16-/32-/64-Channel 4K ENVRs

HEN16304/HEN32304/HEN64304

Introducing Honeywell's Focus 4K Embedded NVRs, our newest affordable, fully featured NVRs offering Ultra HD 4K video resolution. Choose a 16-, 32-, or 64-channel NVR, with multiple hard drive options plus the ability to expand to up to 64 TB of internal storage, for an ideal and flexible solution to fit your surveillance situation.

Fully-featured NVRs

- High decoding capability for Ultra 4K HD viewing and recording
- View 4/8/16 channels simultaneously with synchronized real-time playback on your monitor (depending on your model)
- Up to 12 MP (4K) resolution live view, preview and playback
- Up to 16 channels at 1080p, or 8 channels at 4 MP, or 4 channels at 8 MP H.265/H.264 decoding
- De-warp fisheye camera video in local and web user interface for 360 degree situational awareness

Easy to Use

- The Quick wizard and PoE support (for up to 16 channels) make setup fast and easy
- Quick physical installation with the help of a simple NVR design and easy-to-understand quick installation guides
- Simple remote configuration and firmware updating through the Honeywell Viewer web client and the Honeywell Config tool

Market Opportunities

The flexible storage options and high recording and networking performance of the Focus 4K Embedded NVRs make these NVRs perfect for a wide range of security applications.

Convenient, Flexible Storage Options

- Internal storage supports 8 HDDs expandable up to 64 TB (8 TB each)
- Store video clips and snapshots to external storage, such as the client's PC, through the Internet connection
- RAID 0/1/5/6/10 external storage compatibility supports a wide range of high capacity storage options
- Store video clips and snapshots to external network storage servers, such as an FTP site
- Store video clips and snapshots to a USB memory device
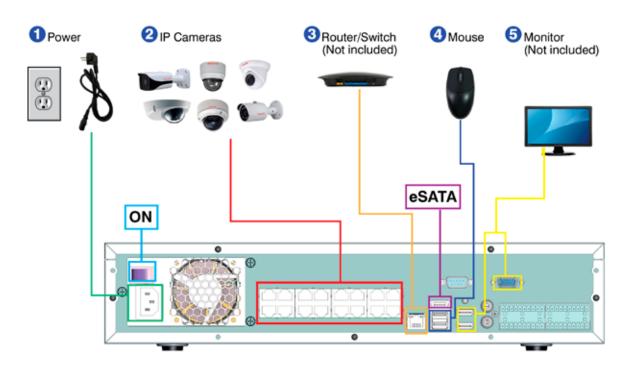
Dynamic, Accessible Monitoring

- Monitor from anywhere using the mobile apps for both Apple® and Android™ devices (smartphones, tablet computers, and laptops)
- Protect the NVR's video and network setup with password-protected access
- Conceal up to 4 areas of a scene from viewing and recording
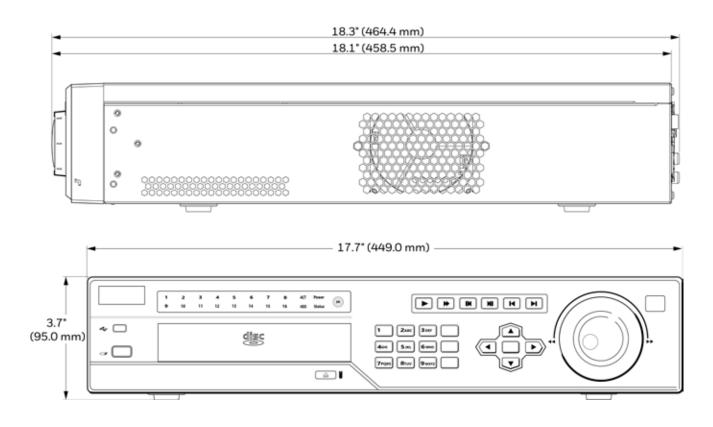
FEATURES AND BENEFITS

- H.265/H.264/ MJPEG/MPEG4 codec decoding
- 2 HDMI/VGA simultaneous video outputs (the second HDMI output is programmable)

- Supports up to 16 alarm input channels and 6 alarm relay output channels
- Supports sending notifications through email, FTP, and/or HTTP

- UL listed
- Supports recording a video clip of events for distribution
- Supports uploading still images at the time of the event through email and/or FTP

- Configurable to automatically detect and respond to motion in the scene, alarm inputs, and network failure or tampering
- Maximum incoming and outgoing bandwidth of 320 Mbps

- Supports visual or auditory notifications (a flashing light, bell, or siren)
- Supports fisheye video de-warping in local and web user interface

16-/32-/64-Channel 4K ENVRs Technical Specifications

SYSTEM DIAGRAM

1 Power   **2** IP Cameras   **3** Router/Switch (Not included)   **4** Mouse   **5** Monitor (Not included)

ON

eSATA

DIMENSIONS

18.3" (464.4 mm)

18.1" (458.5 mm)

17.7" (449.0 mm)

3.7" (95.0 mm)

