

## Performance Series IP NVRs

### 4, 8 & 16 Channel PoE Embedded NVRs

Introducing Honeywell's Performance Series PoE Embedded NVRs, our newest affordable, fully featured NVRs. Choose a 4-, 8- or 16-channel NVR, with the ability to expand to up to 12 TB\* of internal storage, for an ideal and flexible solution to fit your surveillance situation.



**HD**

#### Fully-featured NVRs

- High decoding capability for full HD viewing and recording.
- View up to 16 channels simultaneously on your monitor (depending on your model).
- Up to eight channels live view and play back at full frame rate 1080p resolution.
- Up to 16 channels recording at full frame rate 1080p, 3MP, 4MP or 5MP resolution at maximum 8Mbps per channel.

#### Easy to Use

- The Quick wizard and full PoE support 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.

#### Convenient, Flexible Storage Options

- Internal storage supports two 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 an external network storage server 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).
- Password-protected access to the NVR's video and network setup.

#### Privacy Masking

- Conceal up to 4 areas of a scene from viewing and recording.

#### Market Opportunities

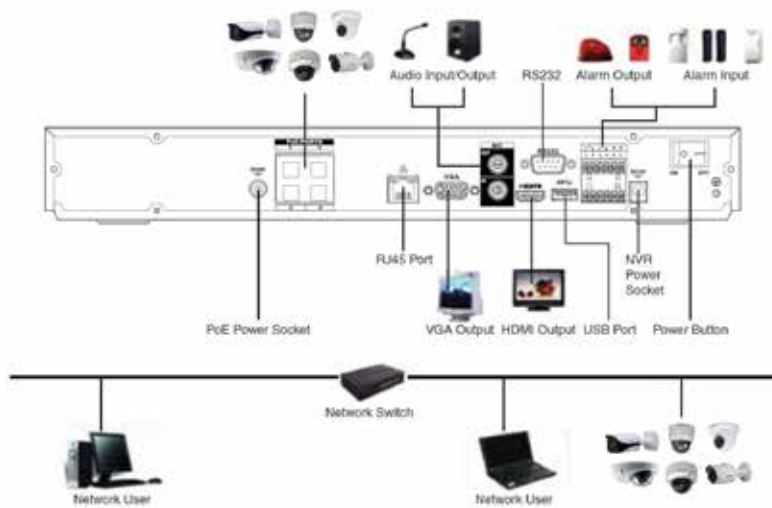
The flexible storage options of the Performance Series IP Embedded NVRs make these NVRs perfect for a wide range of security applications.

## FEATURES & BENEFITS

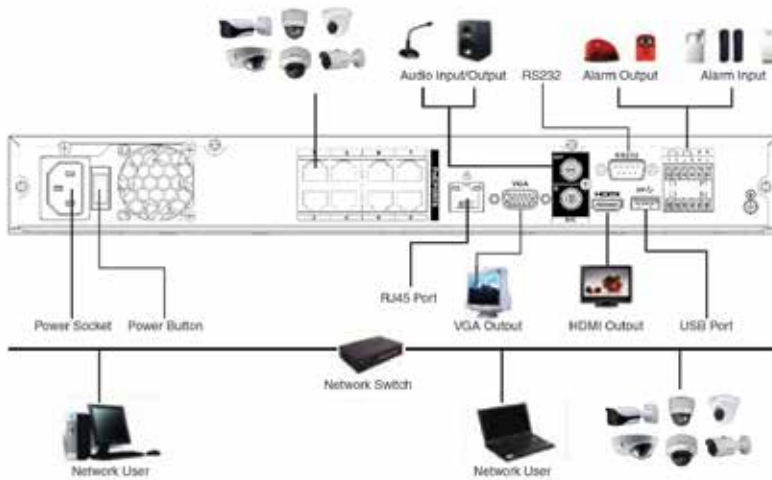
- H.264/MJPEG dual codec decoding
  - HDMI/VGA simultaneous video output
  - Supports up to 4 alarm input channels and 2 alarm relay output channels (model dependent)
  - UL listed
  - Configurable to automatically detect and respond to motion in the scene, alarm inputs, and network failure or tampering.
  - Supports sending notifications through email, FTP and/or HTTP
  - Supports uploading still images at the time of the event through email and/or FTP
  - Supports recording a video clip of events for distribution
  - Supports visual or auditory notifications (a flashing light, a bell, or a siren)
- \*See User Guide for compatible HDD listings

