

# Viper H.264 Series

Standard Definition  
High Definition  
Thermal Imager

## NEW: All Aluminum Housing and PoE++ Power

- Reliable
- Durable
- Light weight
- Energy Wise
- Low maintenance
- Exceptional customer service
- Easily enhance your current system with the Sidewinder Camera
- Versatile for use in any application
- Highways, Intersections, Bridges, Tunnel, Airports, Power plants, Sea Ports, Offshore Rigs, Government, Military, Surveillance, Educational Facilities, Financial Institutions, and more



## H.264 Series Features:

- 0.05° preset repeatability accuracy
  - Continuous 360° rotation in both axes
  - 85-265VAC, 24VAC, PoE++
  - Hydrophilic “self cleaning” glass window.
  - Wide Dynamic Range(WDR), EIS, and DeFog\*
  - H.264/MPEG-4/MJPEG video encoding
  - Optional camera enclosure pressurization
  - ENG Option- locks pan/ tilt motion during vehicle travel
  - Optional RS422-485 Serial control (with composite analog video)
- \*only available on SD and HD versions



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# Viper H.264 Series

## POSITIONER

<b>Pan/Tilt Drive</b>	Pan Angle Range: continuous 360° Tilt Angle Range: continuous 360° Pan Speed: 100°/sec., proportional to zoom Tilt Speed: 100°/sec., proportional to zoom Pan/Tilt Repeatability: 0.05°
<b>Preset</b>	64 preset positions
<b>Title Generation</b>	18 rows of 70 characters using default font and Logo Overlays
<b>Tours</b>	8 tours of 32 presets with individual dwell settings per preset
<b>Protocol</b>	ONVIF, Pelco-D, COHU, NTCIP, Bosch, Diamond, WTI
<b>Firmware</b>	Field upgradeable flash memory

## MECHANICAL

<b>Weight</b>	14.5 lbs. (6.5Kgs)
<b>Vibration (less Lens)</b>	3g (rms) random 5 to 1000Hz, any axis
<b>Air Contaminants</b>	Withstands exposure to sand, dust, fungus, salt atmosphere, per MIL-E-5400T, Paragraph 3.2.24.7, 3.2.24.8, and 3.2.24.9

## ELECTRICAL

<b>Power Input</b>	85-265 VAC, 50/60 Hz, PoE++ or 24 VAC
<b>Power Consumption (with heater on)</b>	50W

## ENVIRONMENTAL

<b>Ambient Temp.</b>	-40° F to +165° F (-40° C to +74° C), conforms to NEMA 2.1.5.1 std. TS2 for traffic control systems
<b>Humidity</b>	100% relative humidity
<b>Protection Rating</b>	IP-67/NEMA-4X/ASTM-B117 (entire camera)

CAMERA	H.264 SD	H.264 HD	H.264 TI
<b>Imager</b>	1/4" color progressive scan, Interline transfer CCD	1/2.8" Exmor CMOS 2.14 Megapixel	7.6-14 Micron VOX Un-cooled microbolometer
<b>Resolution</b>	540 Horizontal TV lines	1080p/720p	225 horizontal TVL
<b>Effective Pixels</b>	768 x 494		320 x 240
<b>Lens</b>	High durability 36X optical zoom, F1.4 with 12X digital zoom	30x optical zoom, F1.6 to F4.7 with 12x digital zoom	7.5 mm Fixed Athermal
<b>Focal Length</b>	3.4 mm ~ 120 mm	4.3mm to 129mm	
<b>Sensitivity</b>	0.25 lux typical down to 0.01 lux in IR mode	On/Off (F1.6 with 50 IRE) High Mode: On 0.35 lux High Mode: Off 1.4 lux	<50mK NEdT (Noise Equivalent Delta Temperature )
<b>S/N Ratio</b>	>52dB	>50dB	>50dB
<b>Iris</b>	Auto or Manual Override	Auto or manual override	
<b>Shutter</b>	Auto or Manual Override	1 second to 1/10,000 second	
<b>Focus</b>	Auto or Manual Override	Auto or manual override	Fixed athermal lens
<b>Electronic Image Stabilization (EIS)</b>		On/Off	
<b>Wide Dynamic Range (WDR)</b>	On/Off	On/Off	
<b>DeFog</b>	Off/On	On/Off	

## H.264/MPEG-4/MJPEG ENCODING ENGINE

<b>Video Encoding</b>	H.264 (Baseline, Main, High Profile, up to level 4), MPEG-4, and MJPEG Standards		
<b>Image Resolution</b>	D1, VGA, HVGA, QVGA, 2CIF	720p, 1080p, D1, VGA, HVGA, QVGA, 2 CIF	D1, VGA, HVGA, QVGA, 2CIF
<b>Video Stream</b>	Seven independent stream configurations		
<b>Streaming Mode</b>	CBR or VBR	CBR or VBR	CBR or VBR
<b>Image setting</b>	GOP (M,N), Quality Value		
<b>Frame Rate</b>	30, 15, 7, 4, 2, 1 (M, N)	30, 15, 7, 4, 2, 1 (M, N)	30, 15, 7, 4, 2, 1 (M, N)
<b>Data Rate</b>	Adjustable from 10K to 8 Mbps in VBR mode and 10K to 3Mbps in CBR mode	Adjustable from 64K to 12Mbps in VBR mode and 64K to 16 Mbps in CBR mode	Adjustable from 10K to 8 Mbps in VBR mode and 10K to 3Mbps in CBR mode
<b>Connection Types</b>	Uni-cast or Multi-cast		
<b>Network Protocol Layers</b>	RTP, RTSP, UDP, TCP, IP, IGMPv2, ICMP, ARP		



MADE IN THE USA



Due to Wireless Technology, Inc.'s continuing efforts to engineer the best product, that is most responsive to our customer's needs, the above specifications are subject to change.