

16-/32-/64-Channel 4K ENVRs

HEN16384/HEN32384/HEN323164/HEN643164/
HEN643324/HEN643484

Introducing Honeywell's Performance Series 4K Embedded NVRs, our newest affordable, fully featured NVRs offering Ultra HD 4K video resolution. Choose a 16-, 32-, or 64-channel NVR, with multiple hard drive options plus the ability to expand to up to 64 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, or 8 channels at 4 MP, or 4 channels at 8 MP H.265/H.264 decoding
- De-warp fisheye camera video in local and web user interface for 360 degree situational awareness

Easy to Use

- The Quick wizard and PoE support (for up to 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 Performance Series 4K Embedded NVRs make these NVRs perfect for a wide range of security applications.

Convenient, Flexible Storage Options

- Internal storage supports 8 HDDs expandable up to 64 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

Dynamic, Accessible Monitoring

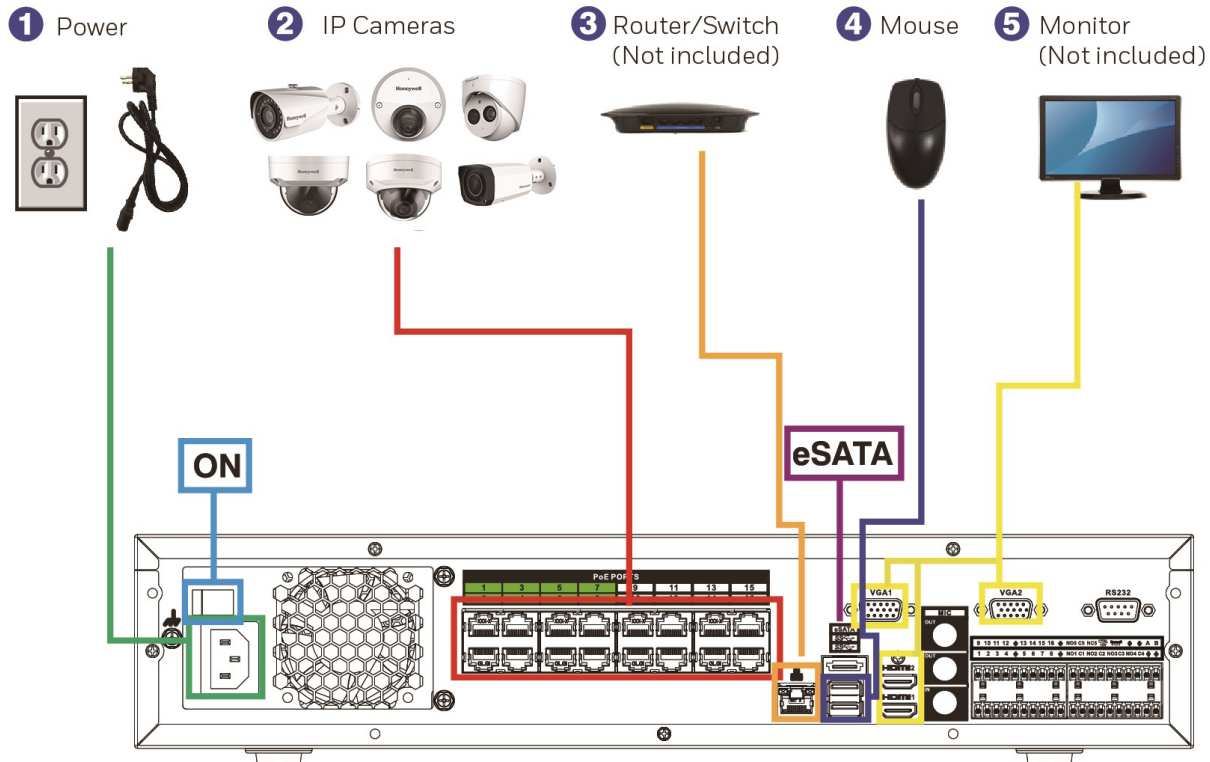
- Monitor from anywhere using the mobile apps for both Apple® and Android™ devices (smartphones, tablet computers, and laptops)
- Protect the NVR's video and network setup with password-protected access
- Conceal up to 4 areas of a scene from viewing and recording

