

## Hybrid 4 MP DVRs

Supercharge your analog security system with Honeywell's HQA (High Quality Analog) technology for High Definition 4 MP 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 Hybrid 4 MP 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 4 MP full frame rate preview.
- Record all channels @ 4 MP 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

- Internal storage: 4-Channel DVRs available with 1 or 2 TB storage (1 HDD). 8-Channel DVRs available with 2 or 4 TB storage (2 HDDs). 16-Channel DVRs available with 2, 4, 6 or 12 TB storage (2 HDDs).
- 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.

### 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).



*HRHT4041; HRHT4042*



*HRHT4082; HRHT4084; HRHT4162;  
HRHT4164; HRHT4166; HRHT41612*

### 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 4MP 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.

# Hybrid 4 MP DVRs

## FEATURES

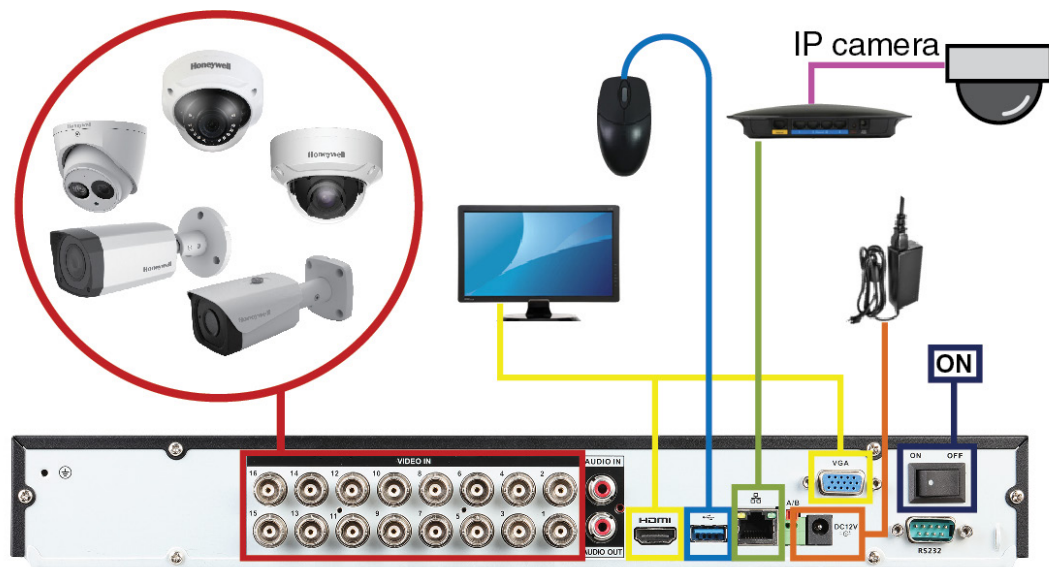
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### Immediately Detect and Respond to Events

The Performance Series HQA 4 MP 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.



