

Honeywell Performance Series .

Performance Series HQA Digital Video Recorder

DVR Models

HRHT4040	HRHT4080	HRHT4160
HRHT4041	HRHT4082	HRHT4162
HRHT4042	HRHT4084	HRHT4164
		HRHT4166
		HRHT41612

Local User Guide

Issue	Date	Revisions
А	04/2018	New document

Cautions and Warnings



WARNING Use only with the supplied power adapter. The Ethernet connection is not intended to be connected to an exposed (outside plant) network.

CAUTION There is a risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries in accordance with local laws.

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

Regulatory Statements

FCC Compliance Statement

Information to the User: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receivingantenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada.

Manufacturer's Declaration of Conformance

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 European Parliament and Council Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (2011/65/EU), the Low Voltage Directive (2014/35/EU), and the essential requirements of the EMC directive (2014/30/EU), conforming to the requirements of standards EN 55032 for emissions, EN 50130-4 for immunity, and EN 60950-1 for electrical equipment safety.

This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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.
- 3. **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 1.800.323.4576 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 Honeywell Performance Series HQA4 MP Digital Video Recorder (DVR) and provides instructions for installing and operating the DVR.

These instructions apply to the following Performance Series HQA models:

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

Overview of Contents

This document contains the following chapters and appendixes:

- *Chapter 1, Introduction*, describes the front and rear panel layout of the DVR, and mouse and remote control functions.
- *Chapter 2, Getting Started,* describes how to connect the DVR and log on to its user interface.
- *Chapter 3, Viewing Live Video*, describes the DVR's real-time monitoring mode and associated DVR operations, including controlling a PTZ camera (if connected).
- *Chapter 4, Recording Video,* describes how to record a video clip manually and how to set up automatic recording.
- *Chapter 5, Playing Back Video,* describes how to search for and play back recorded video and snapshots, and how to save recorded files to an external storage device.
- Chapter 6, Configuring Face Search, describes how to configure Face Search function.
- *Chapter 7, Configuring Backup Settings,* describes how to configure the Backup function.
- *Chapter 8, Configuring Camera Settings*, describes how to configure camera image settings, encoder settings, snapshot settings, privacy mask settings, camera name settings, and channel type settings.
- Chapter 9, Configuring Network Settings, describes how to configure the DVR's network settings, including connection settings, email settings, FTP settings, registration settings, and alarm center settings.
- *Chapter 10, Configuring Event Settings*, describes how to configure the DVR's alarm settings, including settings for motion detection, video loss, camera tampering, and system events.
- *Chapter 11, Configuring Storage Settings,* describes how to configure the DVR's storage settings, including recording settings and HDD management settings.
- Chapter 12, Configuring System Settings, describes how to configure DVR system settings, display settings, and user accounts; export and import configuration settings to and from other DVRs; restore default settings; and upgrade the system firmware.
- *Chapter 13, Viewing Information,* describes how to view system, event, network, and log information.
- *Chapter 14, Troubleshooting,* lists troubleshooting steps for resolving errors that you may encounter when operating the DVR.
- Appendix A, Installing Hard Drives, lists the manufacturers and models of compatible HDDs, including SATA HDDs and portable HDDs, and provides instructions for installing an additional HDD.
- Appendix B, MAXPRO[®] Cloud, describes how to configure the MAXPRO[®] Cloud.

Related Documents

The following related documents are supplied with the DVR:

- Performance Series HQA DVRs Remote User Guide
- Performance Series HQA DVRs Quick Installation Guide
- Performance Series HQA DVRs Quick Networking Guide

To access a PDF version of these documents, visit the Performance Series HQA DVR product page at www.honeywellvideo.com/products/video-systems/recording-devices/index.html.

1. Introduction

This chapter includes the following sections:

- Front and Rear Panel Layouts on page 1
- 8-/16-channel DVR Rear Panel on page 5
- Remote Control Operation on page 8

Front and Rear Panel Layouts

4-channel DVR Front Panel

Figure 1-1



	Name	Function
1	HDD Indicator	Lights red when an HDD error occurs or when the HDD capacity is below the configured threshold.
2	NET Indicator	Lights red when a network error occurs or when there is no network connection.
3	POWER Indicator	Lights blue when the DVR receives power.
4	USB 2.0 Port	Connects USB devices (USB flash drive, mouse).

4-channel DVR Back Panel



	Name	Function
1	Video In	BNC connectors for HD-over-coax/CVBS video input.
2	Audio in/out ports	RCA connectors for audio input (microphone) and audio output (speaker, header).
3	VGA port	VGA connector for analog video output.
4	Power switch	Switch for turning DVR On/Off.
5	Ground	Ground terminal.
6	HDMI port	HDMI interface for transmitting high definition audio and video output.
7	Network port	RJ45 100M Ethernet interface for connecting to local area network (LAN).
8	RS485 port	RS485 interface for connecting RS485 devices (PTZ cameras).
9	USB 2.0 port	USB 2.0 interface for connecting to USB device (mouse, USB flash drive, portable HDD).
10	Power input	12 V DC power input.
11	RS232 port	RS232 interface for configuring IP addresses or transferring transparent COM data.

