

# PERFORMANCE SERIES EMBEDDED NVRs

## 4-/8-/16-Channel ENVRs

### HEN04103/HEN 04123/HEN08103/HEN16103

Introducing Honeywell's Performance Series Embedded NVRs, our newest affordable, fully-featured NVRs offer Ultra 4k HD video resolution. Choose between a 4-, 8-, or 16-channel NVR, with multiple hard drive options and up to 12 TB of internal storage, for an ideal and flexible solution to fit your surveillance needs.



### 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 8 MP (4K) resolution live view, preview and playback
- Up to 8 channels at 1080p H.265/H.264 decoding

### Dynamic, Accessible Monitoring

- Mobile apps provide anytime, anywhere access 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 12 TB (6 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

### FEATURES AND BENEFITS

- H.265/H.264 codec decoding
- Supports up to 4 alarm input channels and 2 alarm relay output channels
- Supports recording a video clip of events for distribution
- Supports uploading still images at the time of the event through email and/or FTP
- HDMI/ VGA simultaneous video output
- Supports sending notifications through email, FTP, and/or HTTP
- Maximum incoming bandwidth of 200 Mbps
- UL listed

### Easy to Use

- The Quick wizard and PoE support (up to 4/8/16 channels) enable a fast and efficient set up
- Quick installations utilizing an intuitive NVR design and easy-to-understand quick installation guides
- Simple remote configuration and firmware update through the Honeywell Viewer web client and the Honeywell Config tool

### Market Opportunities

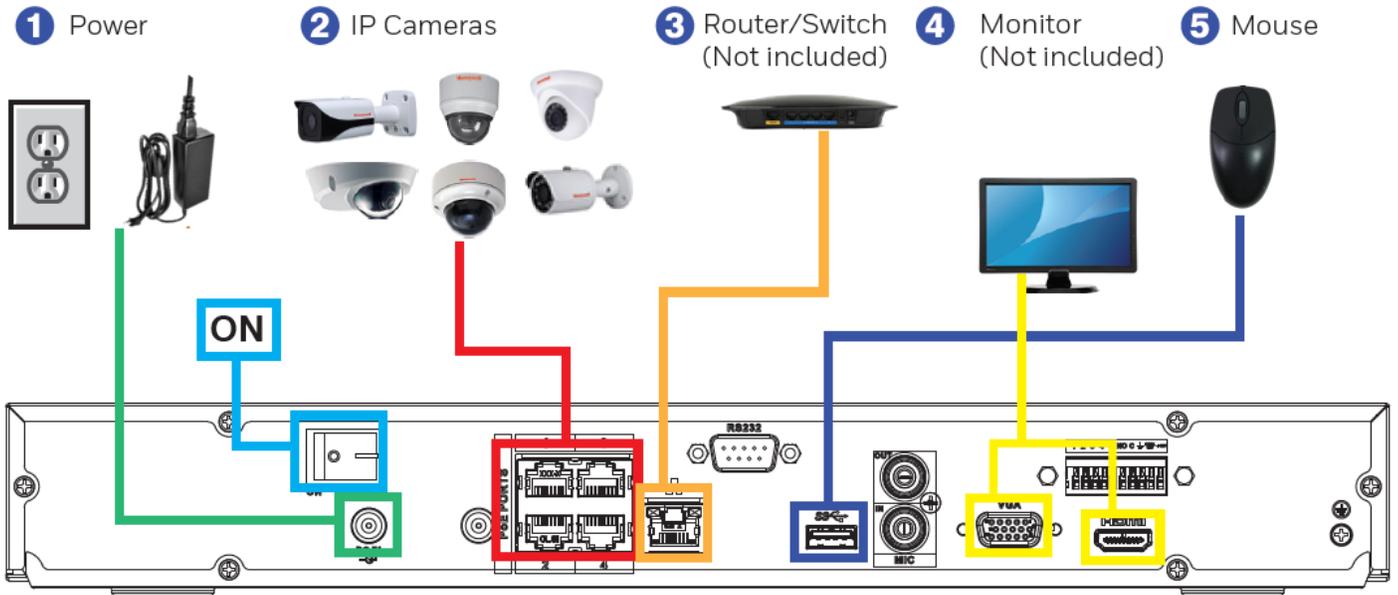
The flexible storage options and high recording and networking performance of the Focus 4K Embedded NVRs make these NVRs perfect for a wide range of security applications.