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## SPECIFICATIONS

SYSTEM	
MAIN PROCESSOR	Embedded processor
OPERATING SYSTEM	Embedded Linux
VIDEO	
INPUTS	4-channel DVRs: 4 Channels HQA; 2 Channels IP 8-channel DVRs: 8 Channels HQA; 4 Channels IP 16-channel DVRs: 16 Channels HQA; 8 Channels IP
HQA STANDARD	4 MP HQA Up-the-Coax control supported
ANALOG STANDARD	NTSC/PAL: CVBS, including 960H
AUDIO	
AUDIO INPUT/OUTPUT	1/1
TWO-WAY COMMUNICATION	1 channel input/1 channel output, RCA
DISPLAY	
INTERFACE	1 HDMI (up to 3840 x 2160); 1 VGA
RESOLUTION	3840 x 2160, 2560 x 1440, 1920 x 1080; 1280 x 1024; 1280 x 720; 1024 x 768
DISPLAY SPLIT	4-channel DVRs: 1/4/6 8-channel DVRs: 1/4/8/9/16 16-channel DVRs: 1/4/8/9/16/25
OSD	Camera title; Time; Video loss; Camera lock; Motion detection; Recording
RECORDING	
COMPRESSION	H.264+ / H.264
RESOLUTION	4 MP (2560 x 1440); 1080p (1920 x 1080); 720p (1280 x 720); 960H (960 x 576/960 x 480); D1 (704 x 576 / 704 x 480); HD1 (352 x 576 / 352 x 480); BCIF (704 x 288/704 x 240); CIF (352 x 288 / 352 x 240); QCIF (176 x 144; 176 x 120)
MAIN STREAM RECORDING RATE	1 - 15 fps (4 MP); 1 - 25/30 fps (1080p/720p/960H/D1/HD1/BCIF/CIF/QCIF)
SECONDARY STREAM RECORDING RATE	1 - 15 fps (D1/CIF/QCIF)
BIT RATE*	8 to 6144 Kbps
RECORDING MODE	Auto (Regular, Motion Detection, Video Loss, Tampering, Alarm, Intelligence); Manual; Stop
RECORDING INTERVAL	1 to 60 minutes (default: 60 minutes)
PRE-RECORDING INTERVAL	1 to 30 seconds
POST-RECORDING INTERVAL	10 to 300 seconds
VIDEO DETECTION AND ALARMS	
TRIGGER EVENTS	Recording; PTZ; Tour; Email; FTP; Spot; Buzzer; Screen Tips
VIDEO DETECTION	Motion Detection; Video Loss; Video Tampering, Diagnosis
PLAYBACK AND BACKUP	
SYNC PLAYBACK	4-channel DVRs: 1/4 8-/16-channel DVRs: 1/4/9/16
SEARCH MODE	Time/Date; Alarm; Motion Detection; Exact Search (accurate to a second); Intelligence; 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

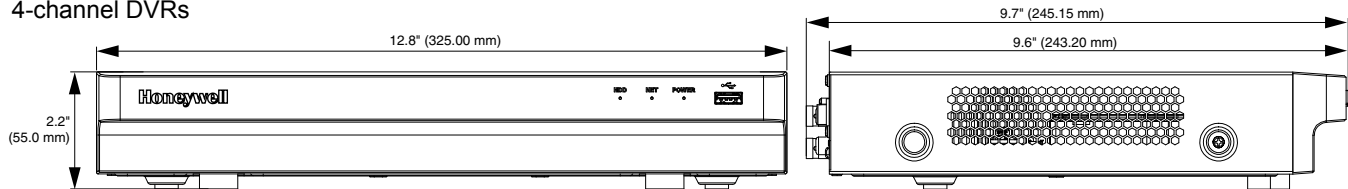
NETWORK	
ETHERNET	1 x RJ-45 port (1000 Mbps)
NETWORK FUNCTION**	HTTP; TCP/IP; IPv4/IPv6; UPnP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP filter; PPPoE; DDNS; FTP; IP Search
MAXIMUM NUMBER OF USERS	128 users
MOBILE DEVICE COMPATIBILITY	iPhone; iPad; Android (phone and tablet)
STORAGE	
INTERNAL STORAGE	4-channel DVRs: 1 SATA port; up to 8 TB 8-/16-channel DVRs: 2 SATA ports; up to 16 TB
AUXILIARY INTERFACE	
USB	2 ports: 1 USB 2.0; 1 USB 3.0
RS232	1 port, for PC communication and keyboard
RS485	1 port, for PTZ control
ELECTRICAL	
POWER SUPPLY	4-channel DVRs: 12 V DC, 2 A 8-channel DVRs: 12 V DC, 4 A 16-channel DVRs: 12 V DC, 5 A
POWER CONSUMPTION	15 W (without HDD)
ENVIRONMENTAL	
OPERATING TEMPERATURE	14°F to 131°F (-10°C to 55°C)
STORAGE TEMPERATURE	14°F to 131°F (-10°C to 55°C)
HUMIDITY	0% to 90%
PHYSICAL	
DIMENSIONS	4-channel DVRs: 12.8 x 9.7 x 2.2 in. (325 x 245 x 55 mm) 8-/16-channel DVRs: 14.8 x 10.9 x 2.1 in. (375 x 277 x 53 mm)
WEIGHT (WITHOUT HDD)	4-channel DVRs: 3.3 lb (1.55 kg) 8-/16-channel DVRs: 5.2 lb (2.35 kg)
REGULATORY	
EMISSIONS	FCC Part 15B, EN 55032
IMMUNITY	EN 50130-4
SAFETY	UL 60950-1; EN 60950-1
RoHS	EN 50581

