

## Performance Series HQA DVRs

www.honeywellvideo.com

### 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 (4 TB each).
- 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

# Performance Series HQA DVRs

www.honeywellvideo.com

## FEATURES

### Immediately Detect and Respond to Events

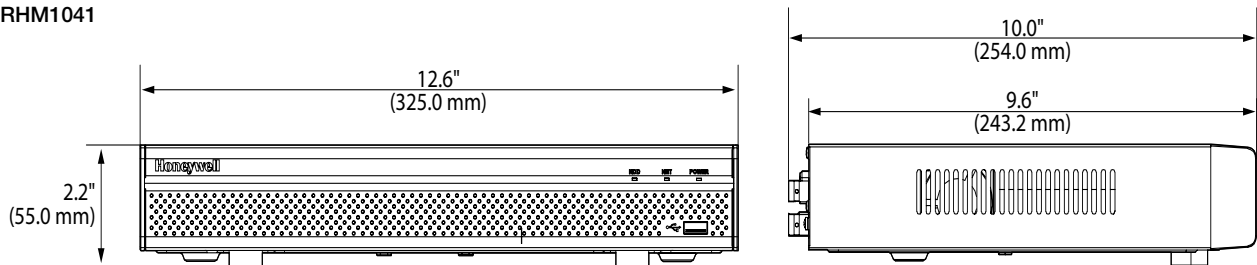
The Performance Series HQA 720p/1080p DVRs can be configured to automatically detect and respond to events such as motion in the scene, alarm inputs, a network failure and/or tampering. Automated responses include:

- 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).

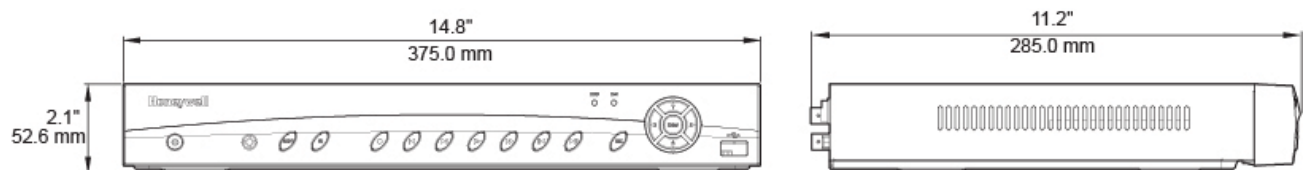


## DIMENSIONS

HRHM1041



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



# Performance Series HQA DVRs

www.honeywellvideo.com

## SPECIFICATIONS

System	
Main processor	Embedded processor
Operating System	Embedded LINUX
Video	
Inputs	<b>4-channel DVRs:</b> 4 channels BNC <b>8-channel DVRs:</b> 8 channels BNC <b>16-channel DVRs:</b> 16 channels BNC
HQA Standard	1080p/720p HQA Up-the-COAX control supported
Analog Standard	<b>NTSC/PAL:</b> 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	<b>4-channel DVRs:</b> 1/4 <b>8-channel DVRs:</b> 1/4/8/9 <b>16-channel DVRs:</b> 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	<b>1080p:</b> (1920 x 1080); <b>720p</b> (1280 x 720); 960H (960 x 576; 960 x 480); <b>D1</b> (704 x 576 / 704 x 480); <b>4CIF</b> (704 x 576; 704 x 480); <b>CIF</b> (352 x 288; 352 x 240); <b>QCIF</b> (176 x 144; 176 x 120)
Main Stream Recording Rate	<b>HRHM104:</b> 50/60fps @ 1080p; 100/120fps @ 720p, 960H, 4CIF, CIF <b>HRHH204:</b> 100/120fps @ 1080p, 720p, 960H, 4CIF, CIF <b>HRHH108:</b> 100/120fps @ 1080p; 200/240fps @ 720p, 960H, 4CIF, CIF <b>HRHH208:</b> 200/240fps @1080p, 720p, 960H, 4CIF, CIF <b>HRHH116:</b> 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	<b>1080p / 720p DVRs:</b> 48 to 4096 kbps <b>1080p DVRs:</b> 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	<b>4-channel DVRs:</b> 4 channels <b>HRHH108:</b> 8 channels <b>HRHH208:</b> 16 channels <b>16-channel DVRs:</b> 16 channels
Relay Output	3 channels

