HVE1/4/8 Encoder

1-CHANNEL/4-CHANNEL/8-CHANNEL VIDEO/AUDIO ENCODERS

Honeywell's HVE Series of Video encoders utilize the latest processors and encoding technology to convert analog camera signals into IP streams. These IP streams can be recorded and viewed on Honeywell's MAXPRO® Network Video Recorders (NVRs), and other recording devices that support ONVIF®.

Available in one, four and eight-channel models, these encoders feature a wide range of video compressions, including H.264, which reduces bandwidth and storage over previous compressions. Encode up to 30 fps on every channel at full resolution (4CIF), with the capability of dual streaming.

Each model has a corresponding number of audio channels for recording capability plus a single Audio Out to perform bidirectional audio communication.

Control PTZ cameras through the RS-485 port; PTZ control supports numerous 3rd party PTZ protocols. Alarm inputs and relay outputs are available to trigger events on the NVR and to control external devices. These alarms and events can be reported to the NVR, and can also be sent either by email or by FTP upload directly from the encoder along with a captured JPEG image.

The HVE Series encoders support local storage. The one-channel and four-channel models support a microSD card; the eight-channel model can accommodate a SATA hard drive up to 4 TB. Local storage allows for storing of alarm-triggered recording, continuous, and scheduled recording.

Video playback is easily achieved through the embedded intuitive web browser (IE, Firefox, Chrome, or Safari) that supports HTTPS to ensure high security. Connection via the web browser allows you to check live video or review recorded video from a remote location.

HVE1X

HVE4X

HVE8X

Market Opportunities

Encoders are a simple and cost-saving way to upgrade existing analog systems to include High Definition IP cameras and MAXPRO NVRs. By converting analog signals to digital, these encoders allow you to keep your original analog cameras. Installation costs can be further reduced by installing the encoder remotely from the NVR. Then only a network cable is required to bring video and events to the NVR.

Features

- H.264/MPEG4/MPEG2/ MJPEG encoding
- Dual streaming
- 12 V DC or Power over Ethernet (HVE1X and HVE4X)
- Local storage microSD (HVE1X and HVE4X) and Hard Drive (HVE8X)
- Embedded motion detection
- Embedded privacy zone

- Customizable text overlay
- Alarm input and relay output
- Transparent RS-232 port
- RS-485 PTZ control, multiple protocols
- Audio input + two-way audio support
- Exception and system logging
- Local user management
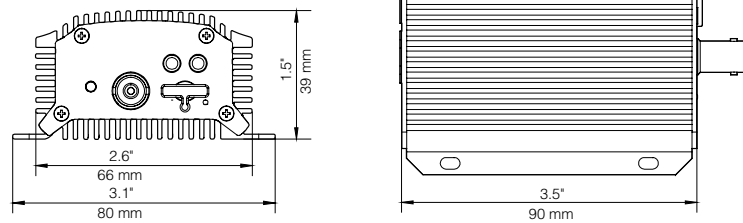- Embedded web browser, supporting IE, Firefox, Chrome, and Safari

HVE1/4/8 Encoder
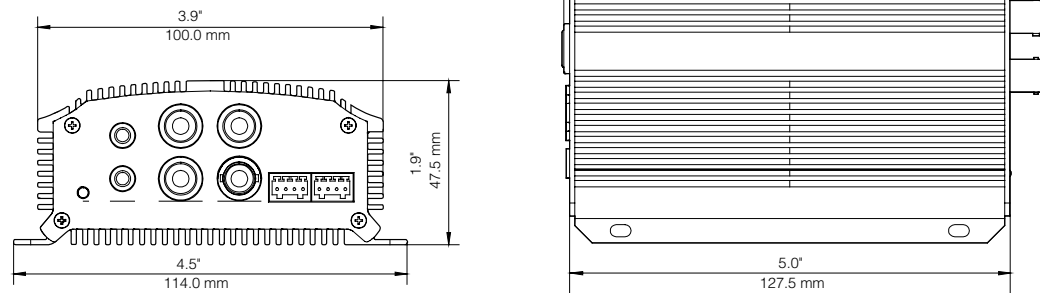
DIMENSIONS

HVE1X Dimensions

4.2"
106.5 mm

1.5"
39 mm

2.6"
66 mm

3.1"
80 mm

3.5"
90 mm

HVE4X Dimensions

5.5"
140.4 mm

3.9"
100.0 mm

1.9"
47.5 mm

4.5"
114.0 mm

5.0"
127.5 mm

HVE8X Dimensions (19" Rack mounting bracket not shown but included with HVE8X)