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

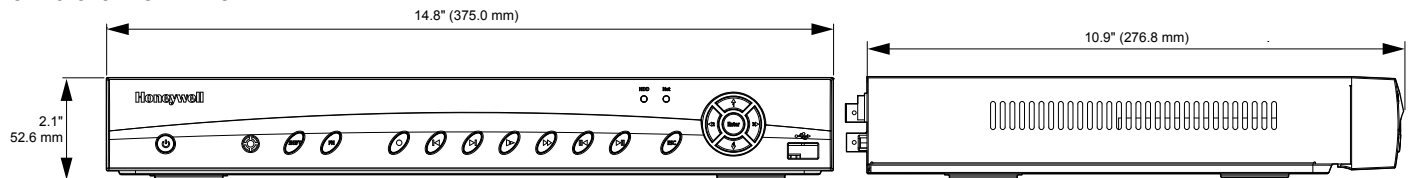
\*\* Some development might be required in specific user cases to support some of these protocols in the field as naturally protocols will mature over time.

# Hybrid 4 MP DVRs

HRHT4041; HRHT4042  
4-channel DVRs



HRHT4082; HRHT4084; HRHT4162; HRHT4164; HRHT4166; HRHT41612  
8-/16-channel DVRs



## ORDERING

4-CHANNEL DVRs	
HRHT4041	4 MP, 4-channel, 1 TB, 1 SATA, HQA/CVBS*/IP Hybrid DVR, NTSC
HRHT4042	4 MP, 4-channel, 2 TB, 1 SATA, HQA/CVBS*/IP Hybrid DVR, NTSC
8-CHANNEL DVRs	
HRHT4082	4 MP, 8-channel, 2 TB, 2 SATA, HQA/CVBS*/IP Hybrid DVR, NTSC
HRHT4084	4 MP, 8-channel, 4 TB, 2 SATA, HQA/CVBS*/IP Hybrid DVR, NTSC
16-CHANNEL DVRs	
HRHT4162	4 MP, 16-channel, 2 TB, 2 SATA, HQA/CVBS*/IP Hybrid DVR, NTSC
HRHT4164	4 MP, 16-channel, 4 TB, 2 SATA, HQA/CVBS*/IP Hybrid DVR, NTSC
HRHT4166	4 MP, 16-channel, 6 TB, 2 SATA, HQA/CVBS*/IP Hybrid DVR, NTSC
HRHT41612	4 MP, 16-channel, 12 TB, 2 SATA, HQA/CVBS*/IP Hybrid DVR, NTSC

RECOMMENDED ACCESSORIES	
HONEYWELL PERFORMANCE SERIES HQA CAMERAS	
HD30HD4	Ball, 4 MP, HQA, IR, 3.6 mm, 12 V DC, NTSC
HD72HD4	Vandal Dome, 4 MP, HQA, IR, 2.8 mm, 12 V DC, IK10, NTSC
HD274HD4	Vandal Dome, 4 MP, HQA, IR, 2.7-12 mm, MFZ, 12 V DC/24 V AC, IP66, IK10, NTSC
HB74HD4	Bullet, 4 MP, HQA, IR, 3.6 mm, 12 V DC, IP66, NTSC
HB276HD4	Bullet, 4 MP, HQA, IR, 2.7-12 mm, MFZ, 12 V DC/24 V AC, IP66, NTSC

\*Standard definition

### For more information

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

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