Focus 4K Embedded NVRs

8-/16-/32-Channel 4K ENVRs

HEN08104/HEN16104/HEN32104

Introducing Honeywell's Focus 4K Embedded NVRs, our newest affordable, fully featured NVRs offering Ultra HD 4K video resolution. Choose an 8-, 16-, or 32-channel NVR, with multiple hard drive options plus the ability to expand to up to 16 tB of internal storage, for an ideal and flexible solution to fit your surveillance situation.

HD

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 H.265/H.264 decoding
- De-warp fisheye camera video in local and web user interface for 360 degree situational awareness

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

Convenient, Flexible Storage Options

- Internal storage supports 2 HDDs expandable up to 16 tB (8 tB each)
- Store video clips and snapshots to external storage, such as the client's PC, through the internet connection
- 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

Easy to Use

- The Quick wizard and Poe support (for up to 8/16 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.

FEATURES AND BENEFITS

• H.265/H.264/ MJPEG/MPEG4 codec decoding	• Supports up to 4 alarm input channels and 2 alarm relay output channels	• Supports recording a video clip of events for distribution	• Configurable to automatically detect and respond to motion in the scene, alarm inputs, and network failure or tampering	• Supports visual or auditory notifications (a flashing light, bell, or siren)
• HDMI/VGA simultaneous video output	• Supports sending notifications through email, FTP, and/or HTTP	• Supports uploading still images at the time of the event through email and/or FTP	• Maximum incoming bandwidth of 320 Mbps	• Supports fisheye video de-warping in local and web user interface
• UL listed				

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SYSTEM DIAGRAM

1 Power

2 IP Cameras

Monitor
(Not included)

Mouse

5 Router/Switch
(Not included)

ON

DIMENSIONS

12.9" (328.3 mm)
12.7" (321.8 mm)

14.8" (375.0 mm)

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2.1"
(53.0 mm)
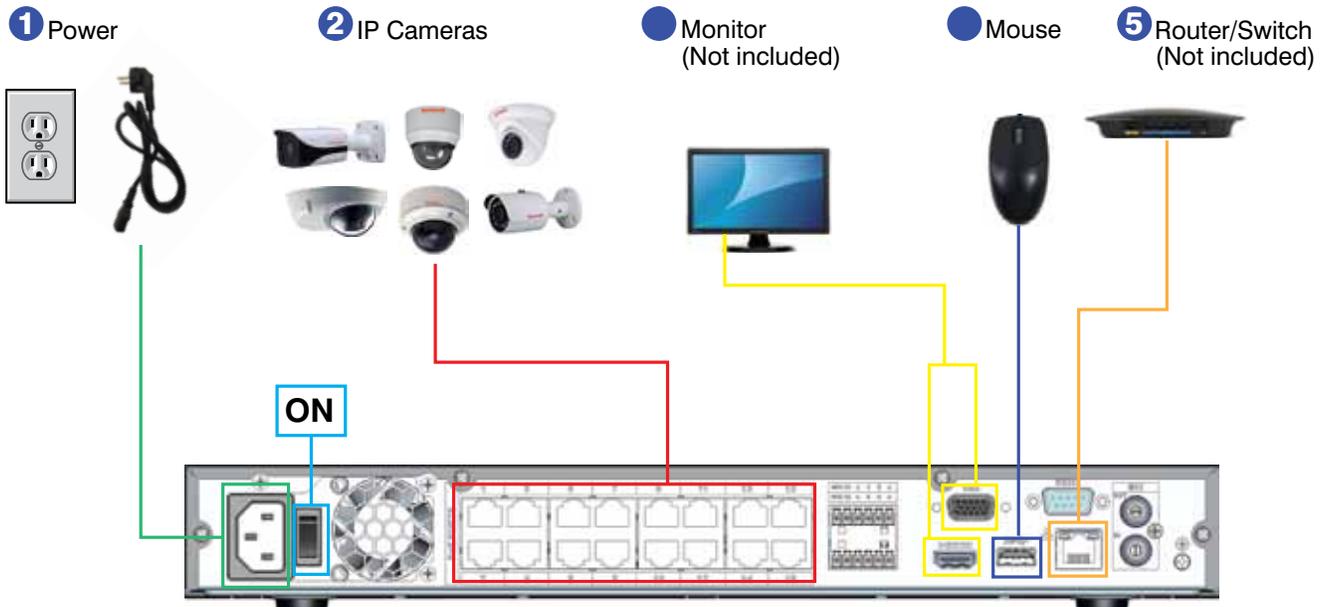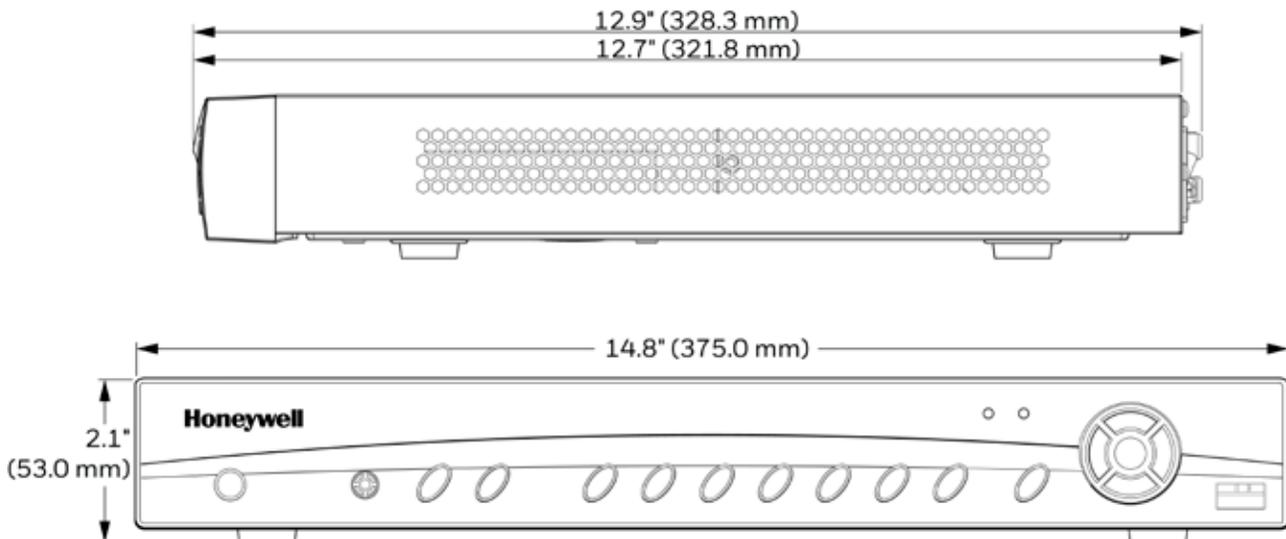
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FEATURES AND BENEFITS

