HRG Performance Series DVR

400 IPS (PAL) 4, 8, 16 CHANNEL EMBEDDED DIGITAL VIDEO RECORDER

The HRG series digital video recorder (DVR) offers clear crisp video using H.264 video compression and supports a high-end feature set that exceeds the needs of many surveillance applications at a very economical price.

Recording at a rate of up to 400 (16ch), 200 (8ch), or 100 (4ch) images per second 4CIF real-time PAL video, the HRG DVR supports a wide variety of capabilities such as smartphone remote access (apps for Apple iPhone®, iPad® and Android), mouse control, IR remote control, and multiple search engines to quickly find the video evidence. In addition to remote access from iPhone®, iPad® and Android devices, HRG can be remotely accessed via a Web browser or by using multi-site remote access software.

The HRG has two USB ports which enable intuitive mouse control and simultaneous DVR operations such as backing up video evidence files onto USB media. A viewer is included with each clip, making it easy for investigators to view video evidence. The HRG DVR range supports continuous and event recording and is configurable per channel. HRG can also be configured for motion detected recording, allowing maximum storage efficiency.

Market Opportunities

Supporting an advanced feature set and low pricing, HRG is an ideal DVR for a wide variety of surveillance applications including small- to medium-sized retail outlets, apartment buildings, warehouses, and educational facilities. HRG is well suited to support applications that rely on capturing maximum detail of activity through building entrances and exits, and clear video playback.

Remote access from mobile and fixed locations opens up many new application possibilities for HRG. Users on the move in this highly mobile society can check in on their businesses from virtually any location with Internet access.
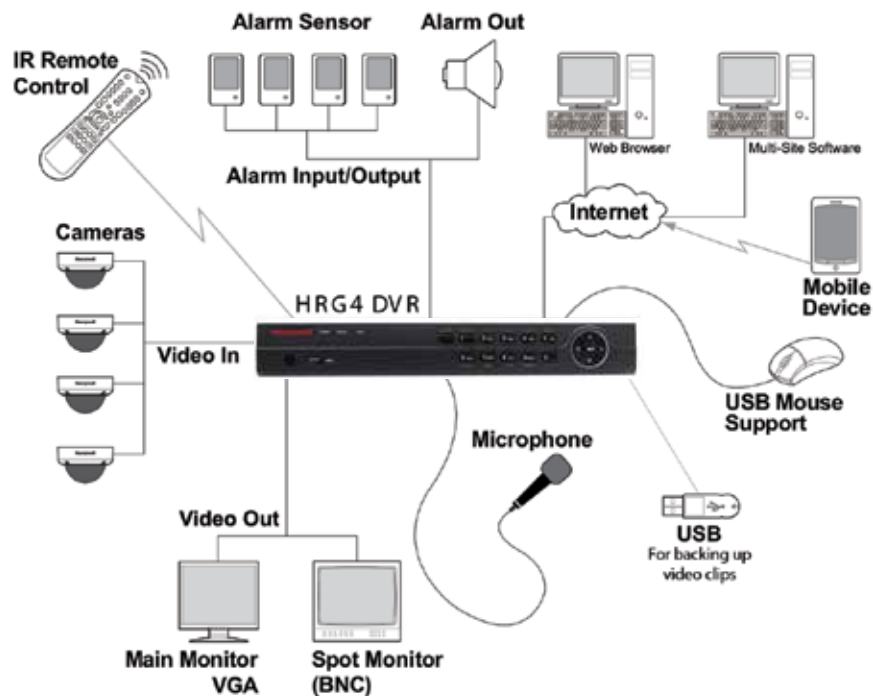
Features

