Performance Series

Embedded DVR

HRG4 HRG8 HRG16

User Guide

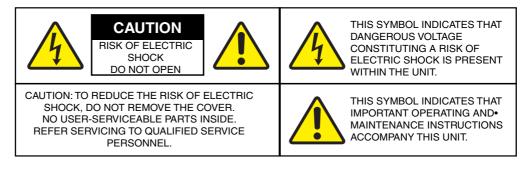
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User Guide

Revisions

Issue	Date	Revisions
A	08/2012	New document 800-12005V1 to replace 800-12005. Replaced various screen shots throughout to improve quality and legibility. Edited the system diagram. Replaced the front-panel photograph for the HRG8/HRG16 model, and rear-panel photographs of the HRG8 and HRG16 models.
		Added the Cautions and Warnings, Regulatory Statements, Safety Instructions, and Warranty and Service sections and the Specifications appendix.
		Added the About This Document chapter.
		Corrected the Operating Temperature range in the Specifications chapter.

Cautions and Warnings



Installation and servicing should be performed only by qualified and experienced technicians to conform to all local codes and to maintain your warranty.

CAUTION 12 VDC models require the use of CSA Certified/UL Listed Class 2 power adapters to ensure compliance with electrical safety standards.

Regulatory Statements

Information to the User: This equipment has been tested and found to comply with the limits for a Class A digital device. Pursuant to part 15 of the FCC Rules, these limits are designed to provide reasonable protection against harmful interference in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

CAUTION Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canadian Compliance Statement

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la Classe A est conforme à la norme NMB-003 du Canada.

North America

The equipment supplied with this guide conforms to UL 60950-1 and CSA C22.2 No. 60950-1.

Europe

The manufacturer declares that the equipment supplied is compliant with the essential requirements of the EMC directive 2004/108/EC, conforming to the requirements of standards EN 55022 for emissions, EN 50130-4 for immunity, and EN 60950 for Electrical Equipment safety.

Waste Electrical and Electronic Equipment (WEEE)



Correct Disposal of this Product (applicable in the European Union and other European countries with separate collection systems).

This product should be disposed of, at the end of its useful life, as per applicable local laws, regulations, and procedures.

Safety Instructions

BEFORE OPERATING OR INSTALLING THE UNIT, READ AND FOLLOW ALL INSTRUCTIONS.

AFTER INSTALLATION, retain the safety and operating instructions for future reference

- 1. HEED WARNINGS Adhere to all warnings on the unit and in the operating instructions.
- 2. INSTALLATION
 - · Install in accordance with the manufacturer's instructions.
 - Installation and servicing should be performed only by qualified and experienced technicians to conform to all local codes and to maintain your warranty.
 - Do not install the unit in an extremely hot or humid location, or in a place subject to dust or mechanical vibration. The unit is not designed to be waterproof. Exposure to rain or water may damage the unit.
 - Any wall or ceiling mounting of the product should follow the manufacturer's instructions and use a mounting kit approved or recommended by the manufacturer.
- POWER SOURCES This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your facility, consult your product dealer or local power company.
- 4. **HEAT** Situate away from items that produce heat or are heat sources such as radiators, heat registers, stoves, or other products (including amplifiers).
- 5. WATER AND MOISTURE Do not use this unit near water or in an unprotected outdoor installation, or any area classified as a wet location.
- 6. **MOUNTING SYSTEM -** Use only with a mounting system recommended by the manufacturer, or sold with the product.
- 7. **ATTACHMENTS** Do not use attachments not recommended by the product manufacturer as they may result in the risk of fire, electric shock, or injury to persons.
- 8. ACCESSORIES Only use accessories specified by the manufacturer.
- 9. **CLEANING** Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

- 10. **SERVICING** Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 11. **REPLACEMENT PARTS** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

Warranty and Service

Subject to the terms and conditions listed on the Product warranty, during the warranty period Honeywell will repair or replace, at its sole option, free of charge, any defective products returned prepaid.

In the event you have a problem with any Honeywell product, please call Customer Service at 1.800.796.CCTV for assistance or to request a **Return Merchandise Authorization (RMA)** number.

Be sure to have the model number, serial number, and the nature of the problem available for the technical service representative.

Prior authorization must be obtained for all returns, exchanges, or credits. **Items shipped to Honeywell without a clearly identified Return Merchandise Authorization (RMA) number may be refused.**

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About This Document

This document introduces the HRG Performance Series DVRs. It covers how to install and operate the HRG Performance Series DVRs.

This document is intended for system integrators, installers, and end-user operators.

Overview of Contents

This document contains the following chapters and appendixes:

- *Chapter 1, Introduction*, introduces the HRG Performance Series DVRs, the main features; the typical setup; the front panel, IR remote control, mouse, and virtual keyboard controls; and the back panel connections.
- Chapter 2, Getting Started, explains how to start up and shut down the DVR, how to reboot and lock the DVR, how to use the Setup Wizard for initial setup, and how to set the date and time.
- *Chapter 3, Live View*, describes the Live View on-screen display, how to use the mouse to control Live View, how to zoom in Live View, and how to configure the Live View display.
- Chapter 4, Recording Settings, explains how to configure recording settings and how to protect recorded files.
- Chapter 5, Playback, describes the playback interface, explains how to search recordings and the system log, and how to play back recorded video.
- *Chapter 6, Backup*, explains how to export files and video clips, and how to manage backup devices.
- Chapter 7, Alarm Settings, explains how to configure alarms, including motion detection, sensors, video loss and video tampering detection, and how to managed exception settings.
- Chapter 8, Network Settings, explains how to configure network settings, including email notification.
- Chapter 9, PTZ Control, explains PTZ configuration, including PTZ presets, patrols, and patterns.
- *Chapter 10, Camera Management*, explains OSD settings, image settings, and privacy mask settings.
- Chapter 11, Hard Drive Management, explains how to configure and manage hard drives.

- Chapter 12, HRG DVR Management, explains how to configure system settings such as language, time zone, date and time, mouse speed, and password; how to configure the RS-232 port, how to manage user accounts and system configuration; how to update the firmware; how to restore default settings; how to view system information and system logs.
- Appendix A, Glossary, explains commonly used terms in this guide.
- *Appendix B, Solutions*, provides possible solutions for resolving system malfunctions that may occur from time to time.
- The Index provides a searchable list for easy access to the document.

Related Documents

This document is a necessary prerequisite for understanding the [Product Name]. For more information, please refer to the following documents:

Document title	Part number	Description
Multi-Site 4200 Remote Viewing Software User Guide	800-12064	Describes how to use the remote viewing software for the HRG Performance Series DVRs.
HRG App for Apple iOS Devices User Guide	800-12168	Describes how to remotely access the HRG Performance Series DVRs via a wireless network connection.
HRG App for Android Devices User Guide	800-12218	Describes how to remotely access the HRG Performance Series DVRs via a wireless network connection.

Typographical Conventions

Font	What it represents	Example
Helvetica	Keys on the keyboard	Press Ctrl+C
Lucida	Values of editable fields that are mentioned in the body text of the document for reference purposes, but do not need to be entered as part of a procedure	The Time from field can be set to Hours:Minute:Seconds.
	Text strings displayed on the screen Syntax	The message Unauthorized displays. (object) entered

This document uses the following typographical conventions:

What it represents	Example Enter the password.	
Words or characters that you must type. The word "enter" is used if you must type text and then press the Enter or Return key.		
Menu titles and other items you select	Double-click Open from the File menu.	
Buttons you click to perform actions	Click Exit to close the program.	
Placeholders: words that vary depending on the situation	Enter your <i>user name</i> .	
Cross-reference to external source	Refer to the System Administrator Guide.	
Cross-reference within document	See Chapter 2, Installation.	
	Words or characters that you must type. The word "enter" is used if you must type text and then press the Enter or Return key. Menu titles and other items you select Buttons you click to perform actions Placeholders: words that vary depending on the situation Cross-reference to external source	

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1

Introduction

This chapter introduces the Honeywell HRG 4-Channel, 8-Channel, and 16-Channel Performance Series DVRs and provides an overview of how to operate the HRG DVR using various methods.

Overview

Developed using the latest technology, the Honeywell HRG Performance Series DVRs (HRG DVRs) combine the latest in advanced H.264 video encoding and decoding technologies to deliver high performance, rock-solid reliability, and longer recording times.

The Honeywell HRG DVRs can be used either as standalone video surveillance products or used to build a powerful surveillance network. This flexibility makes them perfect for small business applications.

Product Features

Feature Overview

- 4, 8, or 16 video inputs (model dependent).
- H.264 video compression with excellent reliability and superior definition.
- 4 audio inputs, 1 audio output.
- IR remote controller and mouse included
- Independent video encoding parameters, including frame rate, resolution, bit rate, and video quality.
- Remote access from iPhone and Android devices.
- Multi-site software.
- Recording rates up to 120 (4-channel), 240 (8-channel) and 480 (16-channel) ips @ 4CIF resolution.
- PTZ dome control.

Local Monitoring Features

- Up to 1280 × 1024 resolution for VGA output display.
- Simultaneous VGA and CVBS output.
- Multi-camera video live view, with an adjustable camera order.
- Group switch, manual switch, and automatic cycles modes that are selectable for video live view, with a configurable auto-cycle period.
- Digital zoom in live mode.
- Shield of assigned channels for live view.
- Privacy masking support.
- Multiple PTZ protocols support, including the setting and call up of presets, patrols, and patterns.
- Video image zoom-in by clicking the mouse and tracing by dragging the mouse in PTZ control mode.

Hard Disk Drive Management Features

- S.M.A.R.T. technology.
- HDD standby function.

Recording Features

- Cycle and non-cycle recording mode.
- Normal and event video encoding parameters.
- Multiple recording types, including manual, normal, alarm, motion, motion/alarm, and motion + alarm recording.
- Eight recording time periods, with separate recording types.
- Pre-record and post-record time intervals for alarm and motion detection, and pre-record time intervals for scheduled and manual recording.
- Lock and unlock video files.
- HDD can be set to read-only.
- Video data search and playback by channel number, recording type, and time.
- Digital zoom function in playback mode.
- Pause, fast forward play, slow play, skip forward, and skip backward available during playback.
- Up to 4/8/16-channel synchronous playback.

Backup Features

- Back up recorded files to a USB or SATA device.
- Bunch backup by file or by time.
- Recorded files edited for backup in playback.
- Management and maintenance for backup devices.

Alarm and Exception Features

- Configurable arming time for alarm in/out.
- Support of various exception alarm types, including: alarms for video loss, motion detection, video tampering, unmatched video in/out format, illegal access, network disconnection, IP conflict, hard disk error, and hard disk full.
- Support of various exception alarm handling methods, including: pop-up alarm image on the monitor, audible warnings, surveillance center notifications, alarm output triggers, and send emails.
- Auto recovery from exceptions.

Other Features

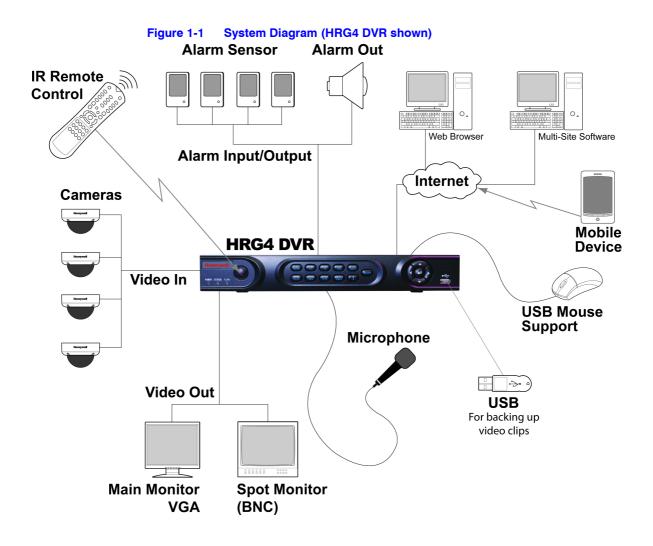
- Use a mouse or the IR remote control to control the HRG DVR.
- Three-level user management. Each user has individual operating permission for the HRG DVR and cameras.
- Powerful recording and searching of operation, alarm, and exception logs.
- Import/export of device configuration files.

Network Features

- 10M/100M adaptive network interface.
- TCP/IP protocol suites, PPPoE, DHCP, DNS, DDNS, NTP, SADP protocols.
- Unicast and multicast supported; TCP and UDP protocols applicable in unicast transmission.
- · Remote search, playback and download, lock/unlock of video files.
- Breakpoint resume support.
- Remote access and configuration of parameters; remote import/export of device configuration parameters.
- Remote access of device running status, system log, and alarm status.
- Remote formatting of hard disk, upgrade, reboot/shutdown, and other system maintenance operations.
- · Event alarm and exceptions upload to a remote management host.
- Remote video image capture in JPEG format.
- Remote PTZ control.
- Voice talk and broadcast.
- Built-in WEB Server.

System Diagram

Connect your HRG DVR as shown in Figure 1-1.



Operating the HRG DVR

You can use the following tools to navigate and operate your HRG DVR.

- the front panel controls (see Front Panel on page 26)
- the IR (Infrared) remote (see Using the IR Remote Control on page 29)
- a mouse (see Using a USB Mouse on page 30)
- the virtual keyboard (see Using the Virtual Keyboard on page 31)

Front Panel

Familiarize yourself with the front panel controls for your HRG DVR.

HRG4 Front Panel



Table 1-1 HRG4 Front Panel Controls and Indicators

Position	Control/Indicator	Function
1	Status Indicators	
	POWER	Turns green when the HRG DVR is on.
	STATUS	Illuminates when the compound key switches to numeric/letter input mode.
	Tx/Rx	Flickers green when the network connection is functioning normally.
2	IR Receiver	Sensor for IR Remote Controller.
3	Compound Buttons	
	1/MENU	Enter number "1"; Access the main menu.
	2/ABC/F1	Enter number "2" or letters "A", "B", "C"; The F1 button when used in a list field will select all items on the list. In PTZ Control mode, it will turn on/off PTZ light.
	3/DEF/F2	Enter number "3" or letters "D", "E", "F"; The F2 button is used to cycle through tab pages. It will also bring up the Channel and OSD Position settings.
	4/GHI/ESC	Enter number "4" or letters "G", "H", "I"; Exit and back to the previous menu.
	5/JKL/EDIT	Enter number "5" or letters "J", "K", "L"; Delete characters before cursor; Select the check box and ON/OFF switch; Start/stop record clipping in playback.
	6/MNO/PLAY	Enter number "6" or letters "M", "N", "O"; Playback, for direct access to playback interface.
	7/PQRS/REC	Enter number "7" or letters "P", "Q", "R", "S"; Manual record, for direct access to manual record interface; manually enable/disable record.
	8/TUV/PTZ	Enter number "8" or letters "T", "U", "V"; Access to PTZ control interface.
	9/WXYZ/PREV	Enter number "9" or letters "W", "X", "Y", "Z"; Multi-camera display in live view.
	0/A	Enter number "0"; Switch between input methods (upper and lowercase alphabet, symbols and numeric input).
4	SHIFT	Switches the compound keys functions from inputting the numeric/letter values to the functional controls.
5	Control Buttons	Directional buttons : In menu mode, the direction buttons are used to navigate between different fields and items and select setting parameters. In playback mode, the Up and Down buttons are used to speed up and slow down record play, and the Left and Right buttons are used to select the recording 30s forwards or backwards. In Live View mode, these buttons can be used to cycle through channels.
		Enter : The Enter button is used to confirm selection in the Menu mode; or used to select check box fields and ON/OFF switch. In playback mode, it can be used to play or pause the video. In single-frame play mode, pressing the Enter button advances the video by a single frame. And in auto sequence live view mode, the buttons can be used to pause / resume auto sequence.
6	USB Port	Connection for a USB mouse or USB flash memory device.

