

## Performance Series IP NVRs

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

Introducing Honeywell's Performance Series IP 1080p NVRs, our newest affordable, fully featured IP NVRs. Choose a 4, 8 or 16 channel NVR, with the ability to expand to up to 12 TB\* internal storage, for an ideal and flexible solution to fit your surveillance situation.



#### 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 8 channels live view and play back at full frame rate 1080p resolution.
- Up to 16 channels recording at full frame rate 1080p, 3MP or 5MP resolution at a maximum of 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 Honeywell Viewer web client and the Honeywell Config tool.

#### Convenient, Flexible Storage Options

- Internal storage supports two HDDs up to 12 TB (6TB each)\*.
- Store videos and snapshots to external storage such as the client's PC, through the Internet connection.
- Store videos and snapshots to an external network storage server such as an FTP site.
- Store videos 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.

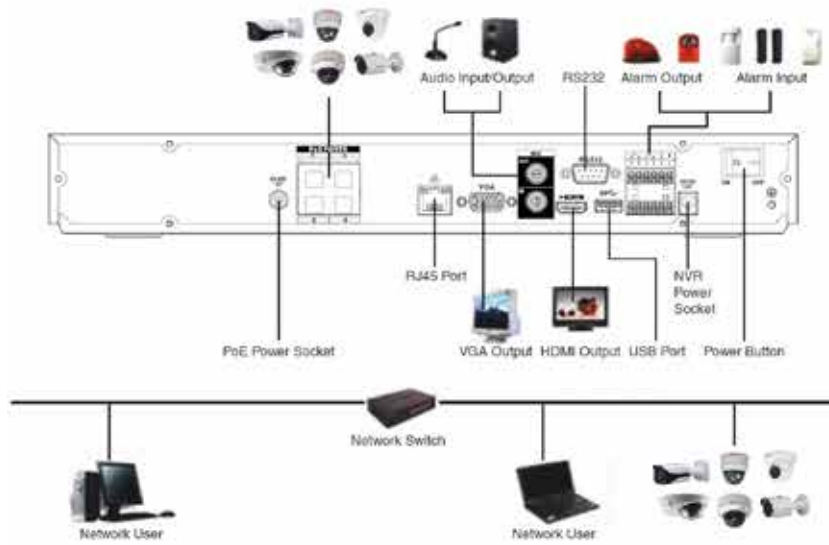
\*See User Guide for compatible HDD listings.

## FEATURES & BENEFITS

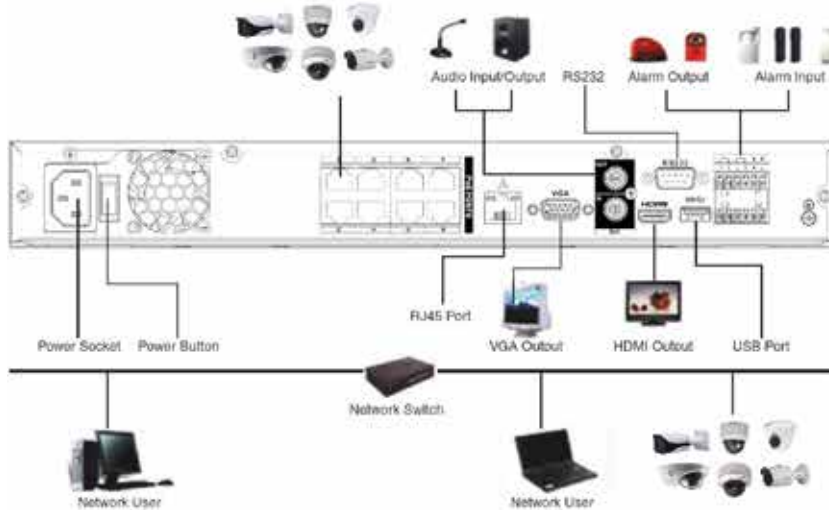
- H.264/MJPEG dual codec decoding
- Supports up to 4 alarm input channels and 2 alarm relay output channels (model dependent)
- Configurable to automatically detect and respond to motion in the scene, alarm inputs, and network failure or tampering.
- Supports sending notifications through email, FTP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