- H.264 video compression
- 4CIF resolution @ real-time record rates
- 4, 8, or 16 video inputs
- 4 audio inputs, 1 audio output
- Remote access from iPhone®, iPad® and Android devices
- Remote access via Internet Explorer web browser and multi-site software
- Continuous recording during playback and during transmission to remote site
- Infrared Remote Control included
- Mouse included for DVR control via front panel
- 2 (front & rear panel) USB 2.0 ports
- PTZ dome control for a wide variety of protocols
- Self-diagnostics including hard disk drive S.M.A.R.T. monitoring
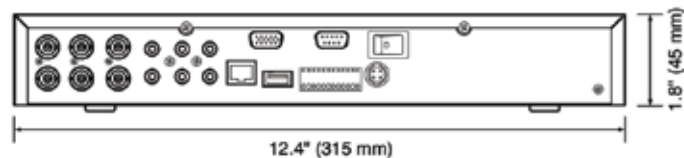- Multilanguage support on Local GUI
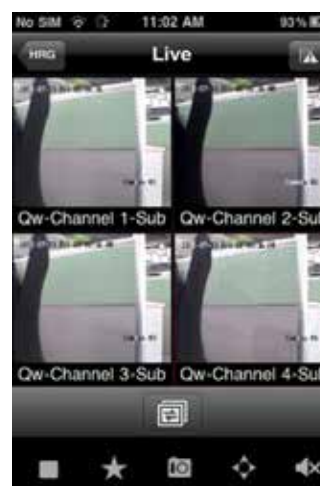
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DRAWINGS

System Diagram

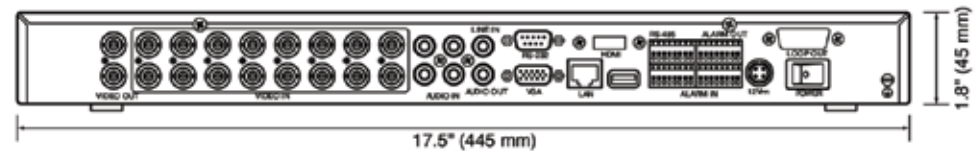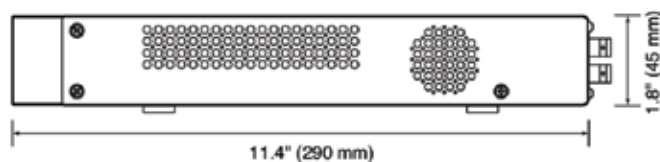**4-Channel DVR Rear View** — 12.4" (315 mm), 1.8" (45 mm)

4-Channel DVR Side View — 9.1" (230 mm), 1.8" (45 mm)
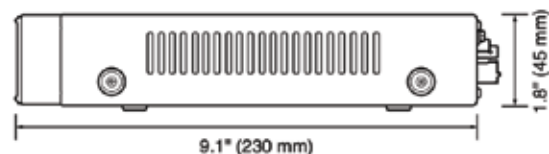
8/16-Channel DVR Rear View (16-channel DVR shown) — 17.5" (445 mm), 1.8" (45 mm)

8/16-Channel DVR Side View — 11.4" (290 mm), 1.8" (45 mm)

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SPECIFICATIONS

Remote Access	
Maximum Sessions per HRG recorder	24 simultaneous connections: live view, search, playback
Administration: DVR configuration	One at a time
PTZ control	One at a time controlling PTZ
Compatibility	Windows XP, Windows 7 Mobile apps: Apple iPhone®, iPad® and Android

Recorder Unit	
Video Standard	NTSC or PAL software selectable
Colour Control	Brightness, contrast, saturation, and hue
Recording and Transmission Compression Algorithm	H.264
Record Mode	(FIFO) Continuous buffer
Recording Capacity	Hard drive capacities up to 4TB, see ordering section for details
Recording Rate @ 4CIF(Global)	Up to 400 ips (PAL), model dependant
Video Resolution Settings	Main stream: 4CIF/2CIF/CIF Sub stream: CIF/QCIF
Video Motion Detection	Configurable zone detection area and sensitivity
Event Recording and Reporting	Input via alarm i/p contacts, and motion
Reporting via alarm o/p contact	Email notification
Removable Media	2 - USB ports
Still Image	JPEG file using Remote Access
Front Panel Control	Intuitive operation supports IR Remote Control and mouse
DHCP Enabled	DHCP or Static IP entry
Port number set-up	Individual entries for Server, HTTP, SMTP
PTZ Protocols Support	Supports multiple PTZ protocols
Language Support	English, French, German, Italian, Spanish (EU), Dutch

