

4-/8-/16-/32-Channel ENVRs

HEN04103L/ HEN08103L
HEN16103L/ HEN32103L

Introducing Honeywell's Performance Series Embedded NVRs, our newest affordable, fully-featured NVRs offer Ultra 4K HD video resolution. Choose between a 4-, 8-, 16- or 32-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 4/8/16/32 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



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Easy to Use

- The Quick wizard makes setup fast and easy
- Quick installations utilizing an intuitive NVR design and easy-to-understand quick installation guides
- Simple remote configuration and firmware updates through the Honeywell Viewer web client and the Honeywell Config tool

Market Opportunities

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

FEATURES & BENEFITS

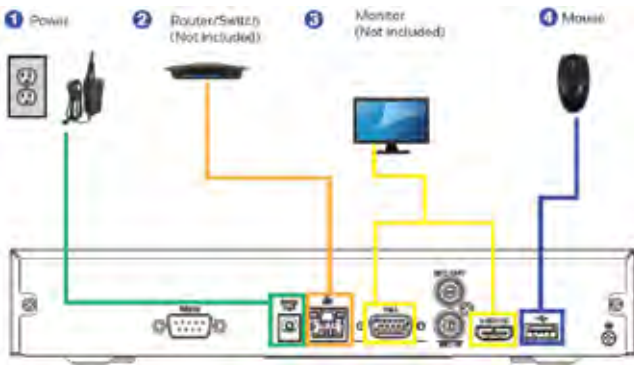
These fully featured attractive cameras are perfect for outdoor installations that require excellent picture quality at minimal bandwidth while offering maximum protection against dust, dirt, and water. Boasting a sleek, modern design and offering two different lens options, the cameras are suited for a wide range of applications.

- 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
- Configurable to automatically detect and respond to motion in the scene, alarm inputs, and network failure or tampering
- Supports visual or auditory notifications (a flashing light, bell, or siren)
- HDMI/ VGA simultaneous video output
- Supports sending notifications through email, FTP, and/or HTTP
- Supports uploading still images at the time of the event through email and/or FTP
- Maximum incoming bandwidth of 200 Mbps
- UL listed

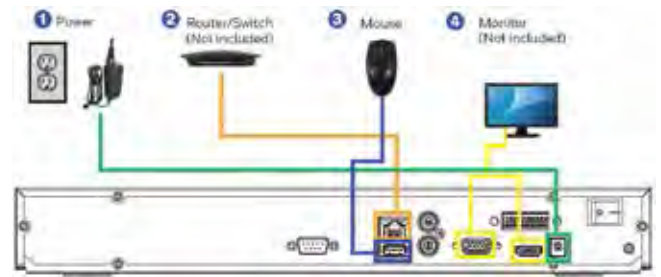
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SYSTEM DIAGRAM

HEN04103L/HEN08103L

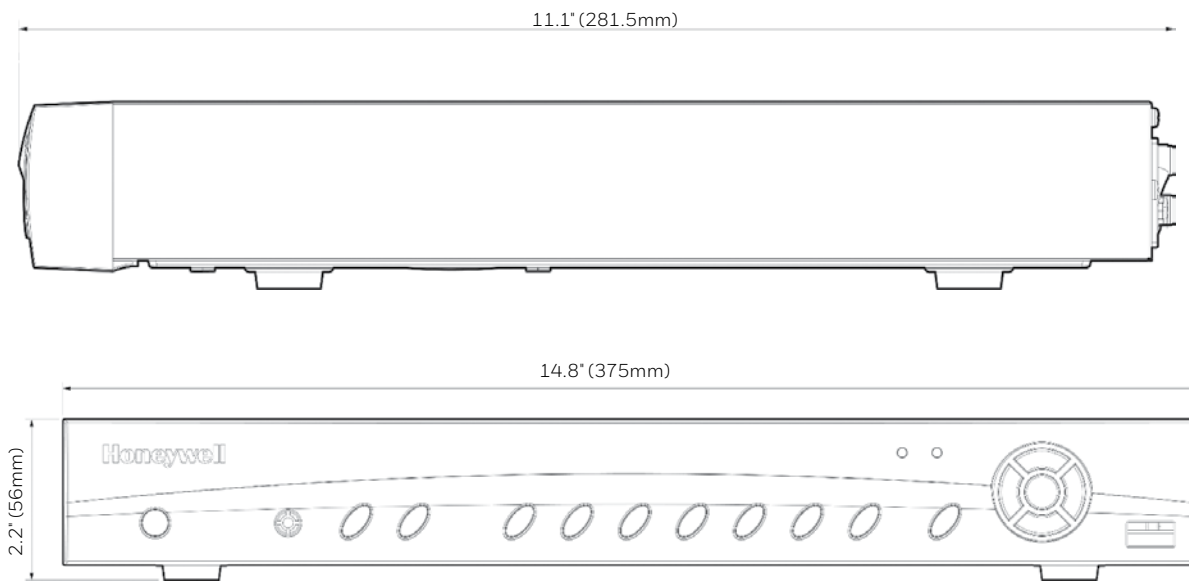


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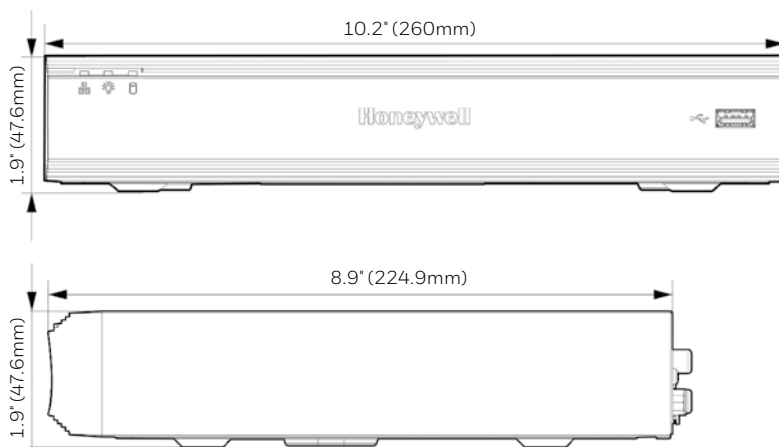