# Performance Series IP NVRs

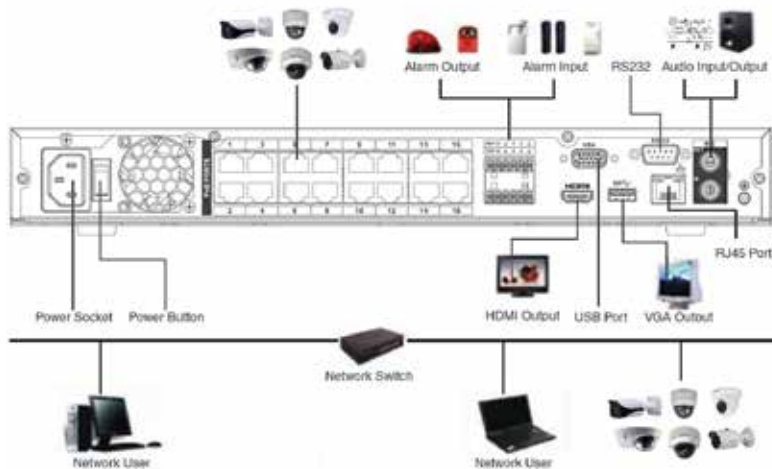
## 4-channel NVRs



## 8-channel NVRs



## 16-channel NVRs



# Performance Series IP NVRs Technical Specifications

SYSTEM	
MAIN PROCESSOR	Dual-core embedded processor
OPERATING SYSTEM	Embedded LINUX
VIDEO	
IP CAMERA INPUTS	4/8/16 channels
BIDIRECTIONAL AUDIO	1 channel input; 1 channel output; RCA
DISPLAY	
INTERFACE	1 HDMI; 1 VGA
RESOLUTION	1920 x 1080; 1280 x 1024; 1280 x 720; 1024 x 768
DISPLAY SPLIT	<b>4-channel NVRs:</b> 1/4 <b>8-channel NVRs:</b> 1/4/8 <b>16-channel NVRs:</b> 1/4/8/9/16
OSD	Camera title; Time; Video loss; Camera lock; Motion detection; Recording
RECORDING	
COMPRESSION	H.264 / MJPEG
RESOLUTION	<b>5MP</b> (2560 x 1920); <b>4MP</b> (2688 x 1520 and 2560 x 1440); <b>3MP</b> (2304 x 1296 and 2048 x 1536); <b>1080p</b> (1920 x 1080); <b>720p</b> (1280 x 720); <b>D1</b> (704 x 480); <b>SXGA</b> (800 x 600); <b>1.3MP</b> (1280 x 1024)
RECORDING RATE	<b>4-channel NVRs:</b> 100/120 fps @ 1080p; <b>8-channel NVRs:</b> 200/240 fps @ 1080p; <b>16-channel NVRs:</b> 400/480 fps @ 1080p
BIT RATE*	48 to 8192 Kbps
RECORDING MODE	Manual; Schedule (Regular [Continuous], Motion Detection, Alarm, Motion Detection+Alarm); Stop
RECORDING INTERVAL	1 to 120 minutes (default: 60 minutes); Pre-recording: 1 to 30 seconds.
VIDEO DETECTION AND ALARMS	
TRIGGER EVENTS	Recording; Tour; Alarm; Email; FTP; Buzzer; Screen Tips
VIDEO DETECTION	Motion Detection; Motion Detection Zones (396: 22 x 18); Video Loss and Camera Blank; Privacy Masking
ALARM INPUT	4 channels
RELAY OUTPUT	2 channels
PLAYBACK AND BACKUP	
SYNC PLAYBACK	<b>4-channel NVRs:</b> 1/4 <b>8-channel NVRs:</b> 1/4/8 <b>16-channel NVRs:</b> 1/4/8/16
SEARCH MODE	Time/Date; Alarm; Motion Detection; Exact Search (accurate to a second)
PLAYBACK FUNCTION	Play; Pause; Stop; Rewind; Fast play; Slow play; Full Screen; Backup
BACKUP MODE	USB Device; Network
COMPATIBILITY	

NETWORK	
OPERATING SYSTEM	Windows® XP; Windows Vista; Windows 7
CPU REQUIREMENTS	Pentium M 2.16 GHz or Intel Core 2 Duo 2 GHz
SYSTEM MEMORY	At least 2 GB
NETWORK CARD	RJ-45 (10/100 Base-T)
WEB BROWSER	Microsoft Internet Explorer 6.0 or later; Mozilla Firefox®
SUPPORTED PROTOCOLS**	HTTP; TCP/IP; IPv4/IPv6; UPnP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP filter; PPPoE; DDNS; FTP; Alarm server; IP search
MAXIMUM NUMBER OF USERS	20 users
SMART PHONE COMPATIBILITY	iOS; Android™
STORAGE	
INTERNAL STORAGE	2 SATA ports; up to 12 TB; RAID (redundancy)
CONNECTORS	
ETHERNET	1 x RJ-45 port (10/100/1000 Mbps)
POE	<b>4-channel NVRs:</b> 4 ports (IEEE802.3at/af) <b>8-channel NVRs:</b> 8 ports (IEEE802.3at/af) <b>16-channel NVRs:</b> 16 ports (IEEE802.3at/af)
USB	2 ports: USB 3.0 on rear panel; USB 2.0 on front panel
RS232	1 port, for PC communication
ELECTRICAL	
4-CHANNEL NVRs POWER SUPPLY	<b>NVR:</b> 12 V DC; 4 A external adaptor <b>PoE:</b> 48 V DC; 1.04 A external adaptor
8-/16-CHANNEL NVRs POWER SUPPLY	100 ~ 240 V AC; 50/60 Hz internal PSU
4-CHANNEL NVRs POWER CONSUMPTION	35 ~ 115 W depending on the number of HDD installed and PoE loading (maximum 393 Btu/hr)
8-/16-CHANNEL NVRs POWER CONSUMPTION	30 ~ 225 W depending on the number of HDD installed and PoE loading (maximum 768 Btu/hr)
ENVIRONMENTAL	
OPERATING TEMPERATURE	14°F to 131°F (-10°C to 55°C)
STORAGE TEMPERATURE	-4°F to 158°F (-20°C to 70°C)
HUMIDITY	10% to 90%
PHYSICAL	
DIMENSIONS	<b>4-channel NVRs:</b> 14.8 x 11.2 x 2.1 inches (375 x 285 x 53 mm) <b>8-/16-channel NVRs:</b> 14.8 x 12.6 x 2.1 inches (375 x 320 x 53 mm)
WEIGHT (WITHOUT HDD)	<b>4-channel NVRs:</b> 4.41 pounds (2.0 kg) <b>8-/16-channel NVRs:</b> 5.51 pounds (2.5 kg)
PHYSICAL	
EMISSIONS	FCC Part 15B, CE EN55022
IMMUNITY	CE EN50130-4
SAFETY	EU: EN60950-1 North America UL listed to UL/CSA 60950-1

