

# 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, analytics, 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 (TTL) outputs, 8 individual PTZ ports, and 8-line level microphone inputs
- 24 VAC input power, Power over Ethernet (PoE) or high power PoE
- 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

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

\* 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

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

## Electrical Specifications\*

<b>Input Voltage:</b>	24 VAC, $\pm 20\%$ , 50/60 Hz. Power over Ethernet, IEEE 802.3af, or high power PoE.
<b>Current:</b>	430 mA max. @ 24 VAC. PoE: 285 mA max. @ 48 VDC.
<b>Power Consumption:</b>	13.7 W.
<b>Heat Output:</b>	48 btu/hour.
<b>Indicators and Connectors:</b>	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 a relay control (TTL); terminal block is used to connect to external relay box (logical 0/1 to an actual relay). 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 speakers (output not currently used). Storage: SD card slot (for future use) (card not supplied).
<b>Certifications:</b>	UL, CE; FCC, Class A.

\*Future support of internal HDD, SD card and USB ports will require higher power requirements: Current: 665 mA (24 VAC)/445 mA (PoE+); Power Consumption: 21.2 W; Heat Output: 74.2 btu/hour.

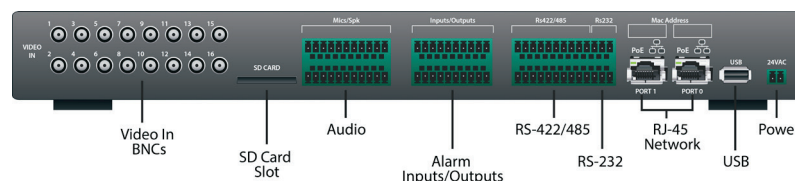
## Environmental Specifications

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

## Warranty

3 years parts and labor.

## Rear Panel Connectors Diagram



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Specifications subject to change without notice.

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