# Performance Series IP Features

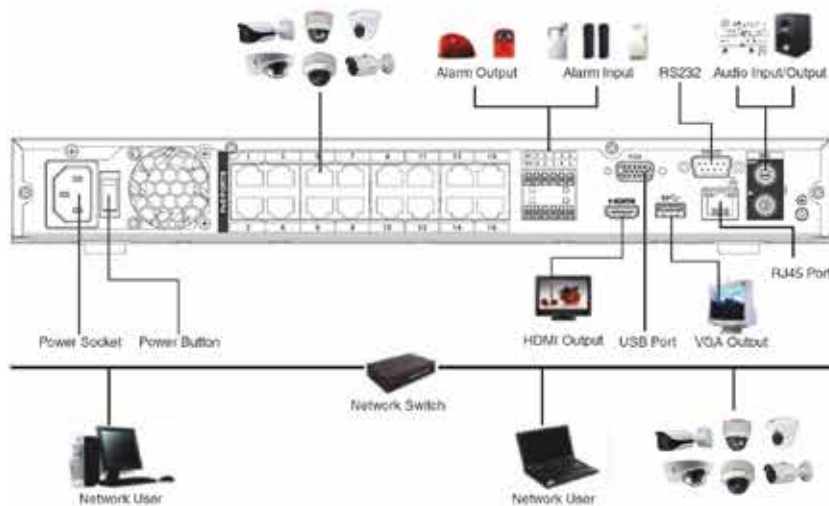
## 4-channel NVRs



## 8-channel NVRs



## 16-channel NVRs



# Performance Series IP NVR specifications

SYSTEM	
Main Processor	Dual-core embedded processor
Operating System	Embedded LINUX
VIDEO	
IP Camera Inputs	4/8/16 channels
Bi-directional Audio	1 channel input; 1 channel output; RCA
DISPLAY	
Interface	1 HDMI; 1 VGA
Resolution	1920 x 1080; 1280 x 1024; 1280 x 720; 1024x768
Display Split	4-channel NVRs: 1/4 8-channel NVRs: 1/4/8 16-channel NVRs: 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>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>1.3 MP</b> (1280 x 1024)
Recording Rate	4-channel NVRs: 100/120 fps @ 1080p 8-channel NVRs: 200/240 fps @ 1080p 16-channel NVRs: 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	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; Exact Search (accurate to a second)
Playback Function	Play; Pause; Stop; Rewind; Fast play; Slow play; Full Screen; Backup
Backup Mode Compatibility	USB Device; Network
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	IEEE802.3at / IEEE802.3af 4-channel NVRs: 4 ports 8-channel NVRs: 8 ports 16-channel NVRs: 16 ports
USB	2 ports: USB 3.0 on rear panel; USB 2.0 on front panel
RS232	1 port
RS485	1 port
ELECTRICAL	
4 Channel NVR Power Supply	NVR: 12 V DC; 4 A external adaptor PoE: 48 V DC; 1.04 A external adaptor
8/16 Channel NVR Power Supply	100 ~ 240 V AC; 50/60 Hz internal PSU
4 Channel NVR Power Consumption	35 ~ 115 W depending on the number of HDD installed and PoE loading (maximum 393 Btu/hr)
8/16 Channel NVR Power Consumption	30 ~ 225 W depending on the number of HDD installed and PoE loading (maximum 768 Btu/hr)
ENVIRONMENTAL	
Operating Temperature	-10°C to 55°C (14°F to 131°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%
PHYSICAL	
Dimensions	4-channel NVRs: 375 x 285 x 53 mm (14.8 x 11.2 x 2.1 inches) 8-/16-channel NVRs: 375 x 320 x 53 mm (14.8 x 12.6 x 2.1 inches)
Weight (without HDD)	4-channel NVRs: 2.0 Kg (4.41 pounds) 8-/16-channel NVRs: 2.5 Kg (5.51 pounds)
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 System Integration

## OPEN IP INTEGRATION

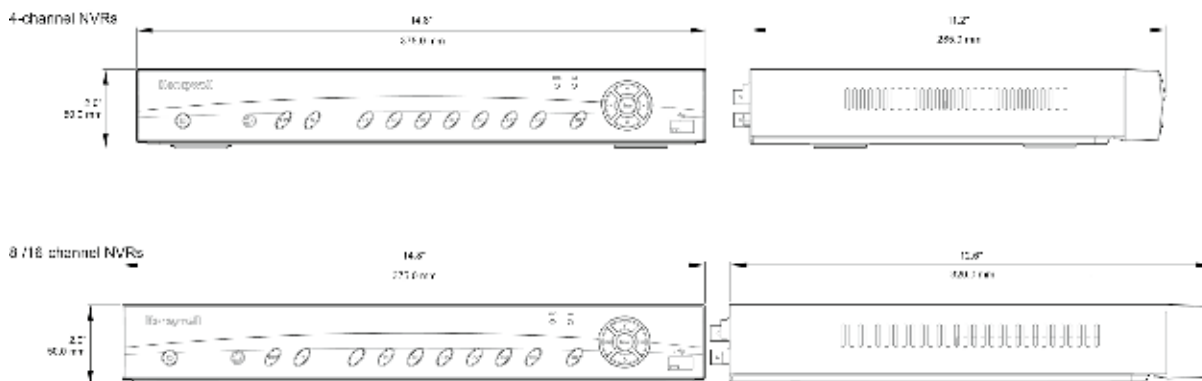
ONVIF support and open API for software integration. Refer to [www.onvif.org](http://www.onvif.org) for the ONVIF specification and the Honeywell Open Technology Alliance (<http://www.security.honeywell.com/hota>) to learn more about our open and integrated solutions.



## RECOMMENDED CAMERAS

4-inch Rugged Minidome Cameras	H4D3PRV3; H4D3PRV2
Bullet Cameras	HBD2FR1(X); HBD2FR2(X); HBD2PR1(X); HBD1PR1; HBD3PR1; HBD3PR2
Eyeball / Micro Dome Cameras	H2S2P6(X); HED1PR3; HED3PR3

## Dimensions



## Ordering

MODEL NUMBER	DESCRIPTION
HEN04102	H.264 4CH NVR, no HDD, 4 PoE
HEN04112	H.264 4CH NVR 1 TB, 4 PoE
HEN04122	H.264 4CH NVR 2 TB, 4 PoE
HEN08102	H.264 8CH NVR, no HDD, 8 PoE
HEN08112	H.264 8CH NVR 1 TB, 8 PoE
HEN08122	H.264 8CH NVR 2 TB, 8 PoE
HEN08142	H.264 8CH NVR 4 TB, 8 PoE
HEN16102	H.264 16CH NVR, no HDD, 16 PoE
HEN16122	H.264 16CH NVR 2 TB, 16 PoE
HEN16142	H.264 16CH NVR 4 TB, 16 PoE
HEN16162	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.honeywell.com/security/uk](http://www.honeywell.com/security/uk)

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