

Performance Series HQA Digital Video Recorder Overview

Take Advantage of Existing Coax Infrastructure with High Quality Analog 1080p Hybrid DVRs

Supercharge your analog security system with Honeywell's HQA (High Quality Analog) technology for High Definition 1080p images over your existing coax infrastructure. Our newest HQA DVRs use an over-coaxial cable analog HD video transmission standard to allow long-distance HD transmission at a lower cost. The Performance Series HQA DVRs are the economic alternative for achieving HD video surveillance while retaining your existing BNC cables and cameras.

Fully-featured DVRs

- High decoding capability for full HD viewing and recording.
- View up to 16 channels simultaneously on your monitor with 960 x 540 preview.
- Record all channels @ 720p full frame rate.
- H.264 dual-stream video compression.
- Each channel supports HQA/analog video input; up to 8 additional channels support IP video input.
- Simultaneous HDMI/VGA video output.

Easy to Use

- The Quick wizard and plug-and-play (like traditional DVRs and analog cameras) make setup fast and easy.
- Physical installation within minutes with the help of a comprehensive and easy-to-understand quick installation guide.

Convenient, Flexible Storage Options

- Storage is expandable up to 6 TB for 1 SATA units and 12 TB for 2 SATA units.
- Store videos and snapshots to external storage such as the client's PC, through the Internet.
- Store videos and snapshots to an external network storage server such as an FTP site.
- Store videos and snapshots to a USB storage device.



HD

Dynamic, Accessible Monitoring

- Monitor from anywhere using the mobile apps for iOS and Android devices.
- All channels support synchronous playback and smart search (search for video that was recorded because motion was detected in a selected area).

Safety Features

- Configurable motion detection and camera tamper detection settings, including configurable event notifications, such as automatic emails (with attached video or snapshot) and automatic alerts (such as buzzers).
- Remote configuration and firmware updating through Honeywell Viewer web client and the Honeywell Config tool. Password-protected access to the camera's and DVR's video and network setup.
- Bidirectional communication for the DVR.

Market Opportunities

- The Performance Series HQA Hybrid 1080p DVRs' HQA technology makes these DVRs perfect for installations where you want HD-quality video while still using your existing coax infrastructure.
- These HQA DVRs also deliver higher quality video than current 960H analog systems, but at a similar cost.

SPECIFICATIONS

	HRHQ1040L/HRHQ1080L	HRHQ1160
SYSTEM		
MAIN PROCESSOR	Embedded Processor	
OPERATING SYSTEM	Embedded Linux	
VIDEO		
INPUTS	HRHQ1040L: 4 BNCs HRHQ1080L: 8 BNCs	16 BNC
HQA STANDARD	1080p/720p HQA Up-the-COAX control supported	
ANALOG STANDARD	NTSC/PAL: CVBS, CVI, TVI, AHD, 960H	
DISPLAY		
INTERFACE	1 HDMI, 1 VGA	
RESOLUTION	1920×1080, 1280×1024, 1280×720, 1024×768	
DISPLAY SPLIT	4-Channel DVRs: 1/4/6 8-Channel DVRs: 1/4/8/9/16	1/4/8/9/16/25
OSD	Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording	
RECORDING		
COMPRESSION	H.264+, H.264	
RESOLUTION	1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF	
MAIN STREAM RECORDING RATE	1080p up to 15 fps: 1080N, 720p, 960H, D1, HD1, BCIF, CIF, QCIF up to 25/30 fps (PAL/NTSC)	
SECONDARY STREAM RECORDING RATE	D1, CIF, QCIF up to 25/30 fps (PAL/NTSC)	
BIT RATE*	32 Kbps ~ 6144 Kbps per channel	
RECORDING MODE	Manual, Schedule (Regular/Continuous), MD (Video Detection, Motion Detection, Video Loss, Tampering), Alarm, Stop	
RECORDING INTERVAL	1 ~ 20 min (default: 60 min)	
PRE-RECORDING INTERVAL	1 ~ 30 sec	
POST-RECORDING INTERVAL	10 ~ 300 sec	
VIDEO DETECTION AND ALARMS		
TRIGGER EVENTS	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer, Screen Tips	
VIDEO DETECTION	Motion Detection, MD Zones: 396 (22×18), Video Loss, Face Detection*** and Camera Blank	
PLAYBACK AND BACKUP		
SYNC PLAYBACK	4-Channel DVRs: 1/4 8-Channel DVRs: 1/4/9	1/4/9/16
SEARCH MODE	Time/Date, Alarm, MD and Exact Search (accurate to the second)	
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	