Connections	
Video Input	4/8/16, BNC 1 Vp-p @ 75 ohms
Video Output	1 - Composite main monitor, BNC 1 Vp-p @ 75 ohms 1 - VGA Main Monitor 1 - Spot BNC 1 Vp-p @ 75 ohms
Audio Input/Output	Input: 4 channel, line level Output: 1 channel, line level
Sensor Inputs General Purpose	4 inputs (4ch) – terminal block 8 inputs (8ch) – terminal block 16 inputs (16ch) – terminal block
Control Outputs	1 – relay out (4ch); NC/NO terminal block 4 – relay out (8 & 16ch); NC/NO terminal block
Serial Ports	2 – USB (2.0) ports: one via front panel and another via rear panel 1 – RS485 terminal block 1 – RS232
Primary Storage	SATA HDD
Networking	RJ45 10M/100M self-adaptive Ethernet interface

Electrical	
Input Voltage	12 VDC power adapter
Power Consumption	HRG4 and HRG8 25 W (max) HRG16 30 W (max)

Mechanical	
Dimensions (W x D x H)	4ch unit: 315 × 230 × 45 mm (12.4 × 9.1 × 1.8 in.) 8/16ch unit: 445 × 290 × 45 mm (17.5 × 11.4 × 1.8 in.)
Weight	HRG4: 2.6 kg (5.7 lbs) HRG8 and HRG16: 4.6 kg (10.1 lbs)
Construction Housing:	Steel chassis

Environmental	
Temperature	Operating: −10°C to 55°C (32°F to 104°F) Storage: −30°C to 80°C (−22°F to 176°F)
Relative Humidity	10% to 90%, non-condensing

Regulatory	
Emissions	FCC Part 15B, Class A
Immunity	EN50130-4:2011+A1:1998+A2:2003 EN 55022: 2010 EN 61000-3-2: 2006 + A1: 2009 + A2: 2009 EN 61000-3-3: 2008
Safety	EN 60950-1:2006+A11:2009+A1:2010 +A12:2011 CSA/UL 60950-1, 2nd Edition

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

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ORDERING

Recommended Accessories	
Monitors	
HMLCD19LX	19" L-Series Colour LCD Monitor (VGA)
HMLCD17LX	17" L-Series Colour LCD Monitor (VGA)
Cameras	
HB73PX	IR bullet, super high resolution, True Day/Night
HD73PX	Minidome, super high resolution, True Day/Night
HD70PX	Minidome, super high resolution, day/night, IR LEDs
ACUIX™	High-performance PTZ camera
Surge Protection	
HCSP1	Camera surge protector
HDSP1	PTZ dome surge protector

HRG HD for iPad

HRG for iPhone/iPad

Ordering	
HRG45X	Performance Series 4ch DVR, H.264 codec,100pps@4CIF, 500GB, 4 Audio In, USB, PAL
HRG41X	Performance Series 4ch DVR, H.264 codec,100pps@4CIF, 1TB, 4 Audio In, USB, PAL
HRG81X	Performance Series 8ch DVR, H.264 codec,200pps@4CIF, 1TB, 4 Audio In, USB, PAL
HRG82X	Performance Series 8ch DVR, H.264 codec,200pps@4CIF, 2TB, 4 Audio In, USB, PAL
HRG161X	Performance Series 16ch DVR, H.264 codec,400pps@4CIF, 1TB, 4 Audio In, USB, PAL
HRG162X	Performance Series 16ch DVR, H.264 codec,400pps@4CIF, 2TB, 4 Audio In, USB, PAL
HRG164X	Performance Series 16ch DVR, H.264 codec,400pps@4CIF, 4TB, 4 Audio In, USB, PAL

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please visit www.honeywell.com/security/uk

Honeywell Security Group
Aston Fields Road
Whitehouse Industrial Estate
Runcorn
Cheshire
WA7 3DL
Tel: 08448 000 235
www.honeywell.com

Honeywell