Playback and Backup	
Sync Playback	<b>4-channel DVRs:</b> 1/4 <b>8-channel DVRs:</b> 1/4/9 <b>16-channel DVRs:</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; Repeat; Shuffle; Backup selection; Digital zoom
Backup Mode Compatibility	USB Device; Network
Network	
Ethernet	<b>HRHM104:</b> 1 x RJ-45 port (10/100 Mbps) <b>All other DVRs (including HRHH2042):</b> 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	<b>4-channel DVRs:</b> 1 SATA port; up to 4 TB <b>8- /16-channel DVRs:</b> 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	<b>HRHM104:</b> 12 V DC; 2 A <b>All other DVRs (including HRHH2042):</b> 12 V DC; 5 A
Power Consumption	<b>HRHM104:</b> 10 W (without HDD) <b>All other DVRs (including HRHH2042):</b> 15 W (without HDD)
Environmental	
Operating Temperature	14°F to 131°F (-10°C to 55°C)
Humidity	10% to 90%
Physical	
Dimensions	<b>HRHM104:</b> 12.6x10.0x2.2 inches (325x254x55 mm) <b>All other DVRs (including HRHH2042):</b> 14.8x11.2x2.1 inches (375x285x52.6 mm)
Weight (without HDD)	<b>HRHM104:</b> 3.3 pounds (1.55 kg) <b>All other DVRs:</b> 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.

# Performance Series HQA DVRs

www.honeywellvideo.com

## ORDERING

### Ordering – Performance Series HQA DVRs

	Model Number	Description
4-channel DVRs	HRHM1041	720p, 4-channel, 1 TB, HQA Pure DVR, NTSC
	HRHM1041X	720p, 4-channel, 1 TB, HQA Pure DVR, PAL
	HRHH2042	1080p, 4-channel, 2 TB, HQA/SD* Hybrid DVR, NTSC
	HRHH2042X	1080p, 4-channel, 2 TB, HQA/SD* Hybrid DVR, PAL
8-channel DVRs	HRHH1081	720p, 8-channel, 1 TB, HQA/SD* Hybrid DVR, NTSC
	HRHH1081X	720p, 8-channel, 1 TB, HQA/SD* Hybrid DVR, PAL
	HRHH1083	720p, 8-channel, 3 TB, HQA/SD* Hybrid DVR, NTSC
	HRHH1083X	720p, 8-channel, 3 TB, HQA/SD* Hybrid DVR, PAL
	HRHH2082	1080p, 8-channel, 2 TB, HQA/SD* Hybrid DVR, NTSC
	HRHH2082X	1080p, 8-channel, 2 TB, HQA/SD* Hybrid DVR, PAL
	HRHH2086	1080p, 8-channel, 6 TB, HQA/SD* Hybrid DVR, NTSC
	HRHH2086X	1080p, 8-channel, 6 TB, HQA/SD* Hybrid DVR, PAL
16-channel DVRs	HRHH1161	720p, 16-channel, 1 TB, HQA/SD* Hybrid DVR, NTSC
	HRHH1161X	720p, 16-channel, 1 TB, HQA/SD* Hybrid DVR, PAL
	HRHH1163	720p, 16-channel, 3 TB, HQA/SD* Hybrid DVR, NTSC
	HRHH1163X	720p, 16-channel, 3 TB, HQA/SD* Hybrid DVR, PAL
	HRHH1166	720p, 16-channel, 6 TB, HQA/SD* Hybrid DVR, NTSC
	HRHH1166X	720p, 16-channel, 6 TB, HQA/SD* Hybrid DVR, PAL

\*Standard Definition

### Recommended Accessories – Honeywell Performance Series HQA Cameras

HD29HD1(X)	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(X)	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(X)	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(X)	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(X)	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(X)	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(X)	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(X)	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(X)	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.

### For more information:

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

### Automation and Control Solutions

Honeywell Security Products Americas  
2700 Blankenbaker Pkwy, Suite 150  
Louisville, KY 40299  
1.800.323.4576  
[www.honeywell.com](http://www.honeywell.com)



L/PSHQADVDR/D  
March 2015  
© 2015 Honeywell International Inc.