HRG8 and HRG16 Front Panel





Position	Button/Indicator	Function
1	USB Port	Connection for a USB mouse or USB flash memory device.
2	Status Indicators	
	POWER	Turns green when the HRG DVR is on.
	READY	Turns green when the device is running normally.
	STATUS	Illuminates when the compound key switches to numeric/letter input mode.
	ALARM	Turns red when there is a sensor alarm occurring.
	HDD	Flickers red when the HDD is reading or writing.
	Tx/Rx	Flickers green when the network connection is functioning normally.
3	IR Receiver	Sensor for IR Remote Controller.
4	Compound Buttons	
	1/MENU	Enter number "1"; Access the main menu.
	2/ABC/F1	Enter number "2" or letters "A", "B", "C"; The F1 button when used in a list field will select all items on the list. In PTZ Control mode, it will turn on/off PTZ light.
	3/DEF/F2/SPOT	Enter number "3" or letters "D", "E", "F"; The F2 button is used to cycle through tab pages. It will also bring up the Channel & OSD Position settings. SPOT - reserved at this time.
	4/GHI/ESC	Enter number "4" or letters "G", "H", "I"; Exit and back to the previous menu.
	5/JKL/EDIT	Enter number "5" or letters "J", "K", "L"; Delete characters before cursor; Select the check box and ON/OFF switch; Start/stop record clipping in playback.
	6/MNO/PLAY	Enter number "6" or letters "M", "N", "O"; Playback, for direct access to playback interface.
	7/PQRS/REC	Enter number "7" or letters "P", "Q", "R", "S"; Manual record, for direct access to manual record interface; manually enable/disable record.
	8/TUV/PTZ	Enter number "8" or letters "T", "U", "V"; Access to PTZ control interface.
	9/WXYZ/PREV	Enter number "9" or letters "W", "X", "Y", "Z"; Multi-camera display in live view.

Position	Button/Indicator	Function
	0/A	Enter number "0"; Switch between input methods (upper and lowercase alphabet, symbols and numeric input).
5	SHIFT	Switches the compound keys functions from inputting the numeric/letter values to the functional controls.
6	Control Buttons	Directional buttons : In menu mode, the direction buttons are used to navigate between different fields and items and select setting parameters. In playback mode, the Up and Down buttons are used to speed up and slow down record play, and the Left and Right buttons are used to select the recording 30s forwards or backwards. In Live View mode, these buttons can be used to cycle through channels.
		Enter : The Enter button is used to confirm a selection in the Menu mode; or used to select check box fields and the ON/OFF switch. In playback mode, it can be used to play or pause the video. In single-frame play mode, pressing the Enter button advances the video by a single frame. And in auto sequence live view mode, the buttons can be used to pause / resume auto sequence.

Using the IR Remote Control

Your HRG DVR may also be controlled with the IR remote control. Batteries (2 x AAA) must be installed before operation.

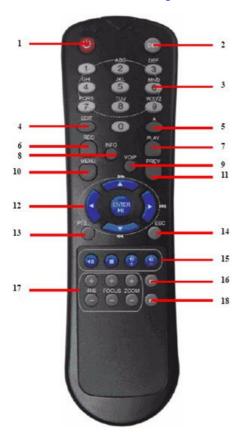


Figure 1-4 IR Remote Control

Та	Table 1-2 IR Remote Control		
#	Button	Function	
1	POWER	Turn On/Off the HRG DVR.	
2	DEV	Enable/Disable Remote Control	
3	Alphanumerics	Same as front panel	
4	EDIT	Same as JKL/EDIT on front panel.	
5	Α	Same as 0/A on front panel.	
6	REC	Same as 7/PQRS/REC on front panel.	
7	PLAY	Same as 6/MNO/PLAY on front panel.	
8	INFO	Reserved.	
9	VOIP	Same as 2/ABC/F1 on front panel.	
10	MENU	Same as 1/MENU on front panel.	
11	PREV	Same as 9/WXYZ/PREV on front panel.	
12	DIRECTION/ENTER	Same as on front panel.	
13	PTZ	Same as 8/TUV/PTZ on front panel.	
14	ESC	Same as ESC on front panel.	
15	RESERVED	Reserved.	
16	F1	Same as 2/ABC on front panel.	
17	PTZ CONTROL Buttons	Use to adjust the iris, focus, and zoom.	
18	F2	The F2 button is used to cycle through tab pages. It can also be used to enter the Channel and OSD Position settings.	

See *HRG4 Front Panel on page 27* and *HRG8 and HRG16 Front Panel on page 28* for more about front panel controls.

Configuring the IR Remote Control

Aim the remote control at the IR receiver located at the front of the unit to test operation. If there is no response, try the following steps:

- Use the front control panel or the mouse to navigate to Menu > Settings > General > More Settings.
- 2. Check and remember the HRG DVR ID number. The default ID number is **255**. This ID number is valid for all IR remote controls.
- 3. Press **DEV** on the remote.
- 4. Enter the DVR ID number from step 2.
- 5. Press ENTER on the IR remote control.

The Status indicator on the front panel should turn green to indicate that the remote control is operating properly.

Using a USB Mouse

A regular 3-button (Left/Right/Scroll-wheel) USB mouse can also be used with this HRG DVR.

Connecting a USB Mouse

Plug the USB mouse into one of the USB ports on the front panel of the HRG DVR.

The mouse should automatically be detected. If, in a rare case, that the mouse is not detected, pleased refer to the recommended device list from your provider.

USB Mouse Controls

Table 1-3	Mouse Controls	
Control	Action	Result
	Single click	Select a menu component, such as a button or an input field. This is similar to pressing the ENTER button on the remote/front panel controls.
	Double click	Switch between single screen and multi-screen mode in Live View/ Playback mode.
Left button	Click and drag	Click and drag the Left mouse button to control the pan/tilt of a PTZ camera as well as to vary the position of the digital zoom area and the camera OSD. It can also be used to setup the alarm areas.
Right button	Single click	Shows pop-up menu.
Scroll wheel	Scroll up	In Live View mode, scrolling up will switch to the previous screen. In Menu mode, it will move the selection to the previous item.
Scroll Wheel	Scroll down	In Live View mode, scrolling down will switch to the next screen. In Menu mode, it will move the selection to the next item.

Using the Virtual Keyboard

When a mouse is used to perform a task on the HRG DVR, clicking on a text input field brings up the Virtual Keyboard.

Figure 1-5	Virtual Keyl	ooard
Embedded	d Net DVR	@ >
ESC 1 2 3	45678	90
QWE	RTYUT	OP
ASC	FGHJI	a 🖬
a z x	CVBNM	-
\$	Space	Enter

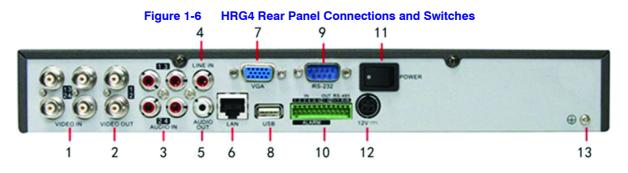
Table 1-4 Virtual Keyboard Controls

Virtual key	Name	Function
	Lowercase	Indicates that lowercase input is being used.
	Uppercase	Indicates that uppercase input is being used.
a	Switch to lowercase	Switch to lowercase input.
A	Switch to uppercase	Switch to uppercase input.
123	Number	Indicates that number input is being used.
- 9	Symbols	Switch to symbols input.
\rightarrow	Backspace	Delete a character in front of the cursor.
Enter	Enter	Confirm selection.
ESC	ESC	Exit out of the virtual keyboard.

Rear Panel

Use these diagrams to make the rear panel connections.

HRG4 Rear Panel Connections and Switches



Position	Connection/Switch	Function
1	Video In	BNC connectors for analog video input.
2	Video Out	BNC connectors for video output.
3	Audio In	RCA connectors for analog audio input.
4	Line In	RCA connector for audio input.
5	Audio Out	RCA connector for audio output.
6	LAN	Connector for LAN (Local Area Network).
7	VGA	DB15 connector for VGA output. Display local video output and menu.
8	USB	Connector for USB devices.
9	RS-232 Port	DB9 connector for RS-232 devices.
	Alarm In	Connector for alarm input.
10	Alarm Out	Connector for alarm output.
	RS-485 Port	Connector for RS-485 devices. T+, T- pins connect to PTZ.
11	Power	Switch for turning On/Off the device.
12	12 V	12 V DC power supply.
13	GND	Ground (needs to be connected when HRG DVR starts up).

Table 1-5 HRG4 Rear Panel Connections and Switches

HRG8 Rear Panel Connections and Switches

HRG16 Rear Panel Connections and Switches



Table 1-6 HRG8 and HRG16 Rear Panel Connections and Switches

Position	Connection/Switch	Function
	Main Video Out	BNC connectors for analog video input.
1	Spot Video Out	BNC connectors for spot video out
2	Video In	BNC connectors for analog video input.
3	Audio In	RCA connectors for analog audio input.
4	Line In	RCA connector for audio input.
5	Audio Out	RCA connector for audio output.
6	RS-232 Port	DB9 connector for RS232 devices.
7	VGA	DB15 connector for VGA output. Display local video output and menu.
8	LAN	Connector for LAN (Local Area Network).
9	USB	Connector for USB devices.
10	RS-485 Port	Connector for RS-485 devices. T+, T- pins connect to PTZ.
	Alarm In	Connector for alarm input.
11	Alarm Out	Connector for alarm output.
12	12 V	12 V DC power supply.
13	Power	Switch for turning On/Off the device.
14	GND	Ground (needs to be connected when HRG DVR starts up).

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2

Getting Started

This chapter covers:

- Starting and shutting down the HRG DVR
- Rebooting and locking the HRG DVR
- Using the Setup Wizard
- Setting the date and time

Starting and Shutting Down the HRG DVR

Proper startup and shutdown procedures are crucial to maintaining the life of your HRG DVR.

Starting the HRG DVR

	Note	Ensure that the input voltage meets the requirements of the HRG DVR, and that the GND is grounded.
	Note	Ensure that the VGA on the HRG DVR rear panel is connected to a display device, or that the VIDEO OUT port is connected to a monitor. You cannot view and navigate the menu without being connected to a monitor.
1.	Ensure the power supply is plugged into an electrical outlet. It is HIGHLY recommended that you use an Uninterruptible Power Supply (UPS) in conjunction with the unit.	
2	Press the DOWER switch on the rear panel. After the power has been started up, the	

2. Press the **POWER** switch on the rear panel. After the power has been started up, the POWER indicator on the HRG DVR will light green.

Shutting Down the HRG DVR

1. Click Menu > ShutDown to enter the Shutdown menu (see Figure 2-1).



- 2. Click ShutDown.
- 3. Click **Yes** in the pop-up window to confirm that you want to shut down the HRG DVR.

Rebooting and Locking the HRG DVR

While in the Shutdown menu, you can also reboot or lock your HRG DVR. Locking your HRG DVR will return you to the Live View mode, which requires a user name and password to exit out of it. The Reboot button reboots your HRG DVR.

- 1. Click Menu ➤ ShutDown to enter the Shutdown menu (see Figure 2-1).
- 2. Click Lock or Reboot.

Using the Setup Wizard

By default, the Setup Wizard prompt appears when you turn on the HRG DVR (see *Figure 2-2*). The Setup Wizard guides you to configure some of the important settings for your HRG DVR.

NoteIf the check box is cleared □, then the Setup Wizard will not run again until the
factory default settings are resumed.
If the check box is selected □, then the Setup Wizard will start the next time the
HRG DVR is turned on.



1. Click Next to open the User Permission window (see Figure 2-3).

Figure 2-3 User Permission Window

	Wizard		1
Admin Password I New Admin Pa	***** ssword		
New Password	****	-1	
Confirm	****	123	
		Previous	Next

- 2. Navigate to the **Admin Password** input field. Enter the admin password into the **Admin Password** input field. By default, the password is **12345**.
- 3. Select the **New Admin Password** check box to change the admin password. Enter the new password and confirm.
- 4. Click Next to continue to the HDD Management window.



Figure 2-4 Entering the HDD Management Window

- 5. At the prompt, click Enter to open the HDD Management window (see Figure 2-5).
- 6. If a new hard drive was recently installed, select the HDD from the list, and then click **Init** to initialize it.

Initializing the HDD will format it and remove all data from it.

Figure 2-5 HDD Management Window

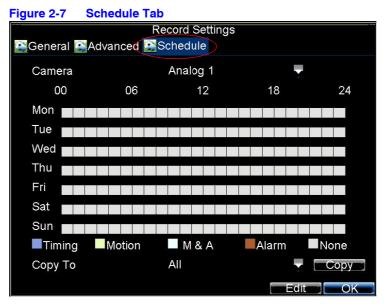
and a second		HDD Managem	ent		
General	🚰 Advance 🔮	Set Cameras f	or HDD Gro	bup	
Label	Capacity	Free Space	Status	Group	Pro
I 1	465.76GB	392.75GB	Normal	1	RN
<		1 1			>
		Property	Group	lnit 🔂 🖂 O	K

- 7. After the HDD has been initialized, click **OK** to return to the **Setup Wizard**.
- 8. Click **Next** to continue to the **Record Settings** window.

	Wizard		
Enter "Record Set	tings"?		
Enter			
21101			
	Previous	Next	Cancel

Figure 2-6 Entering the Record Settings Window

- 9. At the prompt, click Enter to open the Record Settings window (see Figure 2-7).
- 10. Select the **Schedule** tab.



11. Click Edit.

A new recording schedule opens (see *Figure 2-8*).

	Record Settings							
2	Enable	Scheo	lule					
Da	ys				aii v	Veek	-	
	All Day					Type Time		•
10	≑:0		0	‡:0	-	Type Time		-
20	\$:0	÷	0	÷:0	45 45 45 45 45 45 45	Type Time		-
3 0	\$:0		0	÷:0	=	Type Time		-
4 0	¢:0		0	÷:0	=	Type Time		-
50	÷:0		0	÷:0	=	Type Time		-
60	÷ :0		0	÷:0	-	Type Time		
70	÷:0		0	÷:0		Type Time		-
8 0	÷:0		0	÷:0	-	Type Time		-
								Concel
						Apply	ОК	Cancel

Figure 2-8 Entering a New Recording Schedule

- 12. Select both the **Enable Schedule** and **All Day** check boxes to enable the recording schedule and allow it to record continuously all day.
- 13. Click OK to return to the Schedule tab.

Note To copy the schedule to a different channel, select the channel or all under **Copy To**, and then click **Copy** (see *Figure 2-9*).