# 4-/8-/16-Channel ENVRs

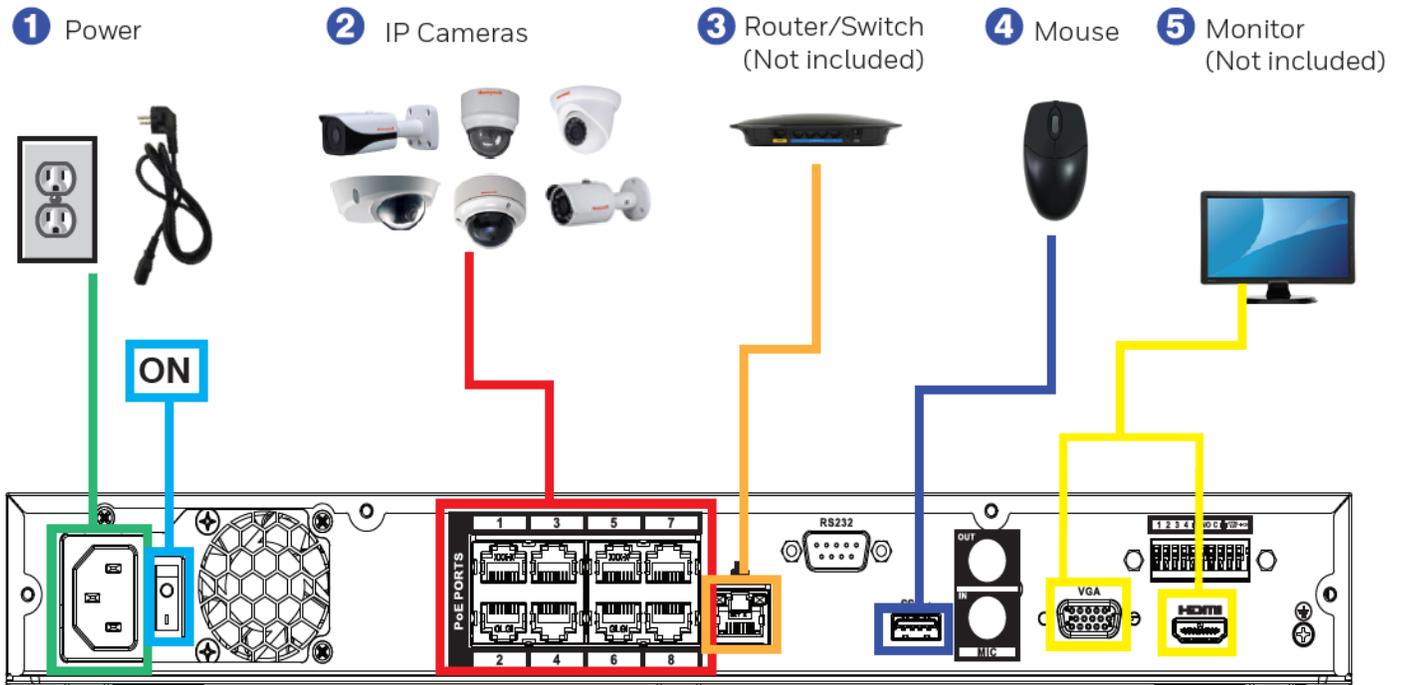
## Performance Series Embedded NVRs

### SYSTEM DIAGRAM

HEN04103



HEN08103



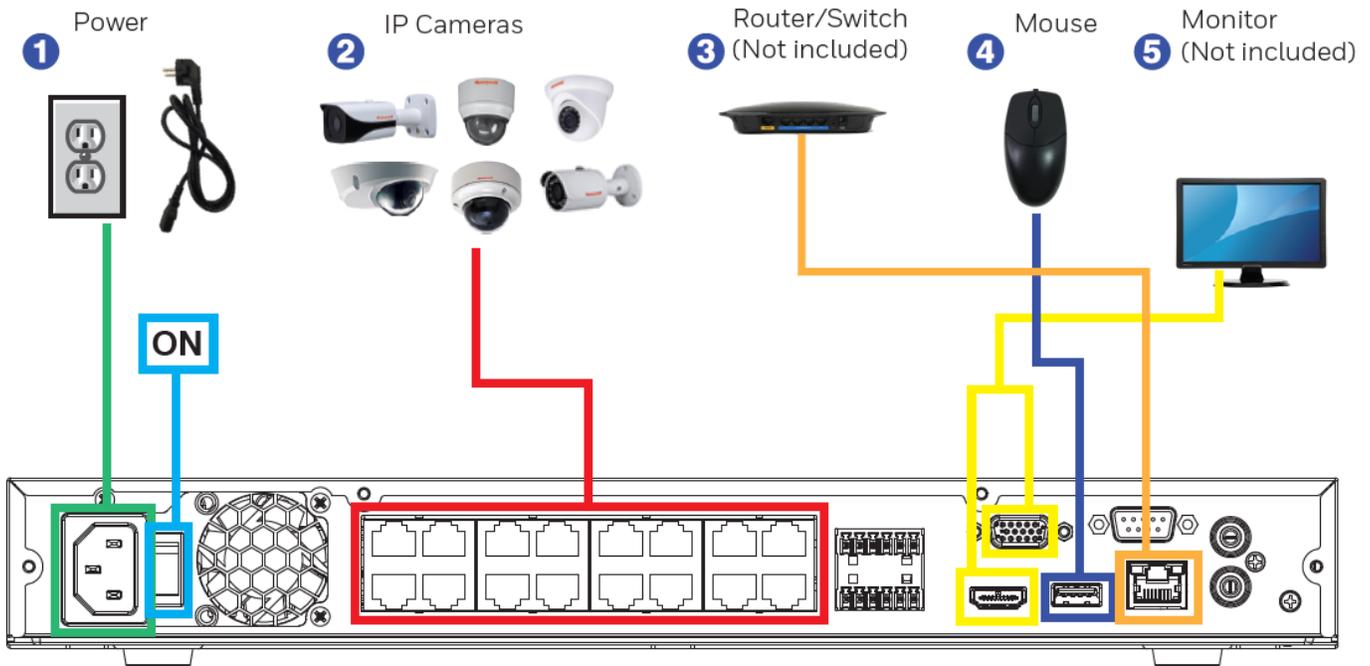
# 4-/8-/16-Channel ENVRs

## Performance Series Embedded NVRs

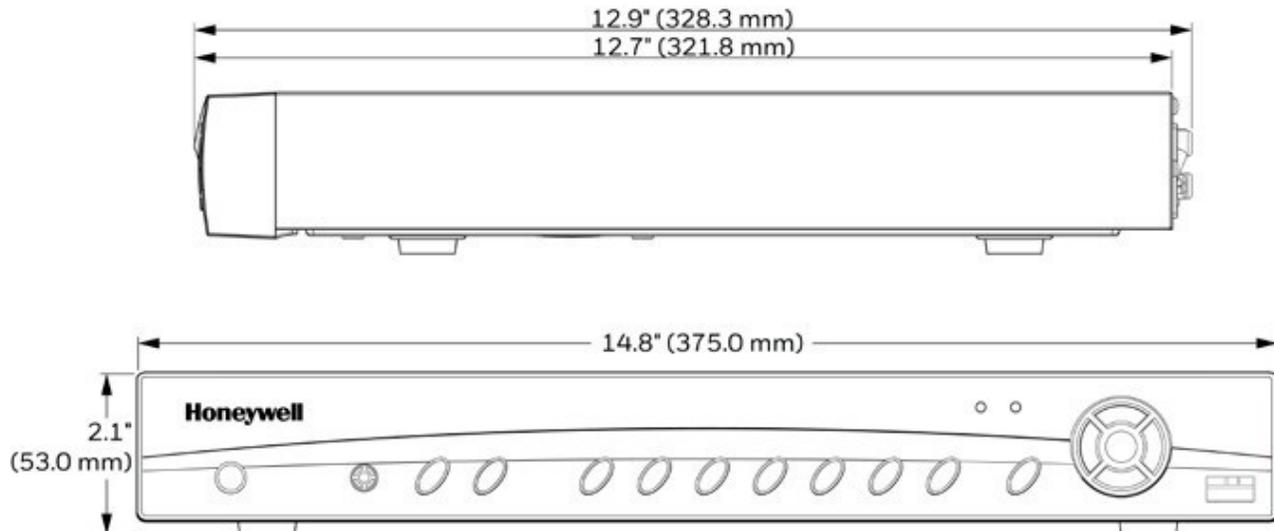
### SYSTEM DIAGRAM

HEN16103

\* The \* = hard drive capacity in TB.



### DIMENSIONS



**Note:** The dimensions of HEN08103/HEN16103 are shown here. For the dimensions of HEN04103, see technical specifications on the next page.