	HRHQ1040L/HRHQ1080L	HRHQ1160
NETWORK		
ETHERNET	1 RJ-45 Port (100M)	
NETWORK FUNCTION**	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search (support IP camera, DVR, NVS, etc.)	
MAXIMUM NUMBER OF USERS	128	
MOBILE DEVICE COMPATIBILITY	iPhone, iPad, Android	
AUDIO		
AUDIO INPUT/OUTPUT	4/1	
TWO-WAY COMMUNICATION	1 Channel Input, 1 Channel Output, RCA	
STORAGE		
INTERNAL STORAGE	1SATA port, upto 6TB max	2 SATA Port, up to 6TB capacity for each disk
AUXILIARY INTERFACE		
USB	2 USB Ports (1 USB 2.0, 1 USB 3.0)	
RS232	N/A	
RS485	1 Port, for PTZ Control	
ELECTRICAL		
POWER SUPPLY	12 VDC, 2 A	12 VDC, 4 A
POWER CONSUMPTION	10W (without HDD)	15W (without HDD)
ENVIRONMENTAL		
OPERATING TEMPERATURE	14°F to 131°F (-10°C to 55°C)	
RELATIVE HUMIDITY	0 ~ 90%, non-condensing	
STORAGE TEMPERATURE	32°F to 122°F (0°C to 50°C)	
PHYSICAL		
DIMENSIONS	(325 × 255 × 55 mm)	325 × 285 × 55mm
WEIGHT (WITHOUT HDD)	3.2 lb. (1.45 kg)	3.9lb (1.8kg)
REGULATORY		
EMISSIONS	FCC Part 15B, CE EN55032	
IMMUNITY	CE EN50130-4	
SAFETY	UL60950-1;EN60950-1	
ROHS	EN 50581	

* Actual bit rate is scene and motion dependent with H.264 stream.

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

***The DVR supports the face detection function on 1 channel for HQA cameras only. If IP cameras are connected, the face detection function is disabled.