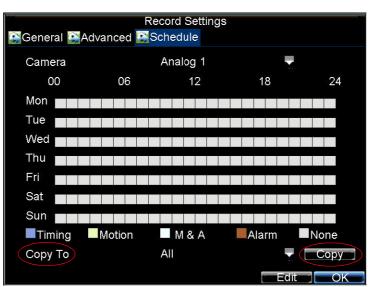


Figure 2-9 Copying a Schedule

14. Click Next to continue to the Network Settings window.

Wizard		
Enter "Network Settings"?		
Enter		
Previous	Next	Cancel

Figure 2-10 Entering the Network Settings Window

15. At the prompt, click Enter to open the Network Settings window (see Figure 2-11).

Figure 2-11 Network Settings Window

Network Settings				
🕰 General 🖾 Advanced 🖾 Network Status				
NIC Туре	10M/100M Auto 🛛 👻			
DHCP				
IP Address	172.8.116.11			
Subnet Mask	255 . 255 . 255 . 0			
Default Gateway	172 . 8 116 . 1			
Preferred DNS Server	· · · · ·			
Alternate DNS Server				
MAC Address	00:40:30:11:11:8d			
	Appiy OK	Cancel		

- 16. Enter the IP Address, Subnet Mask, and Default Gateway.
- 17. Click **OK** to return to the Setup Wizard.
- When you are finished entering settings, click **Done** to close the Setup Wizard. This completes the initial setup process. Continue to Setting the Date and Time.

Setting the Date and Time

You must set up the system date and time to accurately timestamp recordings and events.

To set up the date and time:

- 1. Open the General Settings Menu by doing one of the following:
 - Press MENU on the remote control or the front panel of the HRG DVR.
 - Right-click with the mouse, and then click Menu.
- 2. Click Settings, and then click General to enter the General Settings menu.

Figure 2-12 Setting the Date and Time

Ge	eneral Settings
🚰 General 🎑 DST Settings	More Settings
Language	English 🛛 🗸
CVBS Output Standard	NTSC 🚽
Resolution	1024*768/60HZ 🚽
Time Zone	(GMT+00:00) Dublin, Ec ∽
Menu Date Format	YYYY-MM-DD 🚽
System Time	2012-06-20
Mouse Pointer Speed	
Enable Password	
	Apply OK Cancel

- 3. Enter the correct date and time in the System Time field.
- 4. Click Apply to save the settings.

3

Live View

This chapter describes the Live View on-screen display and how to operate and configure the Live View display.

On-screen Display in Live View

Live View mode starts automatically when the HRG DVR is turned on. You can return to Live View mode from any submenu by pressing ESC multiple times.

Live View Icons

Some icons are provided on screen in Live View mode to indicate different camera status. These icons include:



Main Output

Aux Output





Event Alarm: Indicates video loss, video tampering, motion



detection, or relay alarm. Record: Indicates the current channel that is recording. The recording can be started manually or from a schedule, and/or when a motion detection or alarm event is triggered.



Event Alarm & Record

Operating Live View

In Live View mode, you can select the following options:

Display Single Camera	 Front Panel/Remote: Use the alphanumeric buttons. Mouse: Right-click anywhere in the window, and then click Single Camera.
Multi-camera Live View	 Front Panel/Remote: Press the PREV button. Mouse: Right-click anywhere in the window, and then click Multi Camera.
Manual Switch	 Front Panel/ Remote: Press the left arrow button to access the previous screen. Press the right arrow button to access next screen. Mouse: Right-click anywhere in the window, and then click Next Screen.
Auto Sequence	 Front Panel/Remote: Press the (Enter) button. Mouse: Right-click anywhere in the window, and then click Start Auto-switch.
Digital Zoom	• Mouse: Right-click anywhere in the window, and then click Digital Zoom.

Using the Mouse in Live View

Some functions of the Live View can be quickly accessed by clicking the right mouse button (see *Figure 3-1*).

Figure 3-1 Live View Shortcut Menu



Menu items include:

- Single Camera: Switch to a full-screen display of the selected camera by drop-down submenu.
- **Multi Camera:** Switch between different multi-camera display modes by drop-down submenu.
- **Next Screen:** When displaying less than the maximum number of cameras in Live View, select this option to switch to the next camera display.
- Playback: Enter Playback mode of the selected camera.
- PTZ: Enter PTZ control mode of the selected camera.
- Digital Zoom: Enter Digital Zoom interface of the selected camera.
- Menu: Enter Main menu.
- Start Auto-switch: Enable multi-camera sequence in Live View mode.

Note The dwell time of the Live View configuration should be set before using **Start Auto-switc**h function.

Using the Digital Zoom

To use digital zoom in Live View mode:

- 1. Right-click the mouse in Live View mode, and then click Digital Zoom.
- 2. Drag the red box to the desired area for zooming.

The zoomed image will be magnified by 4 times (see Figure 3-2).

Figure 3-2 Digital Zoom



Configuring the Live View Display

Click Menu > Settings > Display to enter the Display Settings Menu (see Figure 3-3).

	Display Settings	
Video Output	VGA	
Mode	2*2	×.
Dwell Time	Not Switch	
Camera Order	Set	
Enable Audio Output		
Event Output Port	VGA	
Event Dwell Time	10s	T
	Appi	y OK Cancel

Figure 3-3 Display Settings Menu

Configure the following settings:

- Video Output: Set the video output modes, including VGA, Aux Output, and Main CVBS.
- Mode: Set the live view display mode to be 1×1, 2×2, 3×3, or 4×4.
- **Dwell Time:** Set the dwell time for camera switching when **Start Auto-switch** is selected in Live View.
- **Camera Order:** Set the camera order for display in the selected mode (see Setting the Camera Order).
- Enable Audio Output: Enable/disable audio output for the selected video output.
- Event Output Port: Set the port for event output to be VGA, Main CVBS, or Aux Output.
- Event Dwell Time: Set the dwell time for event video display.

Setting the Camera Order

The Camera Order settings allow you to set camera sequence in selectable Live View display mode (see *Figure 3-4*).



Figure 3-4 Camera Order Settings

To set the camera order, do the following:

- 1. Click **Menu > Settings > Display** to enter the Display Settings menu.
- 2. Next to Camera Order, click Set.
- 3. Select the video output port and the display mode (1×1, 2×2, 3×3, and 4×4 selectable).
- 4. Use the direction buttons on the front panel of the DVR to move to the display pane for setting, and then press + to confirm the selection.
- 5. Use the direction buttons on the front panel of the DVR to select the camera you want to be view in the display pane.

The option ' \times ' indicates that no camera is displayed.

6. Press \leftarrow to confirm the selection.

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4

Recording Settings

This chapter explains how to configure recording settings for the HRG DVR, including setting scheduled recording.

Configuring Recording Settings

There are multiple ways to set up your HRG DVR for recording. These include setting up a recording schedule, triggering a recording by motion detection and/or a sensor alarm, and starting a recording manually.

Initializing Recording Settings

- 1. Click Menu > Settings > Record to enter the Record Settings menu (see Figure 4-1).
 - Figure 4-1 General Record Settings Menu

	Record Settings	
Seneral Advanced 🖉	Schedule	
Camera	Analog 1	-
Encoding Parameters	Normal	-
Stream Type	Video & Audio	-
Resolution	4CIF	-
BitRate Type	Variable	-
Video Quality	Low	-
Frame Rate	25(PAL)/30(NTSC)	-
Max. BitRate(Kbps)	1536	- Custom
More Settings	Set	
Сору То	All	- Сору
	Apply	OK Cancel

2. Select the camera you want to configure.

- 3. Configure the following settings:
 - Encoding Parameters: Set the encoding parameters to be Normal or Event.
 - Stream Type: Set the stream type to be Video or Video & Audio.
 - Resolution: Set recording resolution at 4CIF, 2CIF, CIF, or QCIF.
 - Bit Rate Type: Set the bit rate type to be Variable or Constant.
 - Video Quality: Set the recording video quality (6 levels configurable).
 - Frame Rate: Set the frame rate of recording.
 - Max Bit Rate: Select or customize the maximum bit rate for recording.
- 4. Next to More Settings, click Set to configure more recording settings (see Figure 4-2).

Figure 4-2 More Record Settings

R	ecord Settings	
Pre-record	5s	
Post-record	5s	
Recording Expired Time	0	Day(s)
Record Audio	Yes	*
		OK Cancel

- Pre-Record: Set the time in seconds to pre-record before the actual recording begins.
- Post-Record: Set the time in seconds to post-record after the actual recording has ended.
- **Recording Expired Time:** Set the expiration time in days for recorded video. Recorded files after expiration time will be deleted. The actual period for record files storage is determined by the available HDD space.
- Record Audio: Enable or disable audio recording of the selected camera.
- Press the 3DEF/F2 button on the front panel of the HRG DVR to select the Advanced tab. The Advanced Record Settings menu is displayed (see *Figure 4-3*).

	Record Set	tings		
General Advance	ed 🐼 Schedule			
Overwrite	Yes		-	
10 M				
		Apply	OK	Cancel

Figure 4-3 Advanced Record Settings

- Next to Overwrite, select Yes or No to enable or disable the overwrite setting.
 Enabling the overwrite setting causes recorded files to be overwritten once the HDD is full.
- 7. Click **Apply**, and then click **OK** to exit the menu.

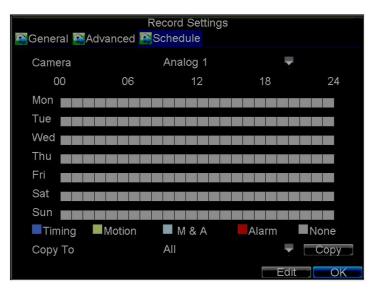
Scheduling Recording

The Schedule Record Settings menu allows you to set up flexible recording schedules for daily or weekly recording.

To set up a recording schedule:

- 1. Click Menu > Settings > Record to enter the Record Settings menu.
- 2. Select the Schedule tab to enter the Schedule Record Settings menu (see Figure 4-4).

Figure 4-4 Schedule Record Settings Menu



- 3. Select the camera for which you want to configure a recording schedule.
- 4. Click Edit to enter the Schedule Settings menu.

- 5. Select the Enable Schedule check box.
- 6. Select the day you want to record or select **All Week** to record the entire week.
- 7. Click **All Day** to enable recording for the entire day, or select different periods for each day. Up to eight time periods can be scheduled.

Note Scheduled time periods cannot be overlapped.

8. Select the recording type.

The recording type can be selected to scheduled or triggered by motion detection and/or alarm. For more specific settings about motion detection and alarm recordings, please refer to *Configuring Alarms on page 59*.

- 9. Click OK.
- 10. Repeat *step 3* to *step 9* for other cameras, or copy settings from one schedule to the others under **Copy To**.
- 11. Click OK to save the settings.
 - **Note** The Event encoding parameters will take effect when motion detection or alarms are triggered. The Timing encoding parameters will take effect when there no events are occurring.

Starting a Manual Recording

A manual recording can be enabled at any time by means of the following configuration:

1. Click Menu ➤ Manual Record to enter the Manual Record menu (see Figure 4-5).

```
Figure 4-5 Manual Record Menu
```

		Manu	ual Re	cord				-
Analog Status	OFF	1 2 off off 9 10 off off	3 OFF 11 OFF	4 OFF 12 OFF	5 0FF 13 0FF	6 OFF 14 OFF	7 15 Off	8 0ff 16 0ff
							Į	Exit

2. Start manual recording by selecting ON or OFF for each camera.

Protecting Recorded Files

Two methods are provided to prevent recorded files from being deleted from the HDD or from being overwritten during cycle recording. You can set the recorded files to be locked or you can set the HDD that the files reside on to be read-only.

Locking and Unlocking Recorded Files

To lock or unlock a recorded file:

1. Click Menu > Video Search to enter the Video Search menu (see Figure 4-6).

Figure 4-6 Vic	deo Search Mer	าน		
	Video	Search		
Analog Status	Ali 1 2 3 4 5			
Video Type	All		-	
File Type	All		-	
Start Time	07-0	5-2012	20 Det	alls
End Time	0 07-0	(‡): 0 €-2012		
	23	2:59	1 59 1	
		Search	Play C	ancel

- Search for the desired recording by entering search parameters.
 Search parameters include Camera ID, Video/File Type, and Start/End Time.
- 3. Click Search.

A list of recorded files (see Figure 4-7) matching the search parameters are displayed.

	Video	Search	
CH.	Start Time	Stop Time	File Type≘ੇ
A1	06-24-2010 13:36:18	13:44:19	
A1	06-29-2010 16:33:38	16:35:47	f
A1	06-29-2010 16:37:09	16:39:10	_
A1	06-29-2010 16:51:17	16:51:37	f
A1	06-29-2010 17:52:11	17:52:26	F
A1	06-29-2010 17:52:29	17:52:41	f
A1	06-29-2010 17:52:56	17:53:08	F
A1	06-29-2010 17:53:51	17:54:04	f
A1	06-29-2010 17:54:23	17:54:38	f
A1	06-29-2010 17:55:11	17:55:24	<u> </u>
A1	06-29-2010 17:57:15	17:57:30	f
A1	06-29-2010 17:57:41	17:58:16	-
A1	06-29-2010 17:58:51	17:59:05	·
		Lock	ay Cancel

Figure 4-7 Video Search Result List

- 4. Select the file you want to lock/unlock.
- Click Lock to lock the file. If the file is already locked, click Unlock to unlock file.
 Locked files are shown with a closed lock, while unlocked files are shown with an opened lock.
- 6. Click Cancel to exit the menu.

Setting the Hard Drive to Read-Only

To set a HDD to read-only:

- 1. Click **Menu** > HDD to enter the HDD Management menu (see *Figure 4-8*).
 - Figure 4-8 HDD Management Menu

		HDD Managem			
General	Advance 🔮	Set Cameras f	or HDD Gro	up	
🔳 Label	Capacity	Free Space	Status	Group	Pro
1	465.76GB	392.75GB	Normal		R/V
<					>
		Property	Group	Init)K

- 2. Select the General tab.
- 3. Select the HDD to set to read-only.
- 4. Click Property to enter the Property Settings menu (see Figure 4-9).



Figure 4-9 HDD Property Settings Menu

- 5. Set the HDD Status to Read-only, and then click OK to save the settings.
 - Note Once set to read-only, the HDD cannot be written to until it is set back to read/write (**R**/**W**).
 - **Note** For models installed with one HDD only, when the property is set to read-only, the recording of the device will be stopped.

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5

Playback

This chapter describes the playback controls and the various methods of playing back recorded video, including playback from a search and playing back frame-by-frame.

Video Playback

The Client application allows all users to play back record files of the specified period. Multi-camera simultaneous playback is supported.

Playback Interface

Figure 5-1

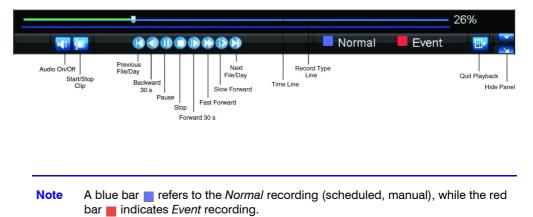
Multiple toolbar and buttons are provided on the Playback interface to control the video playback (see *Figure 5-1*).

Playback Interface

16-11-2009 Mon 11: 55: 19 Playback Panel

The Playback Control panel (see *Figure 5-2*), provides various control buttons for video playback.





Playback by Search

To play back record files by video search:

- 1. Click Menu > Video Search to enter the Video Search menu.
- 2. Set the search parameters by selecting which cameras to search, the video type, the file type, and the start and end times (see *Figure 5-3*).

