

Performance Series HQA DVRs

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720P/1080P DVRs

Supercharge your Analogue security system with Honeywell's HQA (High Quality Analog) technology for High Definition 720p/1080p images over your existing coax infrastructure. The Performance Series HQA 720p/1080p 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 1080p full-frame rate preview.
- Up to 16 channels of alarm input (depending on model) and 2 channels of alarm relay output.
- HRHH204/HRHH208 DVRs: Record all channels @ 1080p full frame rate.
- HRHM104/HRHH108/HRHH116 DVRs: Record all channels @ either 720p full frame rate or 1080p half frame rate.
- H.264 dual-stream video compression.
- Each channel supports HQA/Analog Video input. (HRHM104 supports HQA cameras only).
- Simultaneous HDMI/VGA video output.
- Hybrid models support both Standard Definition (SD) and High Quality Analog (HQA).

Easy to Use

- The Quick wizard and plug-and-play (similar to 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

- Internal storage supports two HDDs, up to 8 TB total (4 TB each). (Please note, the HRHM1041 DVR only supports a single HDD, up to 4 TB total).
- 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 memory device.

Dynamic, Accessible Monitoring

- Monitor from anywhere using the mobile apps for Apple, Android, and Windows smartphones, Apple and Android tablet computers, and laptops.
- Network monitoring, including the transmission of some alarm information through SNMP.
- All channels support synchronous playback and smart search (search for video that was recorded because motion was detected in a selected area).

Privacy Masking

- Conceal up to 4 areas of a scene from viewing and recording.

Safety Features

- Configurable motion detection and camera tamper detection settings, including configurable alarm alerts, such as automatic emails (with attached video or snapshot) and automatic alerts (such as buzzers or flashing lights).
- 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 720p/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.



HRHM1041



HRHH2042; HRHH1081; HRHH1083;
HRHH2082; HRHH2086; HRHH1161;
HRHH1163; HRHH1166

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FEATURES

Immediately Detect and Respond to Events

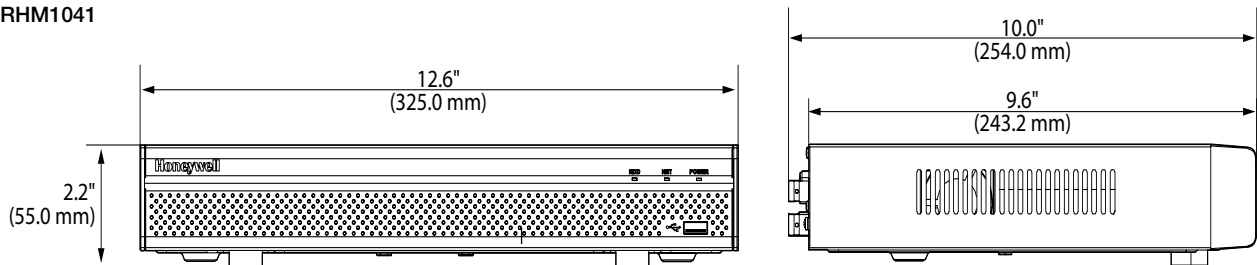
The Performance Series HQA 720p/1080p DVRs can be configured to automatically detect and respond to events such as motion in the scene, alarm inputs, a network failure and/or tampering. Automated responses include:

- 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 available to distribute to authorities.
- Enabling a visual or auditory notification (a flashing light, bell or siren).