8-/16-channel DVR Front Panel



	Name	Function
1	HDD indicator	Lights red when an HDD error occurs or when the HDD capacity is below the configured threshold.
2	NET indicator	Lights red when a network error occurs or when there is no
3	Power button	Turns DVR On/Off.
4	IR receiver	Receives the IR signal from the remote control.
5	SHIFT	Text mode : Switches between uppercase and lowercase letters.
		Switches between function input mode and number/letter input mode.
6	FN	Single-window live view mode : Displays the Assistant function or configures the image color.
		Text mode : Deletes the last entered character when pressed and held for 1.5 seconds.
		HDD management: Switches HDD recording information.
7	Record button	Live view mode: Starts/stops recording.
8	Play Previous button / 0	Playback mode : Plays the previous video. Text mode : Enters the number 0.
9	Play Next button / 9	Playback mode: Plays the next video. Text mode: Enters the number 9.
10	Slow Play button / 8	Playback mode : Plays back video at various speeds. Text mode : Enters the number 8 or the letters T, U, or V.
11	Fast Forward button / 7	. Playback mode : Plays back video at various speed. Text mode : Enters the number 7 or the letters P, Q, R, or S.

12	Reverse / Pause button / 6	Playback mode : Plays back video in reverse, pauses playback.
13	Play / Pause button / 5	Playback mode : Plays back video, pauses playback.
		Text mode : Enter the number 5 or the letter J, K, or L.
14	ESC	Live view mode: Returns to the previous menu or cancels the current operation.
		Playback mode: Returns to Live View mode.
		Menu setup: Navigate up and down, increase or decrease numbers.
15	Directions keys ▲● ▼/ 1, 2, 3, 4	PTZ mode : Call up the assistant function for the PTZ menu.
		Text mode : Enter the numbers 1, 2, 3, or 4, or the letters A, B, C, D, E, F, G, H, and I.
		Menu setup: Confirms Selection.
16	Enter	Go to Default.
		Go to Menu.

8-/16-channel DVR Rear Panel

Figure 1-4



	Name	Function
1	Video in	BNC connectors for HD-over-coax/CVBS video input.
2	Audio in/outputs	RCA connectors for audio input (microphone) and audio output (speaker, header).
3	Network port	RJ45 100M Ethernet interface for connecting to local area network (LAN).
4	RS485	RS485 interface for connecting RS485 devices (PTZ cameras).
5	VGA port	VGA connector for analog video output.
6	Power switch	Switch for turning DVR On/Off.
7	Ground	Ground terminal.
8	HDMI port	HDMI interface for transmitting high definition audio and video output.
9	USB 2.0 port	USB 2.0 interface for connecting to USB device (mouse, USB flash drive, portable HDD).
10	Power input	12 V DC power input.
11	RS232 port	RS232 interface for configuring IP addresses or transferring transparent COM data.

Mouse Operation

Your Performance Series HQA DVR is optimized for mouse navigation. Use the supplied mouse to set up the DVR.

Figure 1-5

Button	Action
1.Left	 Click to select a menu option. Click in text field to display on-screen keyboard. Click on-screen keyboard to input letters/numbers. In multi-screen view, double-click to view the channel full screen. Double-click again to exit full screen mode. Double-click video filename to play video.
2.Right	 Click to close menu window without saving changes. Click to exit main menu to return to live view screen. Click to open shortcut menu from live view screen.
3.Wheel	Scroll up/down.

Using the On-screen Keyboard

1. To display the on-screen keyboard, click in a text box. The keyboard appears directly below the text box.

	123
qwertyuiop/	456
asdfghjkll:Enter	789
zxcvbnm,.Shift	

	123
	456
ASDFGHJKL:Enter	789

- 2. Click the key corresponding to the letter/number/special character that you want to input in the text box.
 - To switch between the lowercase and uppercase letters, click Shift.
 - To delete the previous character, click the < _ _ _ _ key.
 - To insert a space, click the Lakey.
- 3. Click **Enter** to close the on-screen keyboard.

Remote Control Operation

It is strongly recommended to use a mouse to operate the DVR. However, you can also use the supplied IR remote control. The following table describes basic remote control operations:

Figure 1-6



	Button	Action
1	Power	Turn DVR on/off.
2	Add (Address)	Enter number of device that you want to control.
3	Forward	Increase forward playback speed.
4	Slow Play	Decrease forward playback speed.
5	Next Record	Select next video for playback.
6	Previous Record	Select previous video for playback.
7	Play/Pause	Pause/resume forward playback.
	Play/Pause	In live view mode, enter video search mode.
8	Reverse/Pause	Pause/resume reverse playback.
9	Esc	Return to previous menu or cancel current operation.
		Manually start/stop recording.
10	Rec	Whileinrecordinginterface, use direction buttonsto select recording channel. Press and hold record button to enter manual recording interface.
		Use left/right keys to switch currently activated control.
11	Direction Keys	Whileinplaybackmode,useup/downbuttonsto change playback channel.
12	Enter	Go to default. Go to menu.
13	Mult	Switch between multi-channel view and single-channel view.
14	Fn	In single-monitor mode, using popup assistant function, control PTZ cameras or adjust video color. In PTZ control mode, switch the PTZ control menu. Intextmode,pressandholdbuttontodeletelastcharacter.
15	Alphanumeric Keys	Enterpasswordsorswitchchannels.Press Shift to switch input method.

2. Getting Started