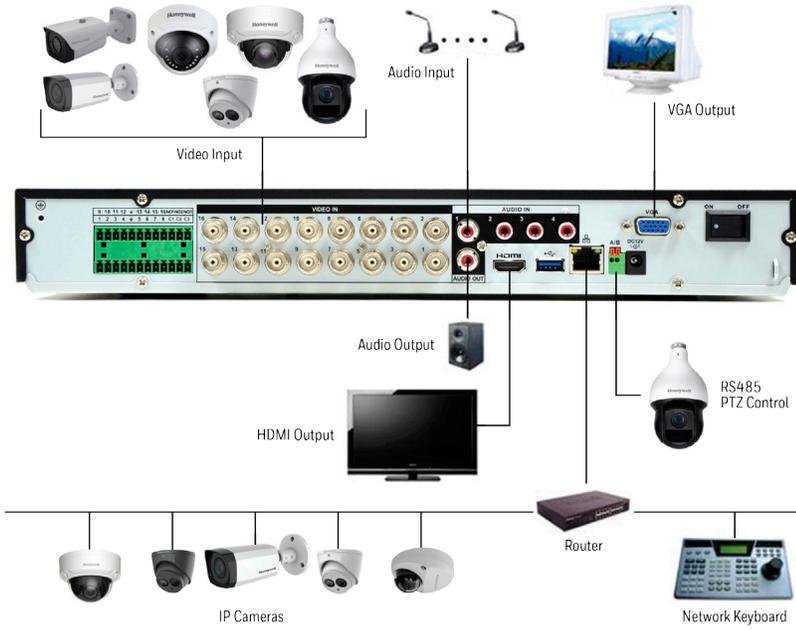
Performance Series HQA DVRs

Immediately Detect and Respond to Events

The Performance Series HQA 1080p Hybrid DVRs can be configured to automatically detect and respond to events such as motion in the scene, alarm inputs, video loss, and/or tampering.

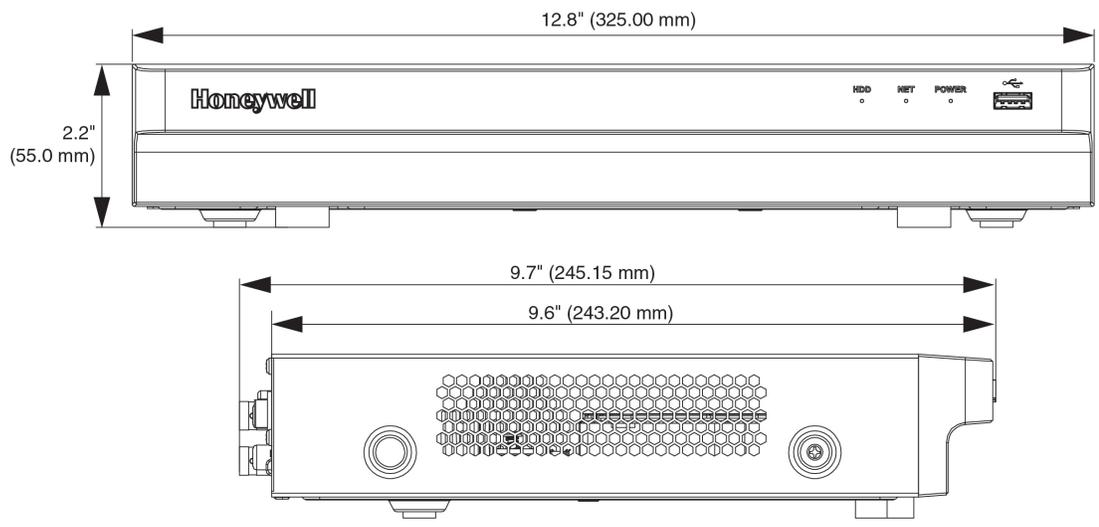
Automated Responses Include:

- 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 to a configured the client's or network-attached storage.

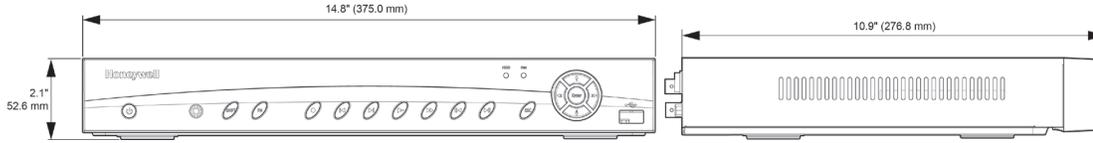


DIMENSIONS

HRHQ1040L AND HRHQ1080L



HRHQ1160



ORDERING

HRHQ1040L	4-Channel, 1 SATA, 720p @ 120 fps, 1080p @ 60 fps, No Alarm Input/Output, 0 TB, 12 VDC
HRHQ1080L	8-Channel, 1 SATA, 720p @ 240 fps, 1080p @ 120 fps, No Alarm Input/Output, 0 TB, 12 VDC
HRHQ1160	16-Channel, 2 SATA, 720p @ 480 fps, 1080p @ 240 fps, alarm 16/3 input/output, 0 TB, 12 VDC

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

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