Figure 5-3	Video Search Menu
	Video Search
Analog Status	All 1 2 3 4 5 6 7 8
Video Ty	
File Type	
Start Tim	e 07-05-2012 20 Details
End Time	
	23 🚖 : 59 🌲 : 59 🚔
	Search Play Cancel

- 3. Click Play to start playback of all files found, or click Search to see a list of search results.
- Select the file you want to play back, and then press Play.
 Recorded files will automatically be played back in the Playback interface (see *Figure 5-4*).

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Figure 5-4 Playback Interface



Playback in Live View Mode

The Client application also allows you to play back recorded files in Live View mode.

To play back by channel in Live View mode:

1. Right-click on the desired channel, and then click **Playback**.

Recorded video from the selected channel will start playing back in the Playback window. An **Attention** message will appear if there are no recordings found in the previous five minutes.

2. Optionally, you can select additional channels for play back from the channel list on the right side of the Playback interface (see *Figure 5-5*).

Figure 5-5 Playback Interface



Multi-camera Playback

- 1. Select the cameras from the list for which you want simultaneous playback.
- 2. Click 🔲 to stop the ongoing video playback.
- 3. Click 🛐 to start multi-camera simultaneous playback.

Note

- Up to 16 cameras can be played back simultaneously.
- The camera list operation is accessible by mouse only. Please do not operate by front panel.
- If the camera numbered the lowest among the multiple cameras selected for simultaneous playback provides no recorded files for the current day selected on the calendar, then the warning message Playback failed will be displayed on the screen.
- The video for simultaneous playback by multiple cameras selected from the camera list refers to the all-day recorded files of the selected day.

Playback by System Log

To play back video from the System Log:

Click Menu ➤ Maintenance ➤ Log Search to enter the Log Search menu (see Figure 5-6).

	Log Sear	ch					
Major Type	Informati	ion		-	ł		
Minor Type	Start Red	cord		-	ł		
Start Time	07-13-20	10		26	1		
	0 📫	: 0	÷:	0 🤤			
End Time	09-13-20	10		26			
	23 😂	: 59	.				
				Sear	ch	Cance	

- 2. Set Major Type to Information, set Minor Type to Start Record or End Record, and then select the Start Time and End Time.
- 3. Click Search.

A list of search results is displayed.

4. Select the video log to play back, and then click **Play**.

The selected recording will begin to play in the Playback interface.

Figure 5-6 Log Search Menu

Playback Frame-by-Frame

To play back frame-by-frame in the Playback interface:

Using a Mouse

- 1. Click **Slow Forward** on the Playback Control Panel until the speed changes to single frame.
- 2. Click Pause to advance the video frame by frame.

Using the Front Panel/Remote Control

- 1. Press the down arrow to change the playback speed to single frame.
- 2. Press 🔶 (Enter) to advance the video frame by frame.

Digital Zoom

To use digital zoom in Playback mode:

- 1. Right-click the mouse in Playback mode.
- 2. Click **Digital Zoom** in the drop-down submenu.
- Drag the red box to the desired area for zooming.
 The zoomed image will be magnified by 4 times (see *Figure 5-7*).

Figure 5-7 Digital Zoom in Playback Mode



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6

Backup

This chapter describes how to back up recorded files, including exporting files and video clips.

Backing Up Recorded Files

Recorded files can be backed up to various devices, such as USB flash drives, USB hard drives, or a DVD writer.

Exporting Files

To export recorded files:

1. Click Menu ➤ Video Export to enter the Record Backup menu (see Figure 6-1).

Figure 6-1 Re	cord Backup Menu	
	Record Backup	
Analog	All 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	5
Status		
Video Type	All 🔫	
File Type	All 🚽	
Start Time	06-20-2012 🚟 Details	
	0 💠 : 0 💠 : 0 💠	
End Time	06-20-2012	
	23 🚖 : 59 🚖 : 59 🖨	
	Export Car	ncel

- 2. Select the desired parameters to search for recorded files to export.
- 3. On the toolbar, click **Export**.

A list of video search results is displayed (see Figure 6-2).

	Reco	rd Backup	
🜌 CH.	Start Time	Stop Time	Size 🔒
🜌 A1	06-24-2010 13:36:18	13:44:19	9,045KB
🜌 A1	06-29-2010 16:33:38	16:35:47	1,476KB
🜌 A1	06-29-2010 16:37:09	16:39:10	1,670KB
🛃 A1	06-29-2010 16:51:17	16:51:37	309KB
🜌 A1	06-29-2010 17:52:11	17:52:26	569KB
📝 A1	06-29-2010 17:52:29	17:52:41	390KB
🜌 A1	06-29-2010 17:52:56	17:53:08	441KB
🜌 A1	06-29-2010 17:53:51	17:54:04	495KB
📝 A1	06-29-2010 17:54:23	17:54:38	572KB
🛃 A1	06-29-2010 17:55:11	17:55:24	512KB
📝 A1	06-29-2010 17:57:15	17:57:30	508KB
📝 A1	06-29-2010 17:57:41	17:58:16	1,126KB
🜌 A1	06-29-2010 17:58:51	17:59:05	496KB 🗸
Total Si	ze: 69.29GB	Play	Next Cancel

Figure 6-2 Video Search Results

4. Select the recorded files you want to export. You can also click **Play** to confirm the recorded file you want to export.

The size of the currently selected files is displayed at the lower-left corner of the window.

5. Click **Next** to enter the Export menu (see *Figure 6-3*).

Figure 6-3 Export Menu

		Exp	ort		-
Refresh	USB1-1		Free	e Space	3.72GB
File Name		Size	Туре	Date Mod	lified
work.			Folder	07-05-20	12 16:43
New D	elete	Play	Format	Start	Cancel
	elete	Play	ronnat	Stall	Caricer

- 6. Select the device to which the record file is to be exported from drop-down list (USB Flash Drive, USB HDD, DVD Writer).
- 7. If the backup device is not recognized:
 - Click Refresh.
 - Reconnect the device.
 - Check for compatibility from vendor (see *Troubleshooting the HRG DVR on page 113*).
- 8. Click Start to begin the backup process (see Figure 6-4).

-		Expo	ort		
Refre	sh USE	31-1 🔻		Space	3.72GB
File I	Name	Size 1	Гуре	Date Mod	lified
⊂ v					16:43
	Exportir	ng 3/4:]	
				Cance	
New	Delete	Play	Format	Start	Cancel

Figure 6-4 Backup Progress Screen

9. After the backup process has completed (*Figure* 6-5), select a file from your device and click **Play** to verify that it has been exported successfully.

Figure 6-5 Export Successful Screen

Refresh USB1-1 Free Space 3.72GB File Name Size Type Date Modified Image: Size Type Image: Size Type Image: Size Type				Exp	ort			
Export successful.	Refresh		USB1-1	-		Free	Space	3.72GB
Export successful.	File Na	me	ų.	Size	Туре		Date Mo	dified
	v	Ехр	ort succi	essful.				16:43
New Delete Play Format Start Cancel								Cancel

Note Video Player software will automatically be copied to the device that the recorded files were exported to.

Exporting Video Clips

You can select video clips to export directly in Playback status. A maximum of 30 clips can be selected for each channel.

Exporting Video Clips Using the Mouse

To export video clips during Playback using the mouse:

1. Enter the Playback interface (see Video Playback on page 47).

- 2. Click **Start/Stop Clip** on the Playback Control Panel (see *Figure 5-2*), and select the start and end of the video clip during playback. Repeat for additional clips.
- 3. Click **Quit Playback** to exit the Playback interface. You are then prompted to save the clips (see *Figure 6-6*).

Figure 6-6	Save Video Clips Prompt
	Attention
	3 video clips to be o you want to save
	Yes No

- 4. Click Yes to enter the Backup interface, or click No to exit the Playback interface.
- 5. In the Backup interface, click Start to begin the backup process.

Exporting Video Clips Using the Front Panel/Remote

To export video clips during Playback using the Front Panel/Remote:

- 1. Enter the Playback interface (See Video Playback on page 47).
- 2. During playback, press Edit to mark the start of the clip.
- 3. Press Edit again to mark the end of the clip.
- 4. Repeat steps 2 and 3 for additional clips.
- 5. Press the **ESC** button to exit the Playback interface. You will then be prompted to save the clips (see *Figure 6-6*).
- 6. Click Yes to enter the Backup interface, or click No to exit the Playback interface.
- 7. In the Backup interface, click Start to begin the backup process.

Managing Backup Devices

To manage backup devices, you must first be in the Export menu (see *Figure 6-7*). The Export menu can be accessed by following the steps shown in the section *Exporting Files*.

Export					
Refresh USB	1-1 🔫	Fre	e Space	3.65GB	
File Name	Size	Туре	Date Mod	dified	
work		Folder	07-05-20	12 16:43	
🔲 ch01_2012(9,269KB	File	07-09-20	12 16:30	
ch01_2012(45,918KB	File	07-09-20	12 16:30	
🔲 ch01_2012(24,837KB	File	07-09-20	12 16:30	
🔲 player.exe	709KB	File	07-09-20	12 16:30	
New Delete	Play	Format	Start	Cancel	

Figure 6-7 Export Menu

From the Export menu, you can select the following options:

- New Folder: Create a new folder on the export device.
- **Delete:** Delete a file or folder from the export device.
- Play: Play the selected video file on the export device.
- Format: Format the export device.
- Erase: Erase files from a re-writable CD or DVD.

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7

Alarm Settings

This chapter describes how to configure the HRG DVR to detect and respond to alarms.

Configuring Alarms

Motion Detection Alarm

Figure 7-1

To configure Motion Detection recording, do the following:

Camera Settings Menu

1. Click Menu > Settings > Camera to enter the Camera Settings menu (see Figure 7-1).

Ca	amera Settings		
🖾 General 🖾 Advanced			
Camera	Analog 1	-	
Camera Name	Camera 01		
Display Camera Name			
Display Date			
Display Week			
Date Format	MM-DD-YYYY	-	
Time Format	24-hour	-	
OSD Display	Non Transparent & No	t 💌	
OSD Display Position	Set		
Сору То	All	-	Сору
	Record Apply	OK	Canc

2. Select the Advanced tab to enter the Advanced Camera Settings menu (see Figure 7-2).



- 3. Select the **Motion Detection** check box, and then click **Area Settings** to enter the Motion Detection Area Settings interface.
- 4. Mask the Motion Detection area by dragging the grid with your mouse (see *Figure 7-3*). The maximum area can be set to full screen. You can also use the **EDIT** and direction buttons on the front panel of the HRG DVR to configure the Motion Detection area.





5. Right-click anywhere in the window or press **MENU** on the front panel of the DVR to set the Motion Detection Sensitivity (see *Figure 7-4*). The higher the value, the higher the sensitivity level.

Figure 7-2 Advanced Camera Settings - Motion Detection

Sensitivity	0 🗸
	0
	1
	2 3
	3
	4
	5
	OK Cancel

Figure 7-4 Motion Detection Sensitivity Settings

- 6. Click **OK** to return to the Motion Detection Area Settings interface.
- 7. Right-click anywhere in the window, and then click **Exit** to return to the Advanced Camera Settings menu.
- 8. Click Handle to enter the Exception Handle menu (see Figure 7-5).

Figure 7-5 Exception Handle Menu

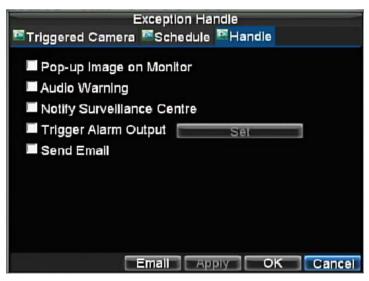


- 9. Select cameras to trigger for recording when motion is detected by selecting the check boxes under the desired cameras.
- Select the Schedule tab to set when you want motion detection to be enabled (see Figure 7-6). The schedule can be set for all week or any day of the week, with up to eight time periods per day.

Figure 7-6 Schedule Settings				
Triggered Camera	Exception Handle			
Schedule 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ≑:0 ≑ 0 ≑:0 ≑ 0 ≑:0 ≑ 0 ≑:0 ≑ 0 ≑:0 ≑	·		
Сору То	All Week	 Copy OK Cancel 		

- **Note** After you have configured the schedule, the HRG DVR must be restarted for the new settings to take effect.
- 11. Select the **Handle** tab to configure exceptions handling (see *Figure 7-7*). Exception trigger options are described in *Understanding Exception Trigger Options on page 81*.

Figure 7-7 Handle Settings



12. Click OK to save the settings for the selected camera.

You can now add a schedule to start recording when motion is detected (see *Scheduling Recording on page 41*).

Sensor Alarm Settings

Recordings can be triggered from an external relay alarm device.

To set up sensor alarms:

1. Click Menu > Settings > Alarm to enter the Alarm Settings menu (see Figure 7-8).

Figure 7-8 Alarm Settings Menu

	Alarm Settings				
🔤 Alarm Ir	nput 🖾 Alarm Outpu	ıt			
No.	Alarm Name	IP Camera Address	туре ^		
A<-1		Local	N.O		
A<-2		Local	N.O		
A<-3		Local	N.O -		
A<-4		Local	N.O -		
A<-5		Local	N.O -		
A<-6		Local	N.O		
A<-7		Local	N.O		
A<-8		Local	N.O		
A<-9		Local	N.O		
A<-10		Local	N.O		
A<-11		Local	N.O		
A<-12		Local	N.O 🗸		
			Set OK		

2. Select the Alarm Input Number, and then click Set to enter the Alarm Input Settings menu (see *Figure 7-9*).

Alarm Settings 🖾 Alarm Input 🖾 Alarm Output Alarm Input No. A<-1 Alarm Name N.O Туре Setting Handle PTZ Camera Analog 1 Preset 1 * Patrol 1 Pattern 1 -All Сору То Сору Apply OK Cancel

Figure 7-9 Alarm Input Settings Menu

- 3. Set **Type** to Normally Opened (**N.O**) or Normally Closed (**N.C**).
- 4. Select the **Setting** check box, and then click **Handle** to enter the Alarm Input Handle menu (see *Figure 7-10*).

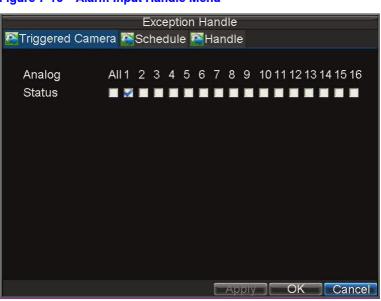


Figure 7-10 Alarm Input Handle Menu

- 5. Select the Triggered Camera tab.
- 6. Select cameras to trigger for recording when an alarm occurs by selecting the check boxes under the desired cameras (see *Figure 7-10*).

You can select a PTZ camera to link with the alarm input and then set the call up of preset, patrol, and pattern for alarm-linked actions.

- 7. Click OK to save the settings.
- 8. You can now add a schedule to start recording when an alarm is triggered (see *Scheduling Recording on page 41*).

Alarm outputs can also be configured in the Alarm Settings menu.

To set up an Alarm Output:

1. Select the Alarm Output tab to enter the Alarm Output interface (see Figure 7-11).

Figure 7-11 Alarm Output Interface

	Alarn	n Settings	
🚰 Alarm Inpu	t 醛 Alarm Output		
No.	Alarm Name	IP Camera Address	Hold For
A->1		Local	5
A->2		Local	5
A->3 A->4		Local	5
A->4		Local	5
			Set OK

2. Select the output you want to configure, and then click **Set** to enter the settings page for the selected channel (see *Figure 7-12*).