FEATURES AND BENEFITS

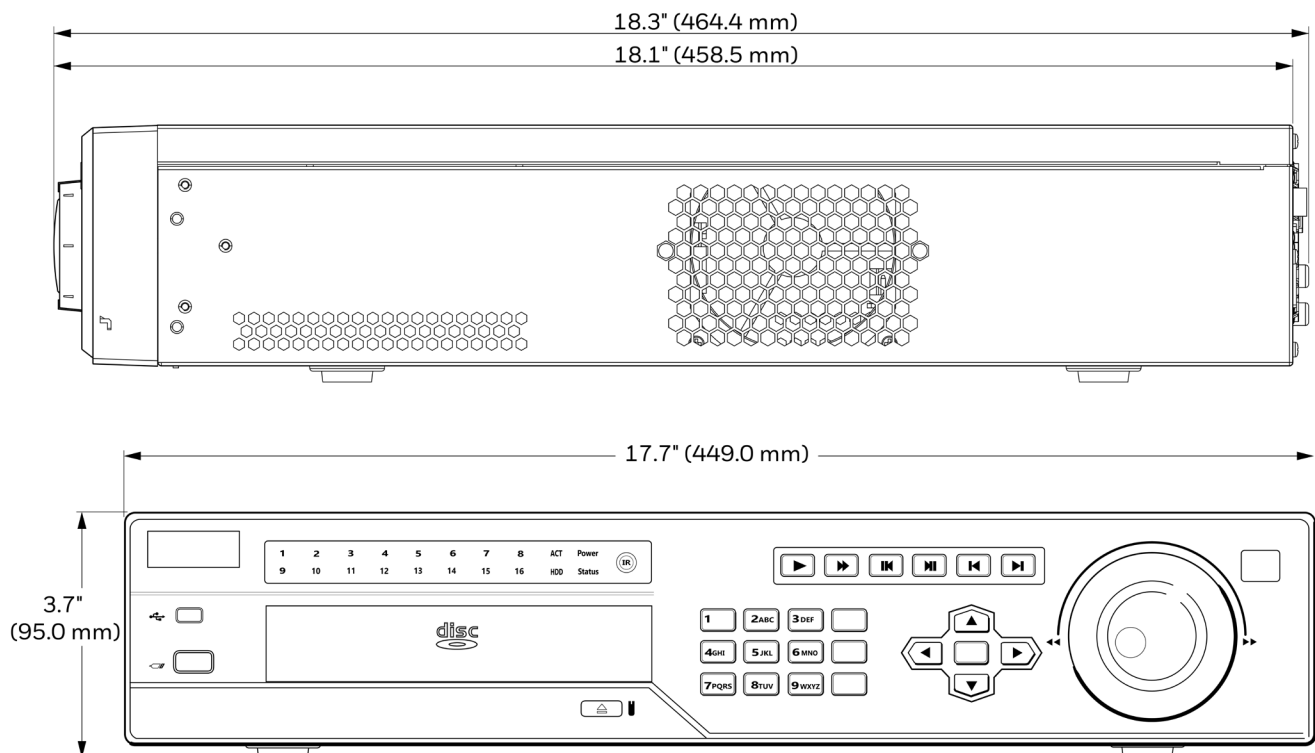
- | | | | | |
|---|---|--|---|--|
| <ul style="list-style-type: none">• H.265/H.264/MJPEG/MPEG4 codec decoding• 2 HDMI/2 VGA simultaneous video outputs (the second HDMI output is programmable) | <ul style="list-style-type: none">• Supports up to 16 alarm input channels and 6 alarm relay output channels• Supports sending notifications through email, FTP, and/or HTTP | <ul style="list-style-type: none">• UL listed• Supports recording a video clip of events for distribution• Supports uploading still images at the time of the event through email and/or FTP | <ul style="list-style-type: none">• Configurable to automatically detect and respond to motion in the scene, alarm inputs, and network failure or tampering• Maximum incoming and outgoing bandwidth of 320 Mbps | <ul style="list-style-type: none">• Supports visual or auditory notifications (a flashing light, bell, or siren)• Supports fisheye video de-warping in local and web user interface |
|---|---|--|---|--|

16-/32-/64-Channel 4K ENVRs Technical Specifications

SYSTEM DIAGRAM



DIMENSIONS



16-/32-/64-Channel 4K ENVRs Technical Specifications

| SYSTEM | |
|-------------------------------|--|
| MAIN PROCESSOR | Quad-core embedded processor |
| OPERATING SYSTEM | Embedded LINUX |
| VIDEO | |
| INPUTS | HEN163*4: 16 Channels IP HEN323*4: 32 Channels IP HEN643*4: 64 Channels IP |
| AUDIO | |
| AUDIO INPUT/OUTPUT | 1 Channel Input/2 Channel Outputs, RCA |
| TWO-WAY COMMUNICATION | Supported |
| DISPLAY | |
| INTERFACE | 2 HDMI (1 HDMI up to 3840 × 2160); 2 VGA |
| RESOLUTION | 3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720; 1024 × 768 |
| DISPLAY SPLIT | HEN163*4: 1/4/8/9/16 HEN323*4: 1/4/8/9/16/25/36 HEN643*4: 1/4/8/9/16/25/36/64 |
| OSD | Camera title; Time; Video loss; Camera lock; Motion detection; Recording |
| PROGRAMMABLE VIDEO OUTPUT | 2nd HDMI output |
| 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 | 16 Channels |
| RELAY OUTPUT | 6 Channels |

