
MIPI, USB, Custom Upon Request

Product Highlights

Resolution	640 x 512
Frame Rate	60Hz/30Hz
Size (L x W x H)	153 x 80 x 83mm
Operating Temperature	-32°C to 71°C



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Specifications may be revised without notice.
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Ventus Micro 225

Technical Data

INTERFACING

	Ventus Micro 225	Ventus Micro 225 Core
Digital Video Output	IP Video, Ethernet H.264/(H.265) Camera Link HD-SDI with Optional Adapter	MIPI CSI-2 (2 or 4 Lane) Camera Link USB
Onboard Storage	32 GB Standard Expandable to 512 GB	No
Control Channels	Serial (RS-422/RS-232) Ethernet	Serial (RS422/LVTTL)
Input Voltage	11-14 VDC	11-14 VDC
Power Dissipation	Typical: 9.1W Max Cooldown: 13.2W Inrush: 1.8A <5ms	Typical: 6.7W Max Cooldown: 11.5W Inrush: 2.0A

SYSTEM

Focus	One-Touch Autofocus	Electronic Focus
User 1-pt NUC	Internal Shutter	Internal Shutter
Factory 2-pt NUC	Sensor Flood NUC NUC through Zoom	Sensor Flood NUC
Image Enhancement	Linear Histogram AGC, CLAHE, LAP, Sharpen, De-Noise, Electronic Image Stabilization	Temporal and Spatial Filters
Color Palette Options	User color palettes/LUT	No
Digital Zoom	1X to 16X	No

PHYSICAL

Weight	810g	800g
Size (L x W x H)	153 x 80 x 83mm	153 x 80 x 83mm
Operating Temperature	-20°C to 50°C	-32°C to 71°C
Mounting	Qty 12: M4s Qty 1: 1/4-20 Tripod Mount	Qty 12: M4s Qty 1: 1/4-20 Tripod Mount

DETECTOR

Detector Type	HOT XBn
Array Format	640 x 512
Pixel Pitch	10µm
Spectral Response	MWIR (3.6 to 4.2µm)
NETD	<28 mK at 50% well fill capacity
Bit Depth	13-bit
Frame Rate	60/30Hz

LENS

EFL	18-225mm
HFOV (wide to narrow)	20.0° to 1.6°
Optical Zoom	12.5X
F#	3.6
Environmental Coating	LRHC HD optional



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