	Alarm Se	ttings		
🚰 Alarm Input 🕾 Alar	m Output			
Alarm Output No.	A->1		-	
Alarm Name				
Hold For	5s		-	
Schedule	All We	ek	-	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
8 0 ≑:0 ≑ Copy To	0 ‡:0 ‡ All		•	Сору
		Apply	OK	Cancel

Figure 7-12 Alarm Output Settings

- 3. Configure the settings for the selected output.
- 4. Click **OK** to save the settings.

Note If **Hold For** is set as **Manually Stop**, the alarm will only stop when you manually turn it off (see *Manual Alarm Triggering*).

Manual Alarm Triggering

You can trigger alarm outputs manually through the Manual Alarm menu.

To trigger alarm outputs manually:

1. Click Menu > Manual Alarm to enter the Manual Alarm menu (see Figure 7-13).

```
Figure 7-13 Manual Alarm Menu
```

Manu	al Alarm	
Alarm Output Alarm Name	IP Camera Address	Trigger
A->1	Local	No
A->2	Local	No
A->3	Local	No
A->4	Local	Νο
Trigg	er Trigger All Clear Al	I OK

- 2. Configure the following settings in the Manual Alarm menu:
 - Trigger: Select an alarm from the list and click Trigger to trigger its output.
 - Trigger All: Trigger all alarm outputs at once.
 - Clear All: Stop all alarm outputs at once.
- 3. Click OK to save the settings.

Video Loss Detection

The DVR can be set up to detect video loss and trigger an action.

To set up video loss detection:

1. Click Menu > Settings > Camera to enter the Camera Settings menu (see Figure 7-14).

C	amera Settings		
Camera	Analog 1	-	
Camera Name	Camera 01		
Display Camera Name			
Display Date			
Display Week			
Date Format	MM-DD-YYYY		
Time Format	24-hour	-	
OSD Display	Non Transparent & N	ot 🔽	
OSD Display Position	Set		
Сору То	All	-	Сору
	Record Apply	OK	Cance

Figure 7-14 Camera Settings Menu

- 2. Select the Advanced tab to enter the Advanced Camera Settings menu.
- 3. Select the camera to be configured with video loss detection.
- 4. Select the Video Loss Detection check box to enable this feature (see Figure 7-15).

Ca	imera Settings		
🖾 General 🖾 Advanced			
Camera	Analog 1	-	
Image Settings	Set		
Mask	Area Settings		
Tamper Detection			Handle
Motion Detection	Area Settings		Handle
🜌 Video Loss Detection			Handle
Сору То	All	-	Сору
	Apply	OK	Cancel

Figure 7-15 Advanced Camera Settings - Video Loss Detection

- 5. Next to Video Loss Detection, click Handle to enter the Exception Handle menu.
- 6. Select the **Schedule** tab to set when you want video loss detection to be enabled (see *Figure 7-16*). The schedule can be set for all week or any day of the week, with up to eight time periods per day.

Figure 7-16 Schedule Settings

less s	Exception Handle	
🕵 Schedule 🕵 Handl	e	
Schedule	All Week	.
1 2 章:0 章 2 8 章:0 章	5 ≑:0 ≑ 20 ≑:0 ≑	
3 0 4 :0 4 4 0 5 :0 7	0 4:0 4 0 4:0 4	
5 0 1 :0 1 6 0 1 :0 1 7 0 1 :0 1	0 ≑:0 ≑ 0 ≑:0 ≑ 0 ≑:0 ≑	
8 0 0	0 1:0	
Сору То	All Week	Соруш
	Apply	OK Cancel

Note After you have configured the schedule, the HRG DVR must be restarted for the new settings to take effect.

7. Select the **Handle** tab to configure exceptions handling (see *Figure 7-17*). Exception trigger options are described in *Understanding Exception Trigger Options on page 81*.



- 8. Click OK to save the settings.
- 9. Repeat step 3 to step 8 to configure settings for other channels.

Video Tampering Detection

The video tampering can also be detected and set to trigger an action on your DVR.

Note The video tampering detection area is in full-screen mode by default and cannot be configured.

To set up video tampering detection:

1. Click Menu > Settings > Camera to enter the Camera Settings menu (see Figure 7-18).

Figure 7-18 Camera Settings Menu

Ca	mera Settings		
Seneral Advanced			
Camera	Analog 1		
Camera Name	Camera 01		
Display Camera Name			
Display Date			
Display Week			
Date Format	MM-DD-YYYY	•	
Time Format	24-hour	•	
OSD Display	Non Transparent & Not	-	
OSD Display Position	Set		
Сору То	All	-	Сору
	Record Apply	ЭK	Cancel

- 2. Select the Advanced tab to enter the Advanced Camera Settings menu.
- 3. Select the camera to be configured with video tampering detection.
- 4. Select the Tamper Detection check box to enable this feature (see Figure 7-19).

Figure 7-19 Advanced Camera Settings - Tamper Detection

Ca	amera Settings	
General Advanced		
Camera Image Settings ■ Mask ጃ Tamper Detection	Analog 1	Handle
Motion Detection	Area Settings	Handia
Video Loss Detection Copy To	All	Copy
	Apply OK	Cancel

- 5. Next to Tamper Detection, click Handle to enter the Exception Handle menu.
- 6. Select the **Schedule** tab to set when you want video tampering detection to be enabled (see *Figure 7-20*). The schedule can be set for all week or any day of the week, with up to eight time periods per day.

les a	Exception Handle	
🖾 Schedule 🖾 Handl	e	
Schedule	All Week	-
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
Сору То	All Week	OK Cancel

Figure 7-20 Schedule Settings

Note After you have configured the schedule, the HRG DVR must be restarted for the new settings to take effect.

 Select the Handle tab to configure exceptions handling (see Figure 7-21). Exception trigger options are described in Understanding Exception Trigger Options on page 81.



- 8. Click **OK** to save the settings.
- 9. Repeat step 3 to step 8 to configure settings for other channels.

Exception Settings

The exception setting allows the DVR to alert you when irregular events occur. These events include:

- HDD Full: All installed hard drives are full.
- HDD Error: Errors occurred during writing of the hard drive(s), no hard drive is installed, or the hard drive(s) failed to initialize.
- Network Disconnected: Disconnected network cable.
- IP Conflict: Conflict in IP address setting.
- Illegal Login: Incorrect user ID or password used.
- Video Output Standard Mismatch: Video output standards do not match each other.

To set exceptions:

- 1. Click Menu > Settings > Exception to enter the Exception menu.
- 2. Under Exception Type, select the exception that you want to configure.
- 3. Select triggering options (see Figure 7-22).

E	ception	
Exception Type Audio Warning Notify Surveillance Ce	HDD Full	*
I Trigger Alarm Output I Send Email	Set	
Email		OK Cance

Understanding Exception Trigger Options

When setting up exception handles for such features as motion detection and relay alarms, you can select triggering options to alert you of these exceptions.

The triggering options include:

- Pop-up Image on Monitor: When an alarm is triggered, the local monitor (VGA or BNC monitor) will display an image in Live View mode. This alarm can be configured under the Popup Alarm Image handle method. For alarms that are triggered simultaneously, images will be displayed one at a time every 10 seconds (default dwell time). A different dwell time can be set by going to Menu ➤ Settings ➤ Display ➤ Dwell Time. Once the alarm stops, cycling of the images will also stop and you will be returned to the Live View screen.
- Audio Warning: Trigger an audible beep when exception is detected.
- Notify Surveillance Centre: Sends a signal to remote alarm host when exception is detected (see Configuring Remote Alarm Host Settings on page 77).
- **Trigger Alarm Output:** Trigger an alarm output when an exception is detected. Alarm output can be configured by following the steps listed in *Sensor Alarm Settings*.

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8

Network Settings

This chapter covers how to configure network settings.

Configuring Network Settings

The network settings must be configured if the HRG DVR is used for monitoring over a network.

Configuring General System Settings

To configure the general network settings:

- 1. Click **Menu** > Settings > Network to enter the Network Settings menu (see *Figure 8-1*).
 - Figure 8-1 Network Settings Menu

Ne	twork Settings	
🕾 General 🕾 Advanced 🖳 N	etwork Status	
NIC Type	10M/100M Auto	-
DHCP		
IP Address	172.8.116.11	
Subnet Mask	255 . 255 . 255 . 0	
Default Gateway	172 . 8 . 116 . 1	
Preferred DNS Server		
Alternate DNS Server	ata di sita	
MAC Address	00:40:30:11:11:8d	
	Apply	OK Cancel

2. Select the **General** tab. Configure the settings on the interface.

- 3. If you want to configure your own settings, enter the settings for:
 - P IP Address: IP address you would like to use for your HRG DVR.
 - Subnet Mask: Subnet Mask of network.
 - Default Gateway: IP address of your Gateway. Typically the IP address of your router.
 - Preferred/Alternate DNS Server: The preferred and alternate Domain Name System (DNS) Server to be used with your HRG DVR.
- 4. If you have a DHCP server running and would like your DVR to automatically obtain an IP address and other network settings from that server, select the DHCP check box. You can check the DHCP status by going to the Network Status tab (see *Figure 8-2*).

Figure 8-2 Network Status

Network	
Seneral Advanced Ketwor	k Status
DHCP Status:	
Enable NO	
IP Address N/A	
Subnet Mask N/A	
Default Gateway N/A	
PPPOE Status:	
Enable NO	
IP Address N/A	
Subnet Mask N/A	
Default Gateway N/A	
	OK

5. Click OK to save the settings and exit the menu.

Configuring PPPoE Settings

Your DVR also allows for Point-to-Point Protocol over Ethernet (PPPoE) access.

To set up PPPoE access:

- 1. Click Menu > Settings > Network to enter the Network Settings menu.
- 2. Select the Advanced tab to enter the Advanced Network Settings menu (see Figure 8-3).

		_	
Network Settings			
General	Advanced	Network Status	
BBBBB			
PPPOE		Set	
DDNS		Set	
NTP		Set	
HOST/O	THERS	Set	
Email		Set	
			OK

Figure 8-3 Advanced Network Settings Menu

3. Click Set next to PPPOE to enter the PPPoE Settings menu (see Figure 8-4).

Figure 8-4 PPPoE Settings

	PPPOE
PPPOE	¥
User Name	user
Password	****
Confirm Password	****
	OK Cancel

- 4. Select the **PPPOE** check box to enable this feature.
- 5. Fill in the User Name, Password, and Confirm Password boxes, and then click OK.

PPPOE credentials can be obtained from your network administrator. Once the setup is completed, your DVR will automatically dial-up into your network after reboot.

6. Click **OK** to save the settings and exit the menu.

You may be asked to restart your HRG DVR for the settings to take effect. To check on the status of your PPPoE connection, go to **Menu > Settings > Network** and select the **Network Status** tab.

Configuring DDNS

If your DVR is set up to use PPPoE as its default network connection, you can set up Dynamic DNS (DDNS).

To set up DDNS:

Figure 8-5

- 1. Click **Menu > Settings > Network** to enter the Network Settings menu.
- 2. Select the Advanced tab.
- 3. Next to DDNS, click Set to enter the DDNS settings menu (see Figure 8-5).

	DDNS
DDNS	
DDNS Type	
Server Address	
DVR Domain Name	
User Name	
Password	
Confirm Password	
	OK Cancel

DDNS Settings Menu

- 4. Select the DDNS check box to enable this feature.
- 5. Select the desired DDNS Type from the drop-down menu, and configure accordingly.
 - **Note** Configuration application notes for supported DDNS servers can be found on the **HRG Performance Series DVR** product webpage (*https://www.honeywellvideo.com/products/recorders/em/index.html*) in the **Product Literature** section.

Configuring NTP Server Settings

A Network Time Protocol (NTP) Server can be set up on your HRG DVR to maintain the current date and time.

To set up an NTP server:

- 1. Click Menu > Settings > Network to enter the Network Settings menu.
- 2. Select the Advanced tab.
- 3. Next to NTP, click Set to enter the NTP Settings menu (see Figure 8-6).

3 60	Minute(s)
60	Minute(s)
123	
	123

Figure 8-6 NTP Settings Menu

- 4. Select the **NTP** check box to enable this feature.
- 5. Configure the NTP settings:
 - Synchronize Interval: Time in minutes to synchronize with the NTP server.
 - NTP Server: Address of the NTP server.

Note The address can be set to the IP address or the domain name. When the domain name is used, please set the DNS server address.

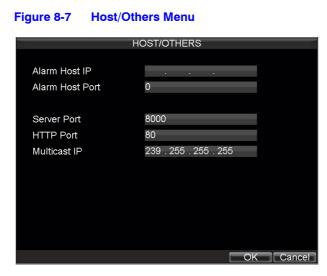
- 6. Click **OK** to save the settings and exit the menu.
 - **Note** Time synchronization interval has a range of 0 to 10080 min, normally 7200 min. If the DVR is used on a public network, you should use an NTP server that has a time synchronization function, such as the server at the National Time Center (IP Address: 210.72.145.44). If the DVR is set up in a more customized network, NTP software can be used to establish an NTP server used for time synchronization.

Configuring Remote Alarm Host Settings

With a remote alarm host set, the HRG DVR will send a signal to the host when an alarm is triggered. The remote alarm host must have the Network Video Surveillance software installed.

To set up a remote alarm host:

- 1. Click **Menu > Settings > Network** to enter the Network Settings menu.
- 2. Select the Advanced tab.
- 3. Next to Host/Others, click Set to enter the Host/Others menu (see Figure 8-7).



4. Enter the Alarm Host IP and Alarm Host Port.

Alarm Host IP is the IP of the remote PC that has the Network Video Surveillance software installed. The Alarm Host Port must be the same as software's alarm monitor port (default port is 7200).

Configuring Multicast

Setting up multicasting solves limitation issues when streaming video through a network access device. A multicast address spans the Class-D IP range of 224.0.0.0 to 239.255.255.255. It is recommended to use the IP address range from 239.252.0.0 to 239.255.255.255.

To set up multicasting:

- 1. Click Menu > Settings > Network to enter the Network Settings menu.
- 2. Select the Advanced tab.
- 3. Next to Host/Others, click Set to enter the Host/Others menu.
- 4. Set Multicast IP (see Figure 8-8).

When adding a device to the Network Video Surveillance software, the multicast address must be the same with the DVR's multicast IP.

Figure 8-8 Host/Others Menu

	HOST/OTHERS
Alarm Host IP Alarm Host Port	· · · · · · · · · · · · · · · · · · ·
Server Port	8000
HTTP Port Multicast IP	80 239 . 255 . 255 . 255
	OK Cancel

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5. Click **OK** to save the settings and exit the menu.

Configuring Server and HTTP Ports

If you would like to change the server and HTTP ports from the default settings, you can do so in the Network Settings menu. The default server port is 8000 while the default HTTP port is 80.

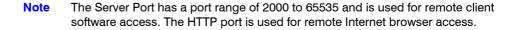
To change the default ports:

- 1. Click **Menu > Settings > Network** to enter the Network Settings menu.
- 2. Select the Advanced tab.

- 3. Next to Host/Others, click Set to enter the Host/Others menu.
- 4. Enter new Server Port and HTTP Port (see Figure 8-9).

