

## Performance Series IP NVRs

www.honeywellvideo.com

### 4, 8 & 16 CHANNEL EMBEDDED NVRs

Introducing Honeywell's Performance Series IP 1080p Embedded NVRs, our newest affordable, fully featured IP NVRs. Choose a 4, 8 or 16-channel NVR, with the ability to expand to up to 8TB of 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 eight channels live view and play back at full frame rate 1080p resolution.
- Up to 16 channels recording at full frame rate 1080p resolution.

#### Easy to Use

- The Quick wizard and 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 8TB (4TB 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.

#### NVR Features

- H.264/MJPEG dual codec decoding
- HDMI/VGA simultaneous video output
- Supports up to 16 alarm input channels and 3 alarm relay output channels (model dependant)
- UL listed

\*See User Guide for compatible HDD listings.



HD

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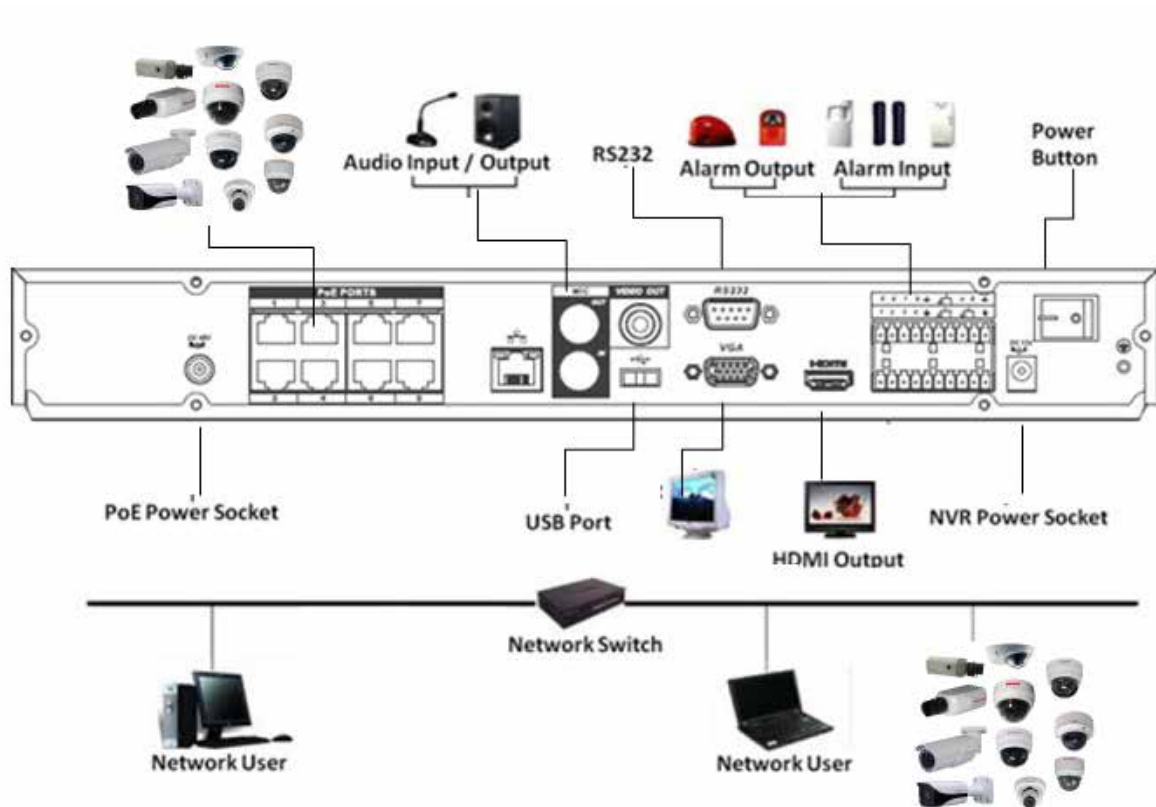
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## FEATURES

### Immediately Detect and Respond to Events

The Performance Series IP NVR can be configured to automatically detect and respond to events such as motion in the scene, alarm inputs, a network failure and/or tampering. Automated responses include:

- Sending a notification through email, FTP and/or HTTP.
- Uploading still images at the time of the event through email and/or FTP.
- Recording a video clip of the event so it is ready to distribute to authorities.
- Enabling a visual or auditory notification (a flashing light, bell or siren).