DIMENSIONS

HEN16103L/ HEN32103L



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TECHNICAL SPECIFICATIONS

OPERATIONAL	
MAIN PROCESSOR	Quad-core embedded processor
OPERATING SYSTEM	Embedded LINUX
VIDEO	
INPUTS	HEN04103L: 4 Channels IP HEN08103L: 8 Channels IP HEN16103L: 16 Channels IP HEN32103L: 32 Channels IP
AUDIO	
AUDIO INPUT/OUTPUT	1 Channel Input/1 Channel Output, RCA
TWO-WAY COMMUNICATION	Supported
OPERATIONAL	
INTERFACE	1 HDMI, 1 VGA
RESOLUTION	3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720;
DISPLAY SPLIT	HEN04103L: 1/4 HEN08103L: 1/4/8/9 HEN16103L/ HEN32103L: 1/4/8/9/16
OSD	Camera title; Time; Video loss; Camera lock; Motion detection; Recording
OPERATIONAL	
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	HEN041*3: 80Mbps HEN081*3: 200Mbps HEN161*3: 200Mbps
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; 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	HEN16103L/ HEN32103L: 2 SATA III ports, up to 12 TB HEN04103L/HEN08103L: 1 SATA III Port (up to 6 TB)
PLAYBACK AND BACKUP	
SYNC PLAYBACK	4-channel NVRs: 1/4 8-channel NVRs: 1/4/8 16-channel NVRs: 1/4/8/16 32-channel NVRs: 1/4/8/16
DECODING	2-ch in 8 MP@15fps or 4-ch in 1080P@30fps
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

NETWORK	
ETHERNET	1 RJ-45 port (10/100/1000 Mbps)
POE	N/A
SUPPORTED PROTOCOLS ²	HTTP, HTTPS, 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	HEN04103L/HEN08103L: 80 Mbps HEN16103L/ HEN32103L: 200 Mbps
SMART PHONE COMPATIBILITY	iPhone; iPad; Android
AUXILIARY INTERFACE	
USB PORTS	HEN04103L/HEN08103L: 2 USB Ports (2 USB2.0) HEN16103L/HEN32103L: 2 USB Ports (1 USB2.0, 1 USB3.0)
RS232	1 port (for POS communications)
ELECTRICAL	
POWER SUPPLY	HEN04103L/HEN08103L: DC12V/2A HEN16103L/HEN32103L: DC12V/4A
POWER CONSUMPTION	HEN04103L/HEN08103L: <6.3W (Without HDD) HEN16103L/HEN32103L: <6.9W (Without HDD)
ENVIRONMENTAL	
OPERATING TEMPERATURE	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
RELATIVE HUMIDITY	0% to 90% relative humidity
STORAGE TEMPERATURE	-4°F to 158°F (-20°C to 70°C)
PHYSICAL	
DIMENSIONS	HEN16103L/HEN32103L: 1U, 375mm×281.5mm×56mm (14.8" x 11.1" x 2.2") HEN04103L/HEN08103L: Compact 1U, 260mm×224.9mm×47.6mm (10.2" x 8.9" x 1.9")
WEIGHT (WITHOUT HDD)	HEN16103L/HEN32103L: 1.6kg (3.5 lb) (without HDD) HEN04103L/HEN08103L: 0.8kg (1.76 lb) (without HDD)
REGULATORY	
EMISSIONS	FCC Part 15B, EN55032: 2012+AC: 2013
IMMUNITY	EN50130-4: 2011
SAFETY	EU: EN60950-1 North America UL listed to UL/CSA 60950-1
ROHS	EN50581: 2012

- 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 protocols will mature over time.

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ORDERING

ACCESSORIES

RACK MOUNT TRAY	HENHQATRAY
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RECOMMENDED CAMERAS

MINIDOME IP CAMERAS	H4D3PRV2, H4W2PRV2, H4W4PRV2, H2W2PRV3, H2W4PRV3, H4D3PRV3, H4W4PRV3, H4D8PR1, H4W4PER2, H4W4PER3
BULLET IP CAMERAS	HBD3PR2, HBW2PR2, HBW4PR2, HBW4PER2, HBW2PR1, HBD8PR1, HBD2PER1, HBW4PER1, HBD1PR1, HBD3PR1
IR PTZ IP CAMERAS	HDZP252DI, HDZP304DI
BALL/MICRO DOME IP CAMERAS	HEW2PRW1, HEW4PRW3, HED8PR1, HED2PER3, HEW4PER3, HEW2PR1, HEW4PR3, HEW2PR2, HEW4PR2, HED1PR3, HED3PR3

ORDERING

HEN04103L	H.265 4CH NVR, OTB, NO POE, 4k, output HDMI/VGA 4k, Ethernet Gigabit, 4 inputs/2 outputs
HEN08103L	H.265 8CH NVR, OTB, NO POE, 4k, output HDMI/VGA 4k, Ethernet Gigabit, 4 inputs/2 outputs
HEN16103L	H.265 16CH NVR, OTB, NO POE, 4k, output HDMI/VGA 4k, Ethernet Gigabit, 4 inputs/2 outputs
HEN32103L	H.265 4K 32CH NVR, OTB, NO POE, 4k, output HDMI/VGA 4k, Ethernet Gigabit, 4 inputs/2 outputs