Host/Othors Monu

rigure 0-0 riost/others menu			
	HOST/OTHERS		
Alarm Host IP Alarm Host Port	0		
Server Port	8000		
HTTP Port	80		
Multicast IP	239 . 255 . 255 . 255		
	OK Cancel		



Configuring Email

You can configure your HRG DVR to send email notifications to all designated users if an alarm event or motion event is detected.

Before configuring the email settings, ensure that your DVR is connected to a local area network (LAN) that maintains an SMTP mail server. The network must also be connected to either an intranet or the Internet, depending on the location of the email accounts to which you want to send notification.

To configure the email settings:

- 1. Click Menu > Settings > Network to enter the Network Settings menu.
- 2. Select the Advanced tab.
- 3. Click Set next to Email to enter the Email settings menu.



- 4. Configure the following email settings:
 - Server Authentication (optional): Check to enable server authentication.
 - User Name: Enter the sender's email user account for SMTP server authentication.
 - Password: Enter the sender's email password for SMTP server authentication.
 - SMTP Server: Enter the SMTP server IP address or host name. (For example, smtp.263xmail.com.)
 - From Name: Enter the sender's name.
 - From Email Address: Enter the sender's email address.
 - Select Recipients: Select the receiver. Up to 3 receivers can be configured.
 - To Name: Enter the name of the user who is to receive the notification email.
 - **To Email Address**: Enter the email address of the user who is to receive the notification email.
- 5. Click Apply to save the Email settings.

9

PTZ Control

This chapter describes how to configure and use the HRG Performance Series DVR to control PTZ Dome cameras in your network system.

Navigating the PTZ Menu

PTZ menus can be navigated using either the mouse or the front panel/remote. For quick access to certain PTZ settings, click the right mouse button in Live View mode, and then click **PTZ** to enter PTZ control mode (see *Using the Mouse in Live View on page 34*). While in PTZ control mode, right-click anywhere in the window to see the PTZ menu (see *Figure 9-1*).



Menu items include:

- Camera: Select a PTZ camera.
- Call Preset: Call a PTZ preset.
- Call Patrol: Call a PTZ sequence.
- Call Pattern: Call a PTZ pattern.
- Preset Settings: Enter PTZ preset configuration menu.
- Patrol Settings: Enter PTZ sequence configuration menu.
- Pattern Settings: Enter PTZ pattern configuration menu.
- PTZ Menu: Enter PTZ control menu.
- PTZ Settings: Enter PTZ settings menu.

Configuring PTZ Settings

Settings for a PTZ camera must be configured before it is used. Before proceeding, verify that the PTZ and RS-485 of the DVR are connected properly.

To configure PTZ settings:

1. Click Menu ➤ Settings ➤ PTZ to enter the PTZ Settings menu (see Figure 9-2).

-		
	PTZ Settings	
Camera	Analog 1	-
Baudrate	9600	-
Data Bit	8	-
Stop Bit	1	•
Parity	None	-
Flow Ctrl	None	-
PTZ Protocol		-
Address	0	
Сору То	All	🗸 Сору
	Default Apply	OK Cancel

Figure 9-2 PTZ Settings Menu

- 2. Next to Camera, select the channel where PTZ camera is installed.
- 3. Set the Baudrate, Data Bit, Stop Bit, Parity, Flow Control, PTZ Protocol, and Address.
- 4. Click OK to save the settings and exit the menu.

Note All setting parameters (baud rate, data bit, stop bit, parity, flow control, PTZ protocol and address) must be consistent with the PTZ camera connected.

Setting PTZ Presets, Patrols and Patterns

The HRG DVR allows you to program presets, patrols, and patterns for a connected PTZ camera.

Understanding PTZ Controls

The PTZ control panel provides a series of PTZ controls (see Figure 9-3).



The controls on the panel include:

- 1. **Directional Pad/Auto-scan Buttons:** Controls the movements and directions of the PTZ. The center button is also used to start the auto-scan of the PTZ.
- 2. Zoom: Used to zoom in and out with the PTZ.
- 3. Focus: Used to adjust the focus of the PTZ.
- 4. Iris: Used to open up or close the iris of the PTZ.
- 5. **Speed:** Adjusts the movement speed of the PTZ.
- 6. **Light:** Turns the PTZ light (if applicable) on and off.
- 7. Wiper: Turns the PTZ wiper (if applicable) on and off.
- 8. Zoom In: Instantly zooms the PTZ in.
- 9. **Center:** Centers the PTZ.

Customizing Presets

Presets can be set to move your PTZ camera to a desired preset location.

To set up and call custom PTZ presets:

- 1. Open the PTZ Control panel (*Figure 9-3*) by selecting **PTZ** in the right-click menu or by pressing **PTZ** on the front panel of the DVR.
- 2. Click Preset to enter the Preset Management menu.
- 3. In the Preset Management menu (see Figure 9-4) you can:
 - **Configure Preset:** Use the PTZ control panel to adjust the position of the preset. Select a Preset number and click **Set** to save preset location.
 - Clear Preset: Select a Preset number and click Clear to delete the preset. You can also click Clear All to delete all presets.
 - Call Preset: Select a Preset and click Call.



Figure 9-4 Preset Management Menu

Note Only valid presets can be called and deleted.

Customizing Patrols

Patrols can be programmed to move the PTZ to different key points and make it stay there for a defined duration before moving on to the next point. The key points are defined by presets which can be set by following the steps above in *Customizing Presets*.

To set up and call PTZ patrols:

- 1. Open the PTZ Control panel (*Figure 9-3*), by clicking **PTZ** in the mouse menu or by pressing **PTZ** on the front panel of the DVR.
- 2. Click **Patrol** to enter the Patrol Management menu (see *Figure 9-5*).

Figure 9-5 Patrol Management Menu

	Preset	Patrol		Control tern			
ALC: NOT	Patrol	No. 1			-		
	No.	Preset N	lame	Enabled	KeyPoint No.	D^	T
and the second s	01	Preset 1		No		and the second	
	02	Preset 2		No			
	03	Preset 3		No			N.
11	04	Preset 4		No		.*	-
1/1	Start	Se		Add	Ciear	ок	
-	🗜 Zoom		reset	- 10		/	
1.4.1	Focus	Name of Concession, Name of Street, or other	atrol				

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- 3. In the Patrol Management menu, you can configure a patrol:
 - a. Select a Patrol Number to set.
 - b. Select valid presets (See *Customizing Presets*), and then click **Set** to enter the Patrol Configuration menu. A sequence should have at least two valid presets.
 - c. Set the KeyPoint No., Duration, and Speed (see Figure 9-6).

The KeyPoint Number determines the order the PTZ will follow when cycling through the patrol. The Duration refers to the time span to stay at the corresponding keypoint. The Speed defines the rate at which the PTZ will move to the current preset.

Figure 9-6 Patrol Configuration Menu

17.0		PTZ Control	
P	Ke	ypoint Settings	1 mm
P	No.	1	a second
	Preset Name	Preset1	D^
	KeyPoint No.	1 🗢	
	Duration	0 🖨	
1/2 -	Speed	1 🚔	
111-			•
•	l	OK Cancel	
	Start Set	Add Clear	ок
Party and a second s		eset	
🕑 M 🔳 🖽	Focus 🚍 🔤 Pa	atrol	

- 4. Click **OK** to return to the Patrol Management menu and repeat *step 2* and *step 3* to configure other keypoints.
- 5. After all keypoints have been configured, click the defined **KeyPoint Number**, and then click **Add** to complete the setting.
- 6. Click **OK** to save the settings and exit the current menu.

To clear a PTZ patrol:

- 1. In the Patrol Management menu (Figure 9-5), select a valid Patrol Number.
- 2. Click Clear to delete the patrol.

To call a PTZ patrol:

- 1. In the Patrol Management menu (Figure 9-5), select a valid Patrol Number.
- 2. Click Start to call the patrol, and then click Stop to stop the patrol (see Figure 9-7).



Figure 9-7 Patrol Management Menu

Customizing Patterns

Patterns can be set up by recording the movement of the PTZ.

To set up and call PTZ patterns:

- 1. Open the PTZ Control panel (*Figure 9-3*), by clicking **PTZ** in the mouse menu or by pressing **PTZ** on the front panel of the DVR.
- 2. Click Pattern to enter the Pattern Management menu (see Figure 9-8).

Figure 9-8 Pattern Management Menu



- 3. Select a Pattern Number.
- To record a new pattern, click **Run Record** to start recording the movements of the PTZ. Use the PTZ control panel to move the PTZ. The PTZ movements are recorded until **Stop Record** is clicked.
- 5. To run a pattern, click **Run Pattern** on a valid pattern.

The PTZ moves according to the path that was defined until Stop Pattern is clicked.

6. Click **OK** to exit the menu.

10

Camera Management

This chapter covers OSD settings, image settings, and privacy mask settings.

OSD Settings

Use the Camera Management menu to configure on-screen display (OSD) settings. The OSD is shown in each display during Live View mode and includes the time and date as well as the camera name.

To configure OSD settings:

- 1. Click Menu > Settings > Camera to enter the Camera Settings menu (see Figure 10-1).
- 2. Select the channel to set up the OSD settings in the **Camera** drop-down list and then click **Set**.
- 3. Configure the desired OSD settings (see *Figure 10-1*).

Figure 10-1 Camera Settings Menu

Ca	amera Settings	
🚰 General 💽 Advanced		
Camera	Analog 1	
Camera Name	Camera 01	
Display Camera Name		
Display Date		
Display Week		
Date Format	MM-DD-YYYY	•
Time Format	24-hour	•
OSD Display	Non Transparent & Not	•
OSD Display Position	Set	
Сору То	All	- Сору
	Record Apply C	OK Cancel

4. Click **Set** to modify the OSD display position, including the camera name position and the date/time display position.

Image Settings

Image settings such as the brightness, contrast, saturation and hue can also be adjusted in the Camera Management menu.

To adjust image settings:

- 1. Click Menu > Settings > Camera to enter the Camera Settings menu (see Figure 10-1).
- 2. Select the Advanced tab to enter the Advanced Camera Settings menu (see Figure 10-2).

Figure 10-2 Advanced Camera Settings Menu

Ca	amera Settings	
Seneral Advanced		
Camera	Analog 1 🛛 🗸	
Image Settings	Set	
🗹 Mask	Area Settings	
Tamper Detection		Handle
Motion Detection	Area Settings	Handle
Video Loss Detection		Handle
Сору То	All 🗸	Сору
	Apply OK	Cancel

- 3. Select the channel for image settings in the **Camera** drop-down list.
- 4. Next to Image Settings, click Set.
- 5. Adjust the image settings (see *Figure 10-3*).

You can adjust brightness, contrast, saturation, and hue in the menu. The adjustments of image settings will affect the live images and the recorded images.

Figure 10-3 Image Settings



Privacy Mask Settings

You can set up privacy mask to mask off sensitive or private areas in the field of view of a camera.

To set up a privacy mask:

- 1. Click Menu > Settings > Camera to enter the Camera Settings menu.
- 2. Select the **Advanced** tab to enter the Advanced Camera Settings menu (see *Figure 10-4*). Select the channel for privacy mask settings in the **Camera** drop-down list.



Ca	amera Settings	
Seneral Advanced		
Camera	Analog 1 🛛 🗸	
Image Settings	Set	
🜌 Mask	Area Settings	
Tamper Detection		Handle
Motion Detection	Area Settings	Handle
Video Loss Detection		Handle
Сору То	All 🗸	Сору
	ApplyOK	Cancel

- 3. Select the Mask check box to enable the feature.
- 4. Click Area Settings to enter the Area Settings menu.
- 5. Set the mask area (see *Figure 10-5*). You can configure up to four areas.

Figure 10-5 Setting Mask Area



6. Click Exit to save the settings and exit the Mask Area Settings interface.

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11

Hard Drive Management

This chapter covers how to configure and manage the hard drive(s) of the HRG Performance Series DVR.

Managing Hard Drives

Initializing Hard Drives

A newly installed hard disk drive (HDD) must be first initialized before it can be used with your HRG DVR. Initializing the HDD will erase all data on it.

To initialize a HDD:

1. Click **Menu** > **HDD** to enter the HDD Management menu (see *Figure 11-1*).

Figure 11-1 HDD Management Menu

General		HDD Managem Set Cameras f		oup
Label	Capacity	Free Space	Status	Group Pro
I 1	465.76GB	392.75GB	Normal	1 R/V
<				>
		Property	Group	

- 2. Select the hard drive (HDD) that you want to initialize.
- 3. Click Init.

4. Click OK to start the initialization process.

After the HDD has been initialized, the status of the HDD will change from **Abnormal** to **Normal**.

Setting HDD Groups

Your HRG DVR can separate multiple HDDs into groups. Video from specified channels can be recorded to a particular HDD group.

To set up an HDD group:

- 1. Click **Menu** > HDD to enter the HDD Management menu.
- 2. Select the HDDs to be added to the group.
- 3. Click Group to enter the Group Settings menu (see Figure 11-1).
- 4. Set the HDD Group Number (see Figure 11-2).

Figure 11-2 HDD Group Settings Menu



5. Click **OK** to save settings and exit the Group Settings menu.

Note By default, all HDDs belong to Group 1.

Setting HDD Status

You can change the behavior of your HDD by changing its status. The status of a HDD can be set to read-only or read/write (R/W).

Setting an HDD to Read-Only

A HDD can be set to read-only to avoid important recorded files from being overwritten when the HDD becomes full.

To set a HDD to read-only:

- 1. Click **Menu > HDD** to enter the HDD Management menu.
- 2. Select the HDD to be protected.

3. Click **Property** to enter the Property Settings menu (see Figure 11-3).

Figure 11-3 HDD Property Settings Menu

Property Settings
HDD Status:
Read-only
R/W
OK Cancel

- 4. Set HDD Status to **Read-Only**.
- 5. Click **OK** to save the settings and exit the current menu.

Note Once set to read-only, the HDD cannot be written to until it is set back to read/write (R/W).
 Your DVR can be installed with one HDD only; therefore, when the property is set to read-only, the recording of the device will be stopped.

Checking HDD Status

You can check the status of the installed HDDs on your HRG DVR at any time.

To check the status of a HDD:

Click Menu > HDD to enter the HDD Management menu.

The status of your HDD is listed under the Status column.

- A Normal or Hibernate status indicates that the HDD is in working order.
- If the status is listed as Abnormal and has already been initialized, the HDD needs to be replaced. If the HDD is uninitialized, you need to initialize it before it can be used in your HRG DVR. Please see *Initializing Hard Drives on page 101* for further instructions.

Using the SMART Function

You can also view the SMART information of the installed HDD. SMART (Self-Monitoring, Analysis and Reporting Technology) is a monitoring system for hard disk drives to detect and report on various indicators of reliability in the hopes of anticipating failures.

To view SMART information of an HDD:

Click Menu ➤ Maintenance ➤ Log Search to enter the Log Search menu (see Figure 11-4).

Figure 11-4 Log Search Menu

	Log Search	
84-1- u T		
Major Type	Information	V
Minor Type	Start Record	-
Start Time	07-13-2010	26
	0 ≑: 0 ≑:	0 🗘
End Time	09-13-2010	200Y
	23 💠 🗧 59 🛟 :	59 🜲
		Search Cancel

- 2. Set the Major Type field to Information.
- 3. Set the Minor Type field to HDD SMART.
- 4. Enter the desired times in the **Start Time** and **End Time** fields.
- 5. Click Search to begin the log search.