1.8"
44.5 mm

7.9"
200.8 mm

8.3"
211.5 mm

1.8"
44.5 mm

12.4"
315.0 mm
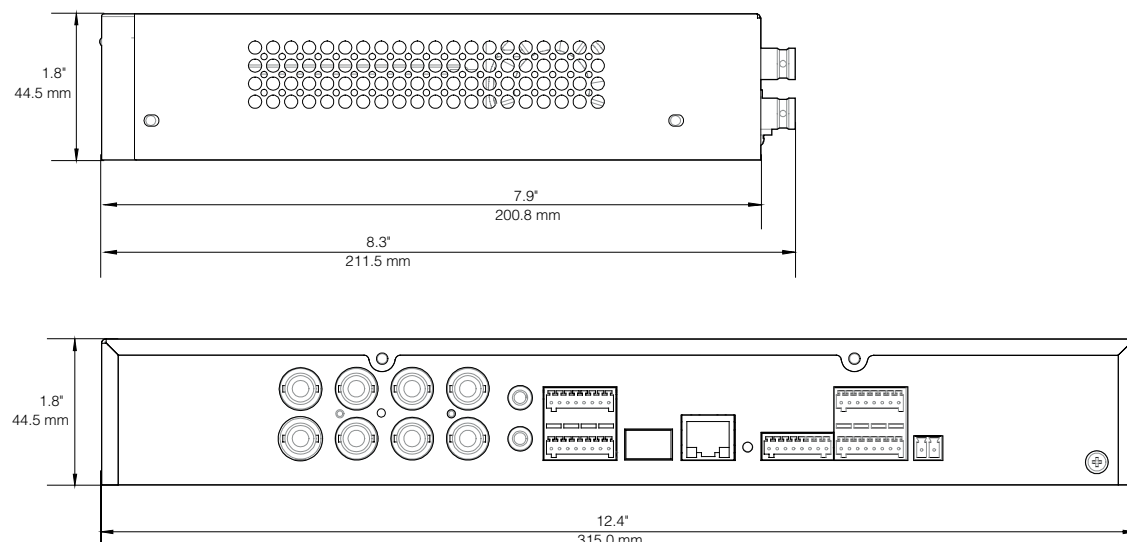
HVE1/4/8 Encoder

SPECIFICATIONS

Operational	HVE1X	HVE4X	HVE8X
Video Compression	H.264/MPEG4/MPEG2/MJPEG	H.264/MPEG4/MPEG2/MJPEG	H.264/MPEG4/MPEG2/MJPEG
Video Input	1 channel	4 channels	8 channels
Audio Compression	G.711u	G.711u	G.711u
Audio Input	1 channel	4 channels	8 channels
Two-way Audio Input	1 channel	1 channel	1 channel
Audio Output	1 channel	1 channel	1 channel
Recording Resolution	4CIF/2CIF/CIF/QCIF	4CIF/2CIF/CIF/QCIF	4CIF/2CIF/CIF/QCIF
Frame Rate	H.264/MPEG4/MPEG2 encoding: 25 fps (P)/30 fps (N); MJPEG encoding: 15 fps	H.264/MPEG4/MPEG2 encoding: 25 fps (P)/30 fps (N); MJPEG encoding: 15 fps	H.264/MPEG4/MPEG2 encoding: 25 fps (P)/30 fps (N); MJPEG encoding: 15 fps
Video Bit Rate	32 Kbps ~ 3072 Kbps, or user defined (Max. 8192 Mbps)	32 Kbps ~ 3072 Kbps, or user defined (Max. 8192 Mbps)	32 Kbps ~ 3072 Kbps, or user defined (Max. 8192 Mbps)
Audio Bit Rate	64 Kbps	64 Kbps	64 Kbps
Dual Stream	Supported	Supported	Supported
Stream Type	Video/Video + Audio	Video/Video + Audio	Video/Video + Audio
Data Storage Type	NAS, microSD	NAS, microSD	NAS, IPSAN, Local SATA Hard Drive
Data Storage Capacity	4 GB up to 32 GB, Class 6 and above microSD	16 GB up to 32 GB, Class 6 and above microSD	Up to 4 TB capacity for each disk
Network Protocols	IPv4/v6, HTTP, HTTPS, QoS layer3 DiffServ, FTP, SMTP, Bonjour, UPnP™, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP/RTCP, TCP, UDP, IGMP, ICMP, DHCP, ARP, SOCKSv4/v5, PSIA, ONVIF, HIKCGI, netFilter, HVEDDNS	IPv4/v6, HTTP, HTTPS, QoS layer3 DiffServ, FTP, SMTP, Bonjour, UPnP™, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP/RTCP, TCP, UDP, IGMP, ICMP, DHCP, ARP, SOCKSv4/v5, PSIA, ONVIF, HIKCGI, netFilter, HVEDDNS	IPv4/v6, HTTP, HTTPS, QoS layer3 DiffServ, FTP, SMTP, Bonjour, UPnP™, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP/RTCP, TCP, UDP, IGMP, ICMP, DHCP, ARP, SOCKSv4/v5, PSIA, ONVIF, HIKCGI, netFilter, HVEDDNS
Electrical	**HVE1X**	**HVE4X**	**HVE8X**
Power Supply	12 V DC/PoE	12 V DC/PoE	12 V DC only
Power Consumption	≤ 8 W	≤ 8 W	≤ 30 W
Mechanical	**HVE1X**	**HVE4X**	**HVE8X**
Dimensions (W×H×D)	3.1 x 1.5 x 3.5 inches (80 × 39 × 90 mm)	4.5 x 1.9 x 5.0 inches (114 × 48 × 128 mm)	12.4 x 1.8 x 7.9 inches (315 × 45 × 200 mm)