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## 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; BNC
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> 1/4/8/9 <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>1080p</b> (1920 x 1080); <b>720p</b> (1280 x 720); <b>D1</b> (704 x 576 / 704 x 480); <b>SXGA</b> (800 x 600); <b>1.3 MP</b> (1280 x 1024)
Recording Rate	<b>4-channel NVRs:</b> 100/120 fps @ 1080p, (100 fps @ 1080p for PAL, 120 fps @ 1080p for NSTC) <b>8-channel NVRs:</b> 200/240 fps @ 1080p, (200 fps @ 1080p for PAL, 240 fps @ 1080p for NSTC) <b>16-channel NVRs:</b> 400/480 fps @ 1080p, (400 fps @ 1080p for PAL, 480 fps @ 1080p for NSTC)
Bit Rate	<b>4-channel NVRs:</b> 256 to 8192 Kbps <b>8-/16-channel NVRs:</b> 1 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
Alarm Input	16 channels
Relay Output	3 channels
Playback and Backup	
Sync Playback	<b>4-channel NVRs:</b> 1/4 <b>8-channel NVRs:</b> 1/4/9 <b>16-channel NVRs:</b> 1/4/9/16
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

\* 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.

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®, Google Chrome
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 8 TB; RAID (redundancy)
Connectors	
Ethernet	1 x RJ-45 port (10/100/1000 Mbps)
PoE	<b>4-channel NVRs:</b> 4 ports (IEEE802.3af) <b>8-/16-channel NVRs:</b> 8 ports (IEEE802.3af)
USB	2 ports (1 on rear panel); USB 2.0
RS232	1 port, for PC communication and keyboard
RS485	1 port, for PTZ control (not supported at this time)
Electrical	
Power Supply (NVR)	12 V DC; 5 A
Power Supply (PoE)	4-channel NVRs: 48 V DC; 1.04 A 8-channel and 16-channel NVRs: 48 V DC; 2.5 A
Power Consumption (NVR)	20 W (without HDD)
Power Consumption (PoE)	Maximum 15 W each
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	14.8 x 11.2 x 2.1 inches (375 x 285 x 52.6 mm)
Weight (without HDD)	5.07 pounds (2.3 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

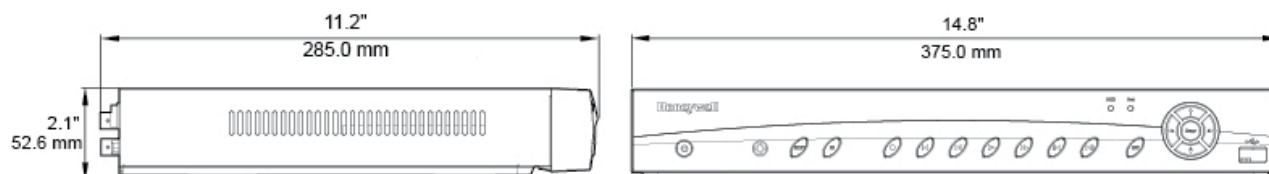
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## ORDERING

System Integration		Recommended Cameras
Open IP Integration ONVIF support and open API for software integration. Refer to <a href="http://www.onvif.org">www.onvif.org</a> for the ONVIF specification and the Honeywell Open Technology Alliance ( <a href="http://www.security.honeywell.com/hota">http://www.security.honeywell.com/hota</a> ) to learn more about our open and integrated solutions.		3-inch Indoor Minidome Cameras H3D2F1; H3D2S2; H3D2SR2; H3S1P1; H3W1F1; H3D1F1; H3D1F2; H3D1F3
		4-inch Rugged Minidome Cameras H4D2F1; H4D2S2; H4S1P1; H4W1F1; H4D1F1; H4D1F2; H4D1F3; H4D1FR1
		Box Cameras HCD1F; HCD2F; HCW1F; HCW2S2
		Bullet Cameras HBD2FR1; HBD2FR2; HBD2PR1
		Eyeball / Micro Dome Cameras H2D2PR1; H2S1P6; H2S2P6

## DIMENSIONS



## ORDERING

Model Number	Description
<b>HEN04111</b>	4CH NVR, 1TB SATA HDD, 1080p, H.264, NTSC
<b>HEN04121</b>	4CH NVR, 2TB SATA HDD, 1080p, H.264, NTSC
<b>HEN08121</b>	8CH NVR, 2TB SATA HDD, 1080p, H.264, NTSC
<b>HEN08141</b>	8CH NVR, 4TB SATA HDD, 1080p, H.264, NTSC
<b>HEN08161</b>	8CH NVR, 6TB SATA HDD, 1080p, H.264, NTSC
<b>HEN16131</b>	16CH NVR, 3TB SATA HDD, 1080p, H.264, NTSC
<b>HEN16161</b>	16CH NVR, 6TB SATA HDD, 1080p, H.264, NTSC

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

### For more information:

[www.honeywell.com/security](http://www.honeywell.com/security)

### Automation and Control Solutions

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