# 4-/8-/16-Channel ENVRs

## Performance Series Embedded NVRs

### Technical Specifications

SYSTEM	
MAIN PROCESSOR	Quad-core embedded processor
OPERATING SYSTEM	Embedded LINUX
VIDEO	
INPUTS	HEN04103: 4 Channels IP HEN08103: 8 Channels IP HEN16103: 16 Channels IP
AUDIO	
AUDIO INPUT/OUTPUT	1 Channel Input/1 Channel Output, RCA
TWO-WAY COMMUNICATION	Supported
DISPLAY	
INTERFACE	1 HDMI, 1 VGA
RESOLUTION	3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720;
DISPLAY SPLIT	<b>HEN04103:</b> 1/4 <b>HEN08103:</b> 1/4/8/9 <b>HEN16103:</b> 1/4/8/9/16
OSD	Camera title; Time; Video loss; Camera lock; Motion detection; Recording
RECORDING	
COMPRESSION	H.265/H.264
RESOLUTION	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 (8 MP); 1–25/30 fps (rest of the resolutions) for each channel
RECORD BIT RATE	200 Mbps
BIT RATE <sup>1</sup>	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; Screen Tips
VIDEO DETECTION	Motion Detection—MD Zones: 396 (22 × 18); Video Loss; Tampering
ALARM INPUT	4 Channels
RELAY OUTPUT	2 Channels
STORAGE	
INTERNAL HDD	2 SATA III ports, up to 12 TB
PLAYBACK AND BACKUP	
SYNC PLAYBACK	4-channel NVRs: 1/4 8-channel NVRs: 1/4/8 16-channel NVRs: 1/4/8/16
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
Decoding	2-ch in 8 MP@15fps or 4-ch in 1080P@30fps
NETWORK	
ETHERNET	1 RJ-45 port (10/100/1000 Mbps)
POE	HEN04103: 4 ports (802.3af/at) HEN08103: 8 ports (802.3af/at) HEN16103: 16 ports (802.3af/at)
SUPPORTED PROTOCOLS <sup>2</sup>	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	200 Mbps
SMART PHONE COMPATIBILITY	iPhone; iPad; Android
AUXILIARY INTERFACE	
USB PORTS	2 (1 USB3.0; 1 USB2.0)
RS232	1 port (for PC communications)

# 4-/8-/16-Channel ENVRs

## Performance Series Embedded NVRs

ENVIRONMENTAL	
OPERATING TEMPERATURE	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
RELATIVE HUMIDITY	10% to 90%, non-condensing
STORAGE TEMPERATURE	-4°F to 158°F (-20°C to 70°C),

PHYSICAL	
DIMENSIONS	<b>HEN04103:</b> 1U, 375mm×281.5mm×56mm (14.8" x 11.1" x 2.2") <b>HEN08103/HEN16103:</b> 1U, 375mm×327.5mm×53mm (14.8" x 12.9" x 2.1")
WEIGHT (WITHOUT HDD)	<b>HEN04103:</b> 1.6kg (3.5 lb) (without HDD) <b>HEN08103:</b> 2.6kg (5.7 lb) (without HDD) <b>HEN16103:</b> 2.7kg (6.0 lb) (without HDD)

ELECTRICAL	
POWER SUPPLY	HEN041*3: DC48V/2A HEN081*3/HEN161*3: AC100V ~ 240V, 50 ~ 60 Hz
POWER CONSUMPTION	HEN04103: <9W (Without HDD) HEN08103: <9.6W (Without HDD) HEN16103: <13.2W (Without HDD)
POE	HEN04103: Max 25.5w for single port, 50w in total HEN08103: Max 25.5w for single port, 80w in total HEN16103: Max 25.5w for single port, 130w in total

REGULATORY	
EMISSIONS	+AC: 2013 HEN08103/HEN16103: FCC Part 15B, EN55032: 2012 +AC: 2013, EN61000-3-2: 2014, EN61000-3-3: 2013
IMMUNITY	EN50130-4: 2011
PLAYBACK FUNCTION	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 protocols will mature over time.

### ORDERING

HEN04103	H.265 4CH NVR, 4 POE Ports, 4k, output HDMI/VGA 4k, Ethernet Gigabit, 4 inputs/2 outputs
HEN08103	H.265 8CH NVR, 8 POE Ports, 4k, output HDMI/VGA 4k, Ethernet Gigabit, 4 inputs/2 outputs
HEN16103	H.265 16CH NVR, 16 POE Ports, 4k, output HDMI/VGA 4k, Ethernet Gigabit, 4 inputs/2 outputs

For more information,  
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 HEN16103  
 Performance Series Embedded  
 NVRs**

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