AVIGILON
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4-Port H.264 Analog Video Encoder with Audio Support

Description

The Avigilon H.264 analog video encoder with 4 audio inputs and 4 audio outputs is designed to integrate legacy analog cameras into a High Definition IP surveillance system. It transmits images over 100BASE-TX using H.264 technology to achieve the lowest network bandwidth, and requires minimal storage for video at high frame rates with superior image quality.

The encoder supports NTSC and PAL video standards. It also uses an industry-leading motion adaptive 3D deinterlacing algorithm to produce sharper and more accurate video that is free from interlacing artifacts. The encoder includes an RS-485 interface for PTZ support and an external I/O interface for connecting alarms and relays.

The encoder seamlessly integrates with Avigilon Control Center NVMS and High Definition NVRs. The encoder uses standard network equipment to create a network based surveillance solution with unmatched performance, ease of use, and ease of installation. ONVIF compliance provides support from other leading video management systems. For added flexibility, the encoder can be powered by either Power over Ethernet, 12 VDC or 24 VAC, and up to 3 units can be stored on a single 1U rack mount space with optional bracket.

Features

- 4 video channels
- Max resolution 720 x 480 (NTSC) or 720 x 576 (PAL)
- 30 images per second from each port
- H.264 and Motion JPEG compression
- ONVIF compliant API
- Motion adaptive 3D deinterlacing
- Support for PTZ and dome cameras via RS-485 interface
- Up to 4 privacy zones available per channel
- 4 audio input channels
- 4 audio output channels
- External I/O terminals
- Power over Ethernet, 24 VAC or 12 VDC power input
- Automatically connects to Avigilon Control Center NVMS
- Rack mount kit allows 3 encoders in 1U of rack space

Specifications

Encoder

Video Channels	4
Video Standard	NTSC
	PAL
Video Format	Composite Video 1.0 Vpp with 75 Ohm selectable termination
Video Input	BNC connection
Max Resolution (per channel)	720 (H) x 480 (V) NTSC
	720 (H) x 576 (V) PAL
Image Rate (per channel)	30 NTSC at max. resolution
	25 PAL
Image Compression Method	H.264 (MPEG-4 Part 10/AVC)
	Motion JPEG
Motion Detection	Selectable sensitivity and threshold
Privacy Zones (per channel)	Up to 4 zones
Audio Input Channels	4
Audio Output Channels	4
Audio Compression Method	G.711 PCM 8kHz
Audio Input/Output	Line input/output, I/O mini-jack (3.5 mm)
PTZ Control	RS-485 interface
External I/O Terminals	4 Alarm In, 4 Alarm Out

Network

Network	100BASE-TX
Cabling Type	CAT5
Connector	RJ-45
API	ONVIF compliant (www.onvif.org)
Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log
Protocols	IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP
Streaming Protocols	RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP

Mechanical

Dimensions (LxWxH)	140 mm x 122 mm x 44 mm
	5.5" x 4.8" x 1.7"
Weight	0.62 kg (1.4 lbs)

Electrical

Power Source	VDC: 12 V
	VAC: 24 V
	PoE: IEEE802.3af Class 3 compliant
Power Consumption	8 W
Power Connector	2-pin terminal block

Environmental

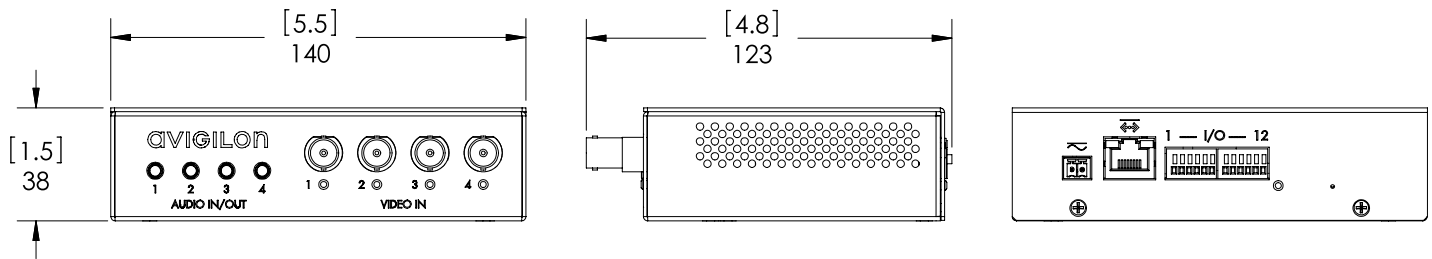|	
Operating Temperature	12VDC: -10°C to +48°C (14°F to 118°F)
	24VAC or POE: -10°C to +50°C (14°F to 122°F)
Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)
Humidity	20 - 80% Relative humidity (non-condensing)

Certifications

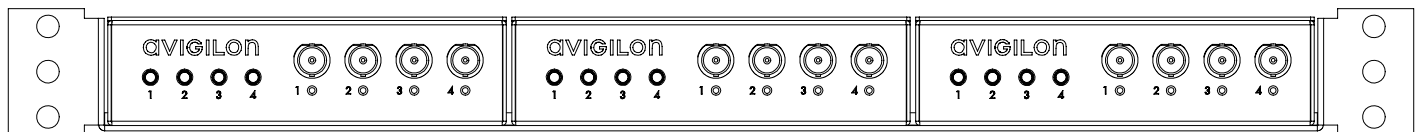|		
	UL 60950	CE
	CSA 60950	ROHS
	EN 60950-1	WEEE
Electromagnetic Emissions	FCC Part 15 Subpart B Class A	
	IC ICES-003 Class A	
	EN 55022 ClassA	
Electromagnetic Immunity	EN 55024 Class A	EN 61000-4-5
	EN 61000-4-2	EN 61000-4-6
	EN 61000-4-3	EN 61000-4-11
	EN 61000-4-4	

Ordering Information

ENC-4P-H264	4-Port H.264 Video Encoder with 4 Audio Inputs and 4 Audio Outputs
ENC-BRK1U	1U EIA (19") Rack Mountable Bracket For 3 ENC-4P-H264

Outline Dimensions

ENC- BRK1U