16-/32-/64-Channel 4K ENVRs Technical Specifications

SYSTEM	
MAIN PROCESSOR	Quad-core embedded processor
OPERATING SYSTEM	Embedded LINUX
VIDEO	
INPUTS	**HEN16304**: 16 Channels IP **HEN32304**: 32 Channels IP **HEN64304**: 64 Channels IP
AUDIO	
AUDIO INPUT/OUTPUT	1 Channel Input/1 Channel Output, RCA
TWO-WAY COMMUNICATION	Supported
DISPLAY	
INTERFACE	2 HDMI (1 HDMI up to 3840 × 2160); 1 VGA
RESOLUTION	3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720; 1024 × 768
DISPLAY SPLIT	**HEN16304**: 1/4/8/9/16 **HEN32304**: 1/4/8/9/16/25/36 **HEN64304**: 1/4/8/9/16/25/36/64
OSD	Camera title; Time; Video loss; Camera lock; Motion detection; Recording
PROGRAMMABLE VIDEO OUTPUT	2nd HDMI output
FISHEYE VIDEO DE-WARPING	Supported in local and web user interface
RECORDING	
COMPRESSION	H.265/H.264/MJPEG/MPEG4
RESOLUTION	**12 MP** (4000 × 3000); **8 MP** (3840 × 2160); **6 MP** (3072 × 2048); **5 MP** (2560 × 1920); **4 MP** (2560 × 1440); **3 MP** (2048 × 1520); **1080p** (1920 × 1080); **720p** (1280 × 720); **D1** (704 × 576 / 704 × 480); **CIF** (352 × 288 / 352 × 240)
FRAME RATE	1–15 fps (12 MP and 8 MP); 1–25/30 fps (rest of the resolutions)
RECORD BIT RATE	320 Mbps
BIT RATE[1]	16 kbps ~ 20 Mbps, per channel
RECORDING MODE	Schedule (Regular/Continuous, Motion Detection, Alarm); Manual; Stop
RECORDING INTERVAL	1 to 120 minutes (default 60 min)
PRE-EVENT RECORDING INTERVAL	1 to 30 seconds
POST-EVENT RECORDING INTERVAL	10 to 300 seconds
VIDEO DETECTION AND ALARMS	
TRIGGER EVENTS	Recording; PTZ; Tour; Alarm; Video Push; Email; FTP; Snapshot; Buzzer
VIDEO DETECTION	Motion Detection—MD Zones: 396 (22 × 18); Video Loss; Camera Blank
ALARM INPUT	16 Channels
RELAY OUTPUT	6 Channels

PLAYBACK AND BACKUP	
SYNC PLAYBACK	1/4/8/16 (maximum 4-ch @ 8MP, 8-ch @ 4MP, or 16-ch @ 1080p simulateous playback)
SEARCH MODE	Time/Date; Alarm; Motion Detection (MD); Exact Search (accurate to a second); Smart Search
PLAYBACK FUNCTION	Play; Pause; Stop; Rewind; Fast play; Slow play; Next File; Previous File; Next Camera; Previous Camera; Full Screen; Repeat; Shuffle; Backup selection; Digital Zoom
BACKUP MODE COMPATIBILITY	USB Device; Network; Internal SATA burner; eSATA Device
NETWORK	
ETHERNET	1 RJ-45 port (10/100/1000 Mbps)
POE	16 ports (IEEE802.3af/at)
SUPPORTED PROTOCOLS[2]	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search, P2P
MAXIMUM NUMBER OF USERS	128 users
NETWORK THROUGHPUT	Input 320 Mbps; Output 320 Mbps
SMART PHONE COMPATIBILITY	iPhone; iPad; Android
STORAGE	
INTERNAL HDD	8 SATA ports, up to 64 TB
HDD MODE	RAID 0/1/5/6/10
EXTERNAL HDD	1 eSATA port
AUXILIARY INTERFACE	
USB PORTS	4 (2 rear USB3.0; 2 front USB2.0)
RS232	1 port (for PC communications and keyboard)
ELECTRICAL	
POWER SUPPLY	Single, 100~240 VAC, 50/60 Hz
POWER CONSUMPTION	**NVRs**: 17.5 W max (without HDD) **PoE**: 25.5 W for a single port (150 W total)
ENVIRONMENTAL	
OPERATING TEMPERATURE	14°F to 131°F (−10°C to 55°C)
RELATIVE HUMIDITY	10% to 90%, non-condensing
STORAGE TEMPERATURE	−4°F to 158°F (−20°C to 70°C), 0% to 90% relative humidity
PHYSICAL	
DIMENSIONS	17.3" × 17.9" × 3.7" (440 mm × 454 mm × 95 mm)
WEIGHT (WITHOUT HDD)	15.4 lb. (7.0 kg)
REGULATORY	
EMISSIONS	FCC Part 15B, EN55032: 2012 +AC: 2013, EN61000-3-2: 2014, EN61000-3-3: 2013
IMMUNITY	EN50130-4: 2011+A1: 2014, EN55024: 2010+A1: 2015
SAFETY	EU: EN60950-1 North America UL listed to UL/CSA 60950-1
ROHS	EN50581: 2012

1. Actual bitrate is scene and motion dependent with H.264 stream.

2. Some development might be required in specific user cases to support some of these protocols in the field, as naturally protocols will mature over time.

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SYSTEM INTEGRATION

ONVIF support and open API software integration. Refer to www.onvif.org for the ONVIF specification and the Honeywell Open Technology Alliance website (http://www.security.honeywell.com/hota/) to learn more about our open and integrated solutions.

ORDERING

HEN16304	NVR, 16-Channel, H.265, 4K 12 MP, 8 SATA, 16 PoE, No HDD, RAID 5&6
HEN32304	NVR, 32-Channel, H.265, 4K 12 MP, 8 SATA, 16 PoE, No HDD, RAID 5&6
HEN64304	NVR, 64-Channel, H.265, 4K 12 MP, 8 SATA, 16 PoE, No HDD, RAID 5&6

For more information

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Honeywell reserves the right, without notification, to make changes in product design or specifications.

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