A list of results similar to that of *Figure 11-5* are displayed.

Figure 11-5 Log Search Results

Log Se	arch	
Major Type Start Time	Minor Type	Parameter
Informatic08-03-2010 08:51:33	HDD S.M.A.R.T	N/A
Informatic08-03-2010 09:51:38	HDD S.M.A.R.T	N/A
Informatic08-03-2010 10:51:42	HDD S.M.A.R.T	N/A
Informatic08-03-2010 11:51:47	HDD S.M.A.R.T	N/A
Informatic08-03-2010 12:51:46	HDD S.M.A.R.T	N/A
Informatic08-03-2010 13:51:50	HDD S.M.A.R.T	N/A
Detail	s Play Exp	ort Cancel

6. Select the log item to view and click **Details**.

A detailed list of SMART information will be displayed (see Figure 11-6).

445. 	L	og S	Search			
Start T	ime	08-0	3-2010	08:51:33		
Туре		HDD	S.M.A	R.T		
Serial I	No.	6VM	3KZYY			
Firmwa	are	CV1	1			
Model		ST3	500410	sv		
HDD N	0.	1				
Descrip	otion:					
ID	Attribute name		Flags	Threshold	Value	V.
0x1	Raw Read Error R	ate	f	6	110	ę
0x4	Start/Stop Count		32	20	99	ę
0x5	Reallocated Sector	r Co	l 33	36	100	1~
			F	revious	Next	OK

Figure 11-6 HDD SMART Information

You can also click **Menu** > HDD to enter the HDD management menu (see *Figure 11-2*), and then select the **Advance** option to enter the SMART menu (see *Figure 11-7*). You can enable the SMART function and view the SMART information as well.

Figure 11-7 HDD SMART Menu

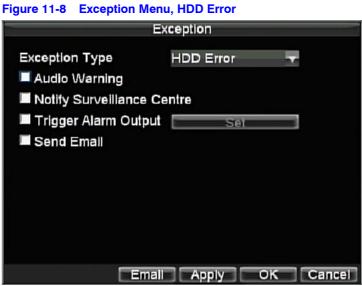
Genera	HDD II 💁 Advance 🖾 Set	0.0000000000000000000000000000000000000	gement as for HDI) Group		
Enable	e S.M.A.R.T	V				
HDD		HDD 1		-		
S.M.A.	R.T Information					
ID	Attribute name	Flags	Threshold	Value	Worst	^
0x1	Raw Read Error Ra	tef	6	110	99	
0x4	Start/Stop Count	32	20	99	99	
0x5	Reallocated Sector	(33	36	100	100	
0x7	Seek Error Rate	f	30	60	57	
0x9	Power-on Hours Co	u32	0	97	97	
0xa	Spin Up Retry Cour	n†13	97	100	100	
Oxc <	Power Cycle Count	32	20	100	100	>
			Арріу	OK	Ca	incel

Configuring HDD Alarms

You can set HDD alarms to trigger when an HDD is uninitialized or in an abnormal state.

To set HDD alarms:

1. Click **Menu > Settings > Exception** to enter the Exception menu (see *Figure 11-8*).



- 2. Set the **Exception Type** drop-down list to **HDD Error**.
- 3. Select the **Trigger Action Output** check box. Trigger actions are further explained in *Understanding Exception Trigger Options on page 71*.

12

HRG DVR Management

This chapter describes how to configure system settings and manage user accounts. It also covers how to update system firmware, restore default settings, and view system information.

Configuring System Settings

Configuring General Settings

Use the General Settings menu to configure general settings such as the system language.

To configure general settings:

- 1. Click Menu > Settings > General to enter the General Settings menu (see Figure 12-1).
 - Figure 12-1 General Settings Menu

General Settings		
🚰General 🝱DST Settings 🚰More Settings		
	English 두	
Language		
CVBS Output Standard	PAL	
VGA Resolution	1280*1024/60HZ 🔍 👻	
⊺ime Zone	(GMT+08:00) Beijing, Ui ▼	
Menu Date Format	MM-DD-YYYY 🔍 🖵	
System Time	09-01-2011 📅 11 후: 13 후: 20 후	
Mouse Pointer Speed		
Enable Password		
	Apply OK Cancel	

2. Select the General tab.

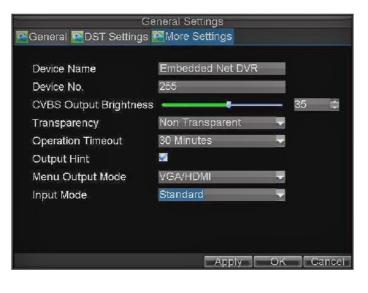
- 3. Configure general settings, including:
 - Language: Default language used in all the HRG DVR menus.
 - CVBS Output Standard: Video output standard: NTSC and PAL.
 - VGA Resolution: VGA output resolution. 1024 × 768/60HZ and 1280 × 1024/60HZ resolution is selectable.
 - Time Zone: Time zone that you want the DVR to use.
 - Menu Date Format: Format for date.
 - System Time: System time and date.
 - Mouse Pointer Speed: Speed of mouse pointer.
 - Enable Password: Enable/disable system password.
 - **Note** If the video standard is different between the input and the output, you may notice flickering in Live View mode. After modifying the video standard, please reboot the DVR to validate the settings.

Configuring Advanced Settings

To configure more advanced system settings:

- 4. Click **Menu** > Settings > General to enter the General Settings menu (see Figure 12-1).
- 5. Select the More Settings tab to enter the More Settings menu (see Figure 12-2).

Figure 12-2 More Settings Menu



- 6. Configure the following settings:
 - Device Name: Name of the HRG DVR used.
 - **Device No.**: Device number of the HRG DVR.
 - CVBS Output Brightness: Video output brightness. Level 0 to 63 can be configurable.
 - Transparency: Menu transparency.
 - **Operation Timeout**: Set the timeout time for menu inactivity. For example, if timeout time was set to five minutes, after five minutes of inactivity in the General Settings menu, you are returned to the Live View.
 - Output Hint: Enable/disable video output hint for main or aux video output.
 - Menu Output Mode: Select the menu output mode to Auto, VGA/HDMI or CVBS.
 When Auto is selected, the system automatically detects whether the VGA/HDMI or CVBS interface is connected.
 - Input Mode: Set the video input mode to Standard or Gentle.

Setting the RS-232 Port

To configure RS-232 devices to be used with the DVR:

1. Click Menu ➤ Settings ➤ RS232 to enter the RS-232 Settings menu (see Figure 12-3).

Figure 12-3 RS-232 Settings Menu

	RS232 Settings	
Baudrate	115200	-
Data Bit	8	-
Stop Bit	1	-
Parity	None	-
Flow Ctrl	None	-
Used As	Console	-
	Default	OK Cancel

2. Configure the RS-232 settings.

- 3. The RS-232 port can be used in two ways:
 - **Parameter Control**: Connect a PC to the HRG DVR using the PC serial port. You can then set device parameters using software such as HyperTerminal. The serial port parameters must be the same as the DVR's when connecting with the PC serial port.
 - Transparent Channel: Connect a serial device directly to the HRG DVR. The serial device will be controlled remotely by the PC through the network and the protocol of the serial device.

Managing User Accounts

By default your Performance Series DVR is configured with the user name of *admin* and password *12345*. The Administrator has the authority to add, delete, or configure the user parameters.

Adding a New User

To add a new user:

1. Click Menu > Settings > User to enter the User Settings menu (see Figure 12-4).

		User Settings	3
No.	User Name	Level	User's MAC Address
1	admin	Administrator	00:00:00:00:00:00
2	user	Guest	00:00:00:00:00:00
		Add	Delete Modify OK

Figure 12-4 User Settings Menu

Click Add to enter the Add User menu (see *Figure 12-5*).
 You can add up to 31 users.

		User Settings	3
No.	User Name	Level	User's MAC Address
1	admin	Administrator	00:00:00:00:00:00
2	user	Guest	00:00:00:00:00:00
		Add	Delete Modify OK

Figure 12-5 Add User Menu

- 3. Enter information for the new user, including User Name, Password, Level, and User's MAC Address.
- 4. The **Level** is the user level and is separated into two tiers:
 - **Operator**: By default, the Operator user level has the authority to configure two-way audio in network settings and all parameters in channel settings.
 - **Guest**: By default, the Guest user level cannot configure network settings, but can configure the local playback as well as the remote playing in channel settings.
- 5. If the **User's MAC Address** is configured and enabled, the user may only access the HRG DVR from that particular MAC address.
- 6. Click **Permission** to enter the Permission Settings menu (see Figure 12-6).

Figure 12-6 Permission Settings Menu

Dermission Cattingo
Permission Settings
🖾 Local Permission 🐼 Network Permission 🖉 Camera Permission
🜌 Local Log Search
Local Configuration
Local Advanced Operation
Local ShutDown / Reboot
Apply OK Cancel

7. Configure permission for local settings on the Local Permission tab.

The local settings include:

- Local Log Search: Search and view logs of HRG DVR.
- Local Configuration: Configure and restore parameters to factory defaults. Introduce settings to or export settings from HRG DVR.
- Local Advanced Operation: HDD management (including the initialization and changing the properties of a disk). Ability to update system firmware as well as to stop the relay output
- Local Shutdown/Reboot: Shut down or reboot the HRG DVR.
- Select the Network Permission tab to configure network permission settings (see Figure 12-7).

Figure 12-7 Network Permission Settings Menu

Permission Settings
🕾 Local Permission 💽 Network Permission 💽 Camera Permission
🖉 Remote Log Search
Remote Configuration
Remote Serial Port Control
Remote Video Output Control
Two-way Audio
Remote Alarm Control
Remote Advanced Operation
Remote ShutDown / Reboot
Apply OK Cancel

The network settings include:

- Remote Log Search: Remotely view logs that are saved on the HRG DVR.
- Remote Configuration: Remotely configure parameters, restore parameters to factory defaults and import settings to as well as export settings from the HRG DVR.
- Remote Serial Port Control: Configure settings for RS232 and RS485 ports.
- Remote Video Output Control: Configure settings for video output.
- Two-way Audio: Permission to use two-way radio between the remote client and the DVR.
- **Remote Alarm Control**: Remote alert or control the relay output of the HRG DVR. Alarm and exception settings must be configured properly to upload to host.
- Remote Advanced Operation: Remotely manage hard disk drives (initializing and setting properties for HDDs). Permission to remotely update system firmware and stop relay output.
- Remote Shutdown/Reboot: Remotely shut down or reboot the HRG DVR.
- 9. Select the Camera Permission tab to configure channel permission (see Figure 12-8).

Permission Settings					
🕿Local Permission 🖉Netwo	🚰 Local Permission 🖾 Network Permission 🚰 Camera Permission				
Remote Live View	Set				
Local Manual Record	Set				
Remote Record Starting	Set				
Local Playback	Set				
Remote Playback	Set				
Local PTZ Control	Set				
Remote PTZ Control	Set				
Local Video Export	Set				
	OK				

Figure 12-8 Camera Permission Settings Menu

The channel settings include:

- Remote Live View: Select and view live video over the network.
- Local Manual Record: Locally start and stop manual recording on any of the channels.
- Remote Record Starting: Remotely start and stop manual recording on any of the channels.
- Local Playback: Locally play recorded files that are on the HRG DVR.
- **Remote Playback**: Remotely play and download recorded files that are on the HRG DVR.
- Local PTZ Control: Locally control PTZ cameras.
- Remote PTZ Control: Remotely control PTZ cameras.
- Local Video Export: Locally back up recorded files from any of the channels.
- 10. Click **OK** to save the settings and exit the menu.

Note If you forget the password to your HRG DVR, contact your supplier with the serial number of the HRG DVR to obtain a secure code to reset your HRG DVR.

Deleting a User

To delete a user from the HRG DVR:

- 1. Click Menu > Settings > User to enter the User Settings menu.
- 2. Select the user you want to delete.
- 3. Click **Delete** to confirm the deletion.
- 4. Click **OK** to exit the menu.

Note The Administrator cannot be deleted.

Modifying a User

To modify a user:

- 1. Click Menu > Settings > User to enter the User Settings menu.
- 2. Select the user you want to modify.
- 3. Click **Modify** to enter the Modify menu (see *Figure 12-9*).

Figure 12-9 Modify User Menu

	Modify
User Name	user
Password	*****
Confirm	****
Level	Guest 🗸
User's MAC	00 : 00 : 00 : 00 : 00 : 00
	Permission OK Cancel

- 4. Edit the user information.
- 5. To modify user permissions, click **Privileges**. Permissions settings are defined in the Adding a New User section described above.
- 6. Click **OK** to exit the menu.

Managing the System

Importing and Exporting the Configuration File

Configuration information from your HRG DVR can be exported to a USB device and imported into another DVR. This will allow you to efficiently setup the same configuration on numerous HRG DVRs.

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To import or export HRG DVR configuration:

 Click Menu ➤ Maintenance ➤ Configuration to enter the Import/Export Configuration menu (see Figure 12-10).

	Import/Export	Configurati	on
Refresh USB1	.	Free Space	e 3.43GB
File Name	Size	Туре	Date Modified
Stream Server	a 19,226KB	File	10-13-2009 10:56:00
User Manual o	f 27,717KB	File	11-25-2009 15:55:56
📕 ch00_2009112	4 163KB	File	11-24-2009 19:00:54
Ch00_2009112	4 164KB	File	11-24-2009 19:01:36
🔲 ch01_2009112	0 353KB	File	11-20-2009 14:56:34 -
ch01_2009112	0 730KB	File	11-20-2009 14:56:34 -
Ch01_2009112	0 394KB	File	11-20-2009 14:56:34
Ch01_2009112	0 236KB	File	11-20-2009 15:15:40
Ch01_2009112	0 398KB	File	11-20-2009 15:15:40
ch01_2009112	0 248KB	File	11-20-2009 15:15:40
devCfg_2009	1 [.] 461KB	File	11-20-2009 17:11:02
Ne	w Folder Dele	te Impor	t Export Cancel

Figure 12-10 Import/Export Configuration Menu

- 2. Click **Export** to export a configuration file to USB device. USB device must be connected at this point to the HRG DVR.
- 3. To import a configuration file, select the file from the USB device, and then click Import.
- 4. After the import process is completed, the system will automatically reboot the HRG DVR.
- 5. Click **Cancel** to exit the current menu.

Updating the System Firmware

The firmware on your HRG DVR can be updated using two methods: you can update via a USB device or over the network via an FTP server.

To update via a USB device:

- 1. Connect the USB device to the HRG DVR. The firmware file must be located in the root directory of your USB device.
- Click Menu ➤ Maintenance ➤ Upgrade to enter the Firmware Update menu (see Figure 12-11).

	rigule 12-11 rilliwale opuale menu				
	Firmware	Upgrade			
🚰Local Upgrade 🔯	FTP				
Refresh USB1	•				
File Name	Size	Туре	Date Modified		
RECYCLER		Folder	11-05-2009 15:42:38		
Recycled		Folder	11-05-2009 15:39:30		
work		Folder	11-20-2009 14:55:36		
🔲 digicap.dav	6,045KB	File	12-04-2009 15:49:54		
			Upgrade Cancel		

Figure 12-11 Firmware Update Menu

- 3. Select the Local Upgrade tab.
- 4. Select the firmware on the USB device.
- 5. Click Upgrade to begin the update process.
- 6. After the system firmware has been updated, reboot the DVR to complete the upgrade process.