| PLAYBACK AND BACKUP | |
|----------------------------------|---|
| SYNC PLAYBACK | 1/4/8/16 (maximum 4-ch @ 8MP, 8-ch @ 4MP, 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; eSATA Device |
| NETWORK | |
| ETHERNET | 1 RJ-45 port (10/100/1000 Mbps) |
| POE | 16 ports (IEEE802.3af/at) |
| 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 |
| SMART PHONE COMPATIBILITY | iPhone; iPad; Android |
| STORAGE | |
| INTERNAL HDD | 8 SATA ports, up to 64 TB |
| EXTERNAL HDD | 1 eSATA port |
| AUXILIARY INTERFACE | |
| USB PORTS | 4 (2 rear USB3.0; 2 front USB2.0) |
| RS232 | 1 port (for PC communications and keyboard) |
| ELECTRICAL | |
| POWER SUPPLY | Single, 100~240 VAC, 50/60 Hz |
| POWER CONSUMPTION | NVRs: 17.5 W max (without HDD) PoE: 25.5 W for a single port (150 W total) |
| 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 | 17.3" × 17.9" × 3.7" (440 mm × 454 mm × 95 mm) |
| WEIGHT (WITHOUT HDD) | 15.4 lb. (7.0 kg) |
| 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 |

* The * = hard drive capacity in TB.

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 naturally protocols will mature over time.

16-/32-/64-Channel 4K ENVRs

RECOMMENDED ACCESSORIES

| RECOMMENDED CAMERAS | |
|-----------------------------------|--|
| RUGGED 4K IR MINIDOME IP CAMERAS | H4D8PR1; H4W8PR2 |
| 4K IR BULLET IP CAMERAS | HBD8PR1; HBW8PR2 |
| 4K IR BALL IP CAMERAS | HED8PR1 |
| 1080P IR PTZ IP CAMERAS | HDZP252DI |
| INDOOR 5 MP FISHEYE IP CAMERAS | HFD5PR1 |
| 3-INCH INDOOR MINIDOME IP CAMERAS | H3W2GR1; H3W2GR2; H3W4GR1 |
| 4-INCH RUGGED MINIDOME IP CAMERAS | H4D3PRV2; H4W2PRV2; H4W4PRV2; H4D3PRV3; H4W4PRV3; H4W2GR1; H4W2GR2; H4W4GR1; H4D8GR1; H4W2PER2; H4W2PER3 |
| INDOOR BOX IP CAMERAS | HCW2G; HCL2G; HCW4G; HCD8G |
| BULLET IP CAMERAS | HBD3PR2; HBW2PR2; HBW4PR2; HBW2PR1; HBW4PR1; HBL2GR1; HBW2GR1; HBW2GR3; HBW4GR1; HBD8GR1; HBD1PR1; HBD3PR1; HBW2PER1; HBW2PER2; HBW4PGR1; |
| BALL/MICRO DOME IP CAMERAS | H2W2PRV3; H2W4PRV3; HEW2PRW1; HEW4PRW3; HEW2PR1; HEW4PR3; HEW2PR2; HEW4PR2; HED1PR3; HED3PR3; HEW4PER2; HEW2PER2; HEW2PER3; HEW4PER3B; HEW4PER2B; H2W2PC1M; H2W4PER3; H2W2PER3 |
| PIN-HOLE IP CAMERA | HPW2P1 |

ORDERING

| | |
|-----------|---|
| HEN16384 | NVR, 16-Channel, H.265, 4K 12 MP, 8 SATA, 16 PoE, 480 fps, 8 TB |
| HEN32384 | NVR, 32-Channel, H.265, 4K 12 MP, 8 SATA, 16 PoE, 960 fps, 8 TB |
| HEN323164 | NVR, 32-Channel, H.265, 4K 12 MP, 8 SATA, 16 PoE, 960 fps, 16 TB |
| HEN643164 | NVR, 64-Channel, H.265, 4K 12 MP, 8 SATA, 16 PoE, 1920 fps, 16 TB |
| HEN643324 | NVR, 64-Channel, H.265, 4K 12 MP, 8 SATA, 16 PoE, 1920 fps, 32 TB |
| HEN643484 | NVR, 64-Channel, H.265, 4K 12 MP, 8 SATA, 16 PoE, 1920 fps, 48 TB |

For more information

www.security.honeywell.com

Honeywell Commercial Security

715 Peachtree St. NE
Atlanta, GA 30308
1.800.323.4576
www.honeywell.com

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

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