

H264-16CH-ENCDR HIGH PERFORMANCE 16-CHANNEL VIDEO ENCODER



The Perfect Solution for Hybrid Systems

The H264-16CH-ENCDR Network Encoder is a 16-channel digital video server that converts analog camera inputs into streamed IP video data. This embedded device is specifically designed to integrate into the ViconNet Video Management System (VMS)*. The tight integration into ViconNet provides advanced features, such as museum search, dynamic load balancing and automatic detection in the ViconNet VMS. It offers full support of NTSC/EIA and PAL/CCIR video cameras.

Easy to Install and Configure

The H264-16CH-ENCDR is easily configured using Vicon's exclusive VNSetup utility, which quickly discovers the unit on the network and enables quick assignment of an IP address. In addition, the server supports full PTZ control, alarm reporting, picture quality configuration, external sensors, macros, and alarm configuration.

- Ideal solution for creating hybrid analog/IP systems using analog cameras with IP Video Management Systems
- Up to 16 analog camera video inputs
- Scalable - use several units for multiple cameras
- Supports dual streaming
- Auto-sensing NTSC/PAL
- Maximum video system transmission rate up to 480 fps (400 fps PAL) at 4 CIF or D1 resolution 720 x 480 pixels (720 x 576 PAL)
- 8 alarm inputs, 8 relay control outputs, 8 individual PTZ ports, and 16-line level microphone inputs
- Power over Ethernet (PoE), high power PoE or 24 VAC input power
- Dual network ports for redundancy

Mounting Options

The H264-16CH-ENCDR can be mounted on a desktop using the rubber feet provided or rack mounted in a standard 19-inch rack.

Ordering Information

Description	Model Number
16-channel H.264 encoder	H264-16CH-ENCDR

*Soon to support the ONVIF specification for video servers, which allows it to operate on any ONVIF supporting VMS.

Video Specifications

Video Channels:	16.
Video Formats Supported:	NTSC/EIA and PAL/CCIR.
Video Compression :	H.264.
Video Streaming:	TCP, UDP, unicast and multicast. Refer to table below for ports.
Resolutions:	NTSC: HCIF, CIF, 2 CIF, 4 CIF (352x120 - 720x480); PAL: HCIF, CIF, 2 CIF, 4 CIF (352x144 - 720x576).
Frame Rate:	30/25 fps (NTSC/PAL) per camera at full resolution*.
Alarms:	8 dry contact, N.O./N.C. inputs; 8 relay control (open collector) outputs for external relay box.
Audio:	16 line-level microphone input/1 speaker.
PTZ Control:	8 PTZ ports. 2 RS-422/485 simplex protocol using Phoenix connections.
Diagnostics:	1 RS-232 port for diagnostics messages.
Port for Streaming Video:	Refer to table below. These are for multicasting; use 554 for unicast.

* For high-resolution, high-activity video, there may be a drop off in overall frame rate, which will require working in multicast mode.

Mechanical Specifications

Application:	Indoor.
Mounting:	Desk mounted using rubber feet or rack mounted in a standard 19-in. rack.
Dimensions:	Height (H): 1.5 in. (38 mm). Width (W): 17.5 in. (445 mm). Depth (D): 6.5 in. (165 mm), including connectors.
Weight:	3.3 lb (1.5 kg).
Construction:	Aluminum case/aluminum extrusion.

Ports for Streaming Video (multicast)

Channel No.	Main Stream Port	Secondary Stream Port
1	554	8554
2	8555	8556
3	8557	8558
4	8559	8560
5	8561	8562
6	8563	8564
7	8565	8566
8	8567	8568
9	8569	8570
10	8571	8572
11	8573	8574
12	8575	8576
13	8577	8578
14	8579	8580
15	8581	8582
16	8583	8584

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Specifications subject to change without notice.

Electrical Specifications*

Input Voltage:	24 VAC, ±20%, 50/60 Hz. Power over Ethernet, IEEE 802.3af, or high power PoE.
Current:	1.2 A max. @ 24 VAC. PoE: 0.39 A max. @ 48 VDC.
Power Consumption:	18.7 W.
Heat Output:	66 btu/hour.
Indicators and Connectors:	Front Panel LEDs: Network connectivity, green; network activity, amber; power, blue; application status, amber (constant or blink). Power Connector: 2-pin Phoenix. Network/PoE: 2 RJ-45 jack (2nd for redundancy). USB: 2 (1 front/1 back) (future use). Alarm In/Out: 2 11-pin Phoenix. Input is 8 N.O./N.C. sensor contacts (dry contact). Output is 8 relay controls; up to 5-24 VDC, 500 mA max. per output. Analog Video In: 16 BNC-F connectors. RS-232: 3-pin Phoenix. RS422/485 (PTZ): 2 10-pin Phoenix connectors for transmit (16 channels) and receive; allows to connect without daisy chain. Audio: 2 11-pin Phoenix for microphones and speaker (output not currently used). Storage: SD card slot (for future use) (card not supplied).
Certifications:	UL, CE, FCC, Class A.

*Measured with 16 camera inputs, 1 control line and both USB ports loaded with 500 mA. Future support of internal HDD and SD card will require higher power requirements.

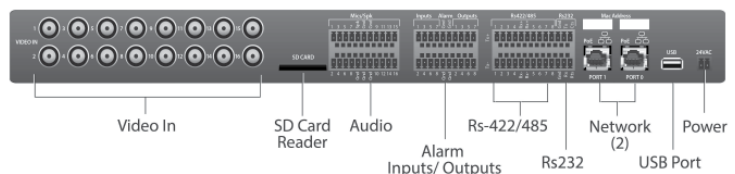
Environmental Specifications

Operating Temperature:	32° to 104°F (0° to 40°C).
Humidity:	Up to 90% relative, non-condensing.

Warranty

3 years parts and labor.

Rear Panel Connectors Diagram



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