SYSTEM

MAIN PROCESSOR	Quad-core embedded processor
OPERATING SYSTEM	Embedded LINUX

VIDEO

INPUTS	HEN08104: 8 Channels IP HEN16104: 16 Channels IP HEN32104: 32 Channels IP

AUDIO

AUDIO INPUT/OUTPUT	1 Channel Input/1 Channel Output, RCA
TWO-WAY COMMUNICATION	Supported

DISPLAY

INTERFACE	1 HDMI (up to 3840 × 2160); 1 VGA
RESOLUTION	3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720; 1024 × 768
DISPLAY SPLIT	HEN08104: 1/4/8/9 HEN16104: 1/4/8/9/16 HEN32104: 1/4/8/9/16/25/36
OSD	Camera title; Time; Video loss; Camera lock; Motion detection; Recording
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	4 Channels
RELAY OUTPUT	2 Channels

STORAGE

INTERNALHDD	2 SATA ports, up to 16 TB

PLAYBACK AND BACKUP

SYNC PLAYBACK	1/4/8/16 (maximum 4-ch @ 8 MP, 8-ch @ 4 MP, or 16-ch @ 1080p simultaneous 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

NETWORK

ETHERNET	1 RJ-45 port (10/100/1000 Mbps)
POE	**HEN08104:** 8 ports (802.3af/at) **HEN16104:** 16 ports (802.3af/at) **HEN32104:** 16 ports (802.3af/at)
SMART PHONE COMPATIBILITY	iPhone; iPad; Android
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

AUXILIARY INTERFACE

USB PORTS	2 (1 rear USB3.0; 1 front USB2.0)
RS232	1 port (for PC communications and keyboard)

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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	14.8" × 12.9" × 2.1" (375 mm × 327 mm × 53 mm)
WEIGHT (WITHOUT HDD)	6.0 lb. (2.7 kg)

ELECTRICAL	
POWER SUPPLY	Single, 100~240 VAC, 50/60 Hz
POWER CONSUMPTION	HEN08104: 15.2 W max (no HDD) HEN16104: 14.5 W max (no HDD) HEN32104: 14.5 W max (no HDD) PoE: 25.5 W for a single port (130 W total)

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

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

HEN08104	NVR, 8-Channel, H.265, 4K 12 MP, 2 SATA, 8 PoE, No HDD
HEN16104	NVR, 16-Channel, H.265, 4K 12 MP, 2 SATA, 16 PoE, No HDD
HEN32104	NVR, 32-Channel, H.265, 4K 12 MP, 2 SATA, 16 PoE, No HDD

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