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

\*\* Some development might be required in specific user cases to support some of these protocols in the field as they mature over time.

# Performance Series IP NVRs Technical Specifications

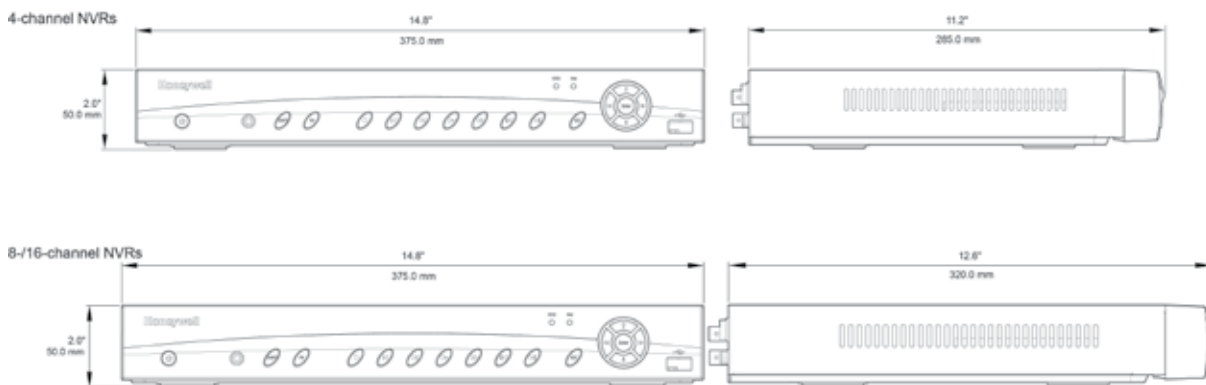
## SYSTEM INTEGRATION

ONVIF support and OPEN API for software integration. Refer to [www.ONVIF.org](http://www.ONVIF.org) for the ONVIF specification and the HONEYWELL OPEN TECHNOLOGY ALLIANCE (<http://www.security.honeywell.com/hota>) to learn more about our open and integrated solutions.



## RECOMMENDED CAMERAS

<b>3-INCH INDOOR MINI DOME CAMERAS</b>	H3D2F1; H3D2S2; H3D2SR2; H3S1P1; H3W1F1; H3D1F1; H3D1F2; H3D1F3
<b>4-INCH RUGGED MINI DOME CAMERAS</b>	H4D2F1; H4D2S2; H4S1P1; H4W1F1; H4D1F1; H4D1F2; H4D1F3; H4D1FR1; H4D3PRV3, H4D3PRV2
<b>BOX CAMERAS</b>	HCD1F; HCD2F; HCW1F; HCW2S2
<b>BULLET CAMERAS</b>	HBD2FR1; HBD2FR2; HBD2PR1, HBD1PR1, HBD3PR1, HBD3PR2
<b>BALL/MICRO DOME CAMERAS</b>	H2D2PR1; H2S1P6; H2S2P6, HED1PR3, HED3PR3



## ORDERING

<b>HEN04112</b>	H.264 4CH NVR 1 TB, 4 PoE
<b>HEN04122</b>	H.264 4CH NVR 2 TB, 4 PoE
<b>HEN08112</b>	H.264 8CH NVR 1 TB, 8 PoE
<b>HEN08122</b>	H.264 8CH NVR 2 TB, 8 PoE
<b>HEN08142</b>	H.264 8CH NVR 4 TB, 8 PoE
<b>HEN16122</b>	H.264 16CH NVR 2 TB, 16 PoE
<b>HEN16142</b>	H.264 16CH NVR 4 TB, 16 PoE
<b>HEN16162</b>	H.264 16CH NVR 6 TB, 16 PoE

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

## For more information

[www.honeywellvideo.com](http://www.honeywellvideo.com)

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