To update via an FTP server:

- 1. Configure the PC (running the FTP server) and the HRG DVR to be in the same Local Area Network (LAN). Run the third-party TFTP software on the PC and then copy the firmware to the root directory of TFTP.
- 2. Click Menu > Maintenance > Upgrade to enter the Firmware Update menu.
- 3. Select the **FTP** tab (see *Figure 12-12*).

Figure 12-12 FTP Firmware Update

Firm ELocal Upgrade 🔤 FTF	ware ⊃	Upgr	ade			
FTP Server Address		•	•			
			Ţ	Jpgrad	le Car	icel

- 4. Input the FTP server address.
- 5. Click Upgrade to begin the update process.
- 6. After the system firmware has been updated, reboot the HRG DVR to complete the update process.

Note If the HRG DVR fails to update, please contact your system supplier for further assistance.

Restoring the Default Settings

To restore the default factory settings to your HRG DVR:

1. Click **Menu** ➤ **Maintenance** ➤ **Default** to enter the Default Settings menu (see *Figure 12-13*).

Figure 12-13 Default Settings Menu



2. Click **OK** to restore the factory default settings.

Note Network information such as IP address, subnet mask, and gateway will not be restored.

Viewing the System Information

To view system information:

1. Click **Menu ➤ Maintenance ➤ Information** to enter the System Information menu (see *Figure 12-14*).

Figure 12-14 System Information

	System Information
Device Name	Embedded Net DVR
Model	HRG85
Serial No.	0120120607AAWR408998436WCVU
Firmware Version	1V1.2.2, Build 120604
Encode Version	V5.0, Build 111015

2. Click **OK** to exit to the previous screen.

Viewing the System Log

Many DVR events are logged in the system log.

To access the system logs and search for these events:

1. Click **Menu ➤ Maintenance ➤ Log Search** to enter the Log Search menu (see *Figure 12-15*).

Figure 12-15 Log Search Menu

	Log Search	
Major Type	Information	-
Minor Type	Start Record	-
Start Time	07-13-2010	26
	0 ≑: 0 ≑:	0 🌲
End Time	09-13-2010	26
	23 💠 🗧 59 💠 :	59 拿
		Secret Canad
		Search Cancel

- 2. Set the search parameters.
- 3. Click Search to start the search.

If logs matching the search conditions are found, they will be displayed in a list of search results (see *Figure 12-16*).

Figure 12-16 Log Search Results

Log Se	arch	
Major Type Start Time	Minor Type	Parameter
Informatic08-03-2010 08:51:33	HDD S.M.A.R.T	N/A
Informatic08-03-2010 09:51:38	HDD S.M.A.R.T	N/A
• Informatic08-03-2010 10:51:42	HDD S.M.A.R.T	N/A
Informatic08-03-2010 11:51:47	HDD S.M.A.R.T	N/A
• Informatic08-03-2010 12:51:46	HDD S.M.A.R.T	N/A
Informatic08-03-2010 13:51:50	HDD S.M.A.R.T	N/A
Detai	ls Play Exp	oort Cancel

- 4. To view more detailed information about a particular log entry, select the log, and then click **Details**.
- 5. If applicable, you can also view the associated video to the selected log entry by clicking **Play**.

Exporting Log Files to a USB Device

Log files can also be exported to a USB device.

To export a log file:

- 1. Connect a USB device to the HRG DVR.
- 2. Select the log file to export, and then click **Export** to enter the Log Search Export menu (see *Figure 12-17*).

Figure 12-17 Log Search Export Menu

		Log Se:	arch		
Major Type Informatic		07:04:32	Minor Type HDD S.M.A.R. I	Parameter N/A	
Informatic	11-20-2009	08:04:34	HDD S.M.A.R.T	N/A	
Informatic	11-20-2009	09:04:36	HDD S.M.A.R.T	N/A	
T Operation	11-20-2009	09:32:37	ShutDown Abnorm	N/A	
T Operation	11-20-2009	09:34:08	Power On	N/A	
Informatic	11-20-2009	09:34:08	Local HDD Informa	N/A	
Informatic	11-20-2009	09:34:08	HDD S.M.A.R.T	N/A	
T Operation	11-20-2009	09:34:18	Local Login	N/A	
T Operation	11-20-2009	09:34:18	Local Setting	Video Outpu	ι
T Operation	11-20-2009	09:48:19	ShutDown Abnorm	N/A	
T Operation	11-20-2009	09:50:22	Power On	N/A	
Informatic	11-20-2009	09:50:22	Local HDD Informa	N/A	
Informatic	11-20-2009	09:50:22	HDD S.M.A.R.T	N/A	~
		Detail	s Play Exp	ort Cance	

3. Click **Export** to export the log onto the USB device.

The exported file is named based on the time it was exported. For example, 20120911143958logBack.txt.

4. Click **Cancel** to exit the current menu.



Glossary

This appendix provides an explanation for commonly used terms in this guide.

DDNS: (Dynamic DNS) A method, protocol, or network service that provides the capability for a networked device, such as a router or computer system using the Internet Protocol Suite, to notify a domain name server to change, in real time the active DNS configuration of its configured host names, addresses, or other information stored in DNS.

DHCP: (Dynamic Host Configuration Protocol) A network application protocol used by devices (DHCP clients) to obtain configuration information for operation in an Internet Protocol network.

Dual Stream: Dual stream is a technology used to record high resolution video locally while transmitting a lower resolution stream over the network. The two streams are generated by the DVR, with the main stream having a maximum resolution of 4CIF and the sub-stream having a maximum resolution of CIF.

DVR: (Digital Video Recorder) A DVR is device that is able to accept video signals from analog cameras, compress the signal and store it on its hard drives.

HDD: (Hard Disk Drive) A storage medium which stores digitally encoded data on platters with magnetic surfaces.

HTTP: (Hypertext Transfer Protocol) A protocol to transfer hypertext request and information between servers and browsers over a network

Hybrid DVR: A hybrid DVR is a combination of a DVR and NVR.

NTP: (Network Time Protocol) A protocol designed to synchronize the clocks of computers over a network.

NTSC: (National Television System Committee) NTSC is an analog television standard used in such countries as the United States and Japan. Each frame of an NTSC signal contains 525 scan lines at 60Hz.

NVR: (Network Video Recorder) An NVR can be a PC-based or embedded system used for centralized management and storage for IP cameras, IP Domes and other DVRs.

PAL: (Phase Alternating Line) PAL is also another video standard used in broadcast televisions systems in large parts of the world. PAL signal contains 625 scan lines at 50Hz.

PTZ: (Pan, Tilt, Zoom) PTZ cameras are motor driven systems that allow the camera to pan left and right, tilt up and down and zoom in and out.

USB: (Universal Serial Bus) USB is a plug-and-play serial bus standard to interface devices to a host computer.

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B

Solutions

This Appendix provides possible solutions for resolving system malfunctions that may occur from time to time.

Troubleshooting the HRG DVR

If this happens	Try this
The DVR makes a beeping sound after booting.	 The HRG DVR gives a warning beep after booting if: There is no hard drive present in the HRG DVR; The hard drive has not been initialized; The hard drive is defective. If you want to use your HRG DVR without any HDDs, you can disable this warning beep in the Exception Settings menu (See <i>Exception Settings on page 70</i>).
The DVR does not respond to the IR remote control.	 After you have read the section Using the IR Remote Control on page 19, check that: The batteries are installed correctly in the remote, making sure that the polarities of the batteries are not reversed; The batteries are fresh and not out of power; The remote has not been tampered with; There are no fluorescent lamps in use in close proximity to the HRG DVR.
The PTZ is unresponsive.	 Check that: The RS-485 cable is properly connected; The PTZ dome decoder type is correct; The PTZ dome decoder speed configuration is correct; The PTZ dome decoder address bit configuration is correct; To make sure that the main board RS-485 interface is not broken.
No video is recorded after setting motion detection.	 Check that: The recording schedule is set up correctly by following the procedure in <i>Scheduling Recording on page 41</i>; The motion detection area is configured correctly as described in <i>Motion Detection Alarm on page 59</i>; The channels are being triggered for motion detection as described in <i>Motion Detection Alarm on page 59</i>.

If this happens …	Try this …	
The HRG DVR does not detect my USB export device when I try to export recorded files.	There is a chance that the HRG DVR and refer to the following list of tested comp	d your USB device are not compatible. Please atible/incompatible USB devices:
	Compatible USB Flash Drives (FAT32)	
	 Aigo mini L8202, 1GB (needs to be formatted) Aigo Mini MP3-H06 Plus, 128M Aigo Mini, 128M Babydisk, 64M (manufacturer: Hansol Hedy) Caixing, 128M CoDisk, 64M Crucial, 1G DANE-ELEC, 512M Imation, 128M Kingston Data Traveler, 2GB Kingston Data Traveler, 4GB Kingston, 1G Lexar, 1G LG M4, 4G Memorex, 1G 	 Netac ODF, 64M Netac ODN (upgraded), 32M Netac OSC 64M, 32M Netac U200, 128M Newman Flash Disk, 32M Newman V3, 2GB Newman V6, 1GB PNY Attaché, 1G PNY Attaché, 1G RUNDISK RM-UR03, 128M Samsung, 64M SanDisk, 1G Shinco, 1G SMART, 128M UNIbit, 128M Unis Z-301, 4GB
	Incompatible USB Flash Drives (FAT3	2)
	 Aigo Mini Type Generation II, 1GB Aigo Mini Type Generation II, 256M Kingsoft MD09, 1G 	 Kingsoft MD2007, 1G/2G Kingston Data Traveler, 1GB Unis Chac USB2.0, 1GB
	Compatible USB HDD (FAT32)	
	 Aigo Generation III, 80G Aigo Portable Storage H8165, 250G Aigo Portable Storage II (Smart Security), 40G IBM, 20G/30G Lenovo, 80G NESO N2501S, 500G NESO N2502B, 500G NESO N3501B, 1T Newman Newsmy, 40G Newman Traveller, 2.5T/40G 	 Newman YDStar E80, 160G OMATA 3.5" Portable HD Enclosure PC HD+YDStar Disk Enclosure Samsung NM-0704, 160GB Seagate FreeAgent Go, 160G STYSEN E02 HD Enclosure+Samsung Kinpo 2.5" HI YDStar (Sony)+Mobile PC HD YDStar Su35 External HD Enclosure plus Seagate 7200.7 80G HD
	Compatible USB R/W	
	 Aigo ME-335U2 Aigo YDStar Aigo F5232BU ASUS CRW-4824A+YDStar USB Adapter Box BenQ (CD/DVD) EW164B BENQ 5232WI-ok2 BENQ EW162I-OK2 BenQ TW200D IMPRESS 	 LG GSA-E60N LG(CD/DVD) GSA-E10L Samsung SE-S204 Samsung (CD/DVD) SE-S164 Sony +YDStar USB Adapter Box Sony CD-R/RW CRX225E+Adapter Cable Sony CD-R/RW CRX230AD+Adapter Cable
	Compatible SATA R/W	
	 ASUS DRW-22B1ST LG GH20NS10 LG GH22NS50 LITEON iHAS324-26 Y Panasonic SW-9588-C Pioneer DVR-212CHG 	 Pioneer DVR-217CHG Samsung SE-S204 Samsung SH-S223 Samsung TS-H653F Sony AD-7200S Sony AW-G170S
	Compatible IDE R/W	
	 ASUS DVD (IDE) DRW-1608P3S ASUS DVD (IDE) DRW-1814BL ASUS DVD (IDE) RD-W8141LB BenQ DVD (IDE) DW1670 BenQ DVD (IDE) DW1680 LG CD-R/RW GCE-8525B LG DVD (IDE) GSA-H12N LG DVD (IDE) GSA-H20L LG GH22NP20 	 LG GSA-H55N NEC DVD P/RW & CD-R/RW ND-3500A Samsung DVD (IDE) TS-H652 Sony CD-R/RW CRX225E Sony DVD (IDE) DW-G120A Sony DVD (IDE) DW-0120A Toshiba Samsung CD-RW SH-R522 Toshiba Samsung DVD Writer SH-S182

Troubleshooting the IR Remote Control

If this happens	Try this
The Status indicator does not turn green and there is still no response from the remote.	 Check the following: Ensure that the batteries are properly installed, and that the polarities of the batteries are not reversed. Ensure that the batteries are fresh and are not out of charge. Ensure that the IR receiver is not obstructed. Ensure that no fluorescent lamp is used nearby.

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C

Specifications

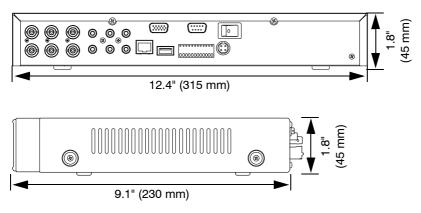
This Appendix provides the specifications for the HRG Performance Series DVRs. s

Specifications	
Remote Access	
Sessions Maximum 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 $^{\textcircled{B}}$, Android
Recorder Unit	
Video Standard	NTSC or PAL software selectable
Color 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 1TB
Recording Rate @ 4CIF (Global)	Up to 480 ips (NTSC), 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

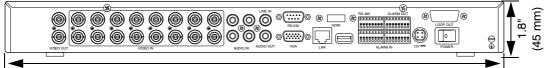
Specifications	
Connections	
Video Input	4/8/16, BNC 1 Vp-p @ 75 ohms
Video Output	1 - Composite main monitor, BNC 1 Vp-p @ 75 ohms 1 - VGA Main Monitor 1 - Spot BNC 1 Vp-p @ 75 ohms
Audio Input/Output	Input: 4 channel, line level Output: 1 channel, line level
Sensor Inputs General Purpose	4 inputs (4ch) – 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 on the front panel and another on the rear panel 1 – RS485 terminal block 1 – RS232
Primary Storage	SATA HDD
Networking	RJ45 10M/100M self-adaptive Ethernet interface
Electrical	
Input Voltage	12 V DC power adapter
Power Consumption	HRG4 and HRG8 25 W (max) HRG16 30 W (max)
Mechanical	
Dimensions (W x D x H)	4ch unit: $12.4 \times 9.1 \times 1.8$ in. $(315 \times 230 \times 45 \text{ mm})$ 8/16ch unit: $17.5 \times 11.4 \times 1.8$ in. $(445 \times 290 \times 45 \text{ mm})$
Weight	HRG4 \leq 5.7 lbs (\leq 2.6 kg) HRG8 and HRG16 \leq 10.1 lbs (\leq 4.6 kg)
Construction	Housing: Steel chassis
Environmental	
Temperature	Operating: 32°F to 104°F (0°C to 55°C) Storage: –22°F to 176°F (–30°C to 80°C)
Relative Humidity	10% to 90%, non-condensing
Regulatory	
Emissions	FCC Part 15B, Class A
Immunity	EN50130-4:1995+A1:1998+A2:2003
Safety	CSA/UL 60950-1, 2nd Edition

Dimensions

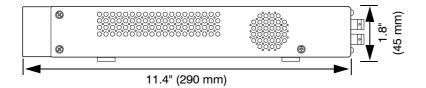
HRG4



HRG8 and HRG16 (HRG16 shown)



17.5" (455 mm)



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