Weight	≤ 1.1 lbs (≤ 0.5 Kg)	≤ 2.2 lbs (≤ 1.0 Kg)	≤ 4.4 lbs (≤ 2.0 Kg)
Construction	Die-cast aluminum	Die-cast aluminum	Steel chassis
Connectors	**HVE1X**	**HVE4X**	**HVE8X**
Power	Screw terminal block	Screw terminal block	Screw terminal block
Video Input	BNC (1.0 Vp-p, 75 Ω)	BNC (1.0 Vp-p, 75 Ω)	BNC (1.0 Vp-p, 75 Ω)
Audio Input	3.5 mm interface (2.0 Vp-p, 1 kΩ) (LINE IN)	Spring terminal block (20-28AWG) (2.0 Vp-p, 1 kΩ) (LINE IN)	Spring terminal block (20-28AWG) (2.0 Vp-p, 1 kΩ) (LINE IN)
Audio Output	3.5 mm interface (Linear, 600 Ω)	3.5 mm interface (Linear, 600 Ω)	3.5 mm interface (Linear, 600 Ω)
Two-Way Audio Input	3.5 mm interface (2.0 Vp-p, 1 kΩ) (LINE IN)	3.5 mm interface (2.0 Vp-p, 1 kΩ) (LINE IN)	3.5 mm interface (2.0 Vp-p, 1 kΩ) (LINE IN)
Network Interface	1 RJ-45 10 M/100 Mbps adaptive Ethernet interface (PoE)	1 RJ-45 10 M/100 Mbps adaptive Ethernet interface (PoE)	1 RJ-45 10/100/1000 Mbps adaptive Ethernet interface
Serial Interface	1 half-duplex RS-485 interface Spring terminal block (20-28AWG)	1 half-duplex RS-485 interface, 1 RS-232 interface Spring terminal block (20-28AWG)	1 half-duplex RS-485 interface, 1 RS-232 interface Spring terminal block (20-28AWG)
Alarm In	1 Spring terminal block (20-28AWG)	4 Spring terminal blocks (20-28AWG)	8 Spring terminal blocks (20-28AWG)
Alarm Out	1 Spring terminal block (20-28AWG)	2 Spring terminal blocks (20-28AWG)	4 Spring terminal blocks (20-28AWG)
Data Storage	1 microSD interface	1 microSD interface	1 SATA interface

Environmental		Regulatory	
Operating Temperature	14°F to 131°F (–10°C to 55°C)	Emissions	FCC, EN 55022
Storage Temperature	-4°F to 149°F (-20°C to 65°C)	Immunity	EN 50130-4
Relative Humidity	10% to 90%, non-condensing	Safety	EN 60950-1 North America UL listed to UL/CSA 60950-1

Included Accessories			
Power Supply	AC Plug Adaptor	Rack mount brackets for HVE8X	
	CD with IP Utility and Documentation	SATA Cable and HD power cord for HVE8X	

Compatibility			
	MAXPRO NVR 2.5 SP1 and greater	ONVIF Profile S	

HVE1/4/8 Encoder

ORDERING

Ordering	
HVE1X	1-Channel, Audio/Video Encoder, PAL
HVE4X	4-Channel, Audio/Video Encoder, PAL
HVE8X	8-Channel, Audio/Video Encoder, PAL
HVETRAY	Rack tray for HVE1/4 supports 3 per tray

Find out more:
www.honeywell.com/security/uk

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