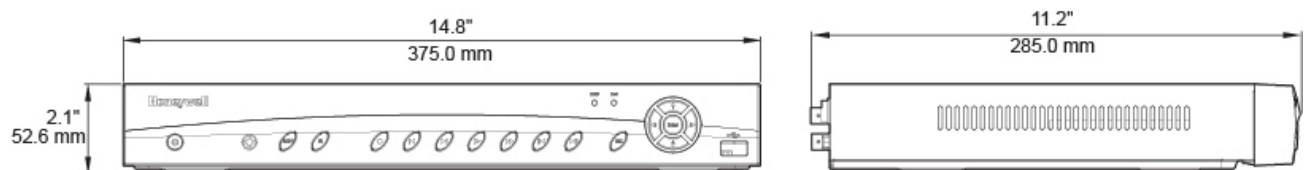


DIMENSIONS

HRHM1041



HRHH2042; HRHH1081; HRHH1083; HRHH2082; HRHH2086; HRHH1161; HRHH1163; HRHH1166



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SPECIFICATIONS

System	
Main processor	Embedded processor
Operating System	Embedded LINUX
Video	
Inputs	4-channel DVRs: 4 channels BNC 8-channel DVRs: 8 channels BNC 16-channel DVRs: 16 channels BNC
HQA Standard	1080p/720p HQA Up-the-COAX control supported
Analog Standard	NTSC/PAL: CVBS, including 960H
Audio	
Input	4 channel, RCA
Output	1 channel, RCA
Two-way communication	Reuse audio input/output channel 1
Display	
Interface	1 HDMI; 1 VGA
Resolution	1920 x 1080; 1280 x 1024; 1280 x 720; 1024 x 768; 800 x 600
Display Split	4-channel DVRs: 1/4 8-channel DVRs: 1/4/8/9 16-channel DVRs: 1/4/8/9/16
Privacy Masking	4 rectangular zones for each camera
OSD	Camera title; Time; Video loss; Camera lock; Motion detection; Recording
Recording	
Compression	H.264 / G.711
Resolution	1080p: (1920 x 1080); 720p (1280 x 720); 960H (960 x 576; 960 x 480); D1 (704 x 576 / 704 x 480); 4CIF (704 x 576; 704 x 480); CIF (352 x 288; 352 x 240); QCIF (176 x 144; 176 x 120)
Main Stream Recording Rate	HRHM104: 50/60fps @ 1080p; 100/120fps @ 720p, 960H, 4CIF, CIF HRHH204: 100/120fps @ 1080p, 720p, 960H, 4CIF, CIF HRHH108: 100/120fps @ 1080p; 200/240fps @ 720p, 960H, 4CIF, CIF HRHH208: 200/240fps @1080p, 720p, 960H, 4CIF, CIF HRHH116: 200/240fps @ 1080p; 400/480fps @ 720p, 960H, 4CIF, CIF
Secondary Stream Recording Rate	Up to 12/15 fps per channel @ 4CIF; 25/30 fps per channel @ CIF/QCIF
Bit rate	1080p / 720p DVRs: 48 to 4096 kbps 1080p DVRs: 48 to 6144 kbps
Recording Mode	Manual; Schedule (Regular [Continuous], Motion Detection); Alarm (for alarm-triggered recording); Stop
Pre-Recording Interval	1 to 30 seconds
Post-Recording Interval	10 to 300 seconds
Video Detection and Alarms	
Trigger Events	Recording; Tour; Video push; Email; FTP; Spot; Buzzer; Screen Tips
Video Detection	Motion Detection; Motion Detection Zones (396: 22 x 18); Video Loss; Camera Blank
Alarm Input	4-channel DVRs: 4 channels HRHH108: 8 channels HRHH208: 16 channels 16-channel DVRs: 16 channels
Relay Output	3 channels

Playback and Backup	
Sync Playback	4-channel DVRs: 1/4 8-channel DVRs: 1/4/9 16-channel DVRs: 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; Repeat; Shuffle; Backup selection; Digital zoom
Backup Mode Compatibility	USB Device; Network
Network	
Ethernet	HRHM104: 1 x RJ-45 port (10/100 Mbps) All other DVRs (including HRHH2042): 1 x RJ-45 port (10/100/1000 Mbps)
Network Function	HTTP; TCP/IP; IPv4/IPv6; UPnP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP filter; PPPoE; DDNS; FTP; IP filter, P2P
Maximum number of users	128 users
Smart phone compatibility	iPhone; iPad; Android (phone and tablet)
Storage	
Internal Storage	HRHM104: 1 SATA port; up to 4 TB All other DVRs (including HRHH2042): 2 SATA ports; up to 8 TB
Auxiliary Interface	
USB	2 ports (1 on rear panel), USB 2.0
RS232	1 port, for PC communication and keyboard (not available on 4-channel DVRs)
RS485	1 port, for PTZ control
Electrical	
Power Supply	HRHM104: 12 V DC; 2 A All other DVRs (including HRHH2042): 12 V DC; 5 A
Power Consumption	HRHM104: 10 W (without HDD) All other DVRs (including HRHH2042): 15 W (without HDD)
Environmental	
Operating Temperature	14°F to 131°F (-10°C to 55°C)
Humidity	10% to 90%
Physical	
Dimensions	HRHM104: 12.6x10.0x2.2 inches (325x254x55 mm) All other DVRs (including HRHH2042): 14.8x11.2x2.1 inches (375x285x52.6 mm)
Weight (without HDD)	HRHM104: 3.3 pounds (1.55 kg) All other DVRs: 5.2 pounds (2.35 kg)
Regulatory	
Emissions	FCC Part 15B, CE EN55022
Immunity	CE EN50130-4
Safety	EU: EN60950-1
RoHS	EN 50581

* 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 naturally protocols will mature over time.

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ORDERING

Ordering – Performance Series HQA DVRs

	Model Number	Description
4-channel DVRs	HRHM1041	720p, 4-channel, 1 TB, HQA Pure DVR
	HRHH2042	1080p, 4-channel, 2 TB, HQA/SD* Hybrid DVR
8-channel DVRs	HRHH1081	720p, 8-channel, 1 TB, HQA/SD* Hybrid DVR
	HRHH1083	720p, 8-channel, 3 TB, HQA/SD* Hybrid DVR
	HRHH2082	1080p, 8-channel, 2 TB, HQA/SD* Hybrid DVR
	HRHH2086	1080p, 8-channel, 6 TB, HQA/SD* Hybrid DVR
16-channel DVRs	HRHH1161	720p, 16-channel, 1 TB, HQA/SD* Hybrid DVR
	HRHH1163	720p, 16-channel, 3 TB, HQA/SD* Hybrid DVR
	HRHH1166	720p, 16-channel, 6 TB, HQA/SD* Hybrid DVR

*Standard Definition

Recommended Accessories – Honeywell Performance Series HQA Cameras

HD29HD1	TDN Indoor IR Ball Camera, 1/2.9" 1 MP CMOS, 720p, 30 fps (25 fps), 3.6 mm Fixed Lens, 12 IR LEDs, 12 V DC, NTSC (PAL)
HD30HD1	TDN Indoor/Outdoor IR Ball Camera, 1/2.9" 1 MP CMOS, 720p, 30 fps (25 fps), 3.6 mm Fixed Lens, 12 IR LEDs, 12 V DC, NTSC (PAL)
HB74HD1	TDN Indoor/Outdoor IR Bullet Camera, 1/2.9" 1 MP CMOS, 720p, 30 fps (25 fps), 3.6mm Fixed Lens, 12 V DC, NTSC (PAL)
HD73HD1	TDN Indoor/Outdoor IR Mini Dome Camera, 1/2.9" 1 MP CMOS, 720p, 30 fps (25 fps), 2.7–12 mm VFMI Lens, 2 IR LEDs, 12 V DC, NTSC (PAL)
HB75HD1	TDN Indoor/Outdoor IR Bullet Camera, 1/2.9" 1 MP CMOS, 720p, 30 fps (25 fps), 2.7-12mm VFMI Lens, 12 V DC, NTSC (PAL)
HD30HD2	TDN Indoor/Outdoor IR Ball Camera, 1/2.8" 2.4 MP CMOS, 1080p, 30 fps (25 fps), 3.6 mm Fixed Lens, 12 IR LEDs, 12 V DC, NTSC (PAL)
HB74HD2	TDN Indoor/Outdoor IR Bullet Camera, 1/3" 2 MP CMOS, 1080p, 30 fps (25 fps), 3.6 mm Fixed Lens, 24 IR LEDs, 12 V DC, NTSC (PAL)
HD73HD2	TDN Indoor/Outdoor IR Mini Dome Camera, 1/2.8" 2.4 MP CMOS, 1080p, 30 fps (25 fps), 2.7–12 mm VFMI Lens, 2 IR LEDs, 12 V DC, NTSC (PAL)
HB75HD2	TDN Indoor/Outdoor IR Bullet Camera, 1/2.8" 2.4 MP CMOS, 1080p, 30 fps (25 fps), 2.7–12 mm VFMI Lens, 24 IR LEDs, 12 V DC, NTSC (PAL)

NOTE: Honeywell reserves the right, without notification, to make changes in product design or specifications.
Honeywell's HQA system is compatible with 3rd party standard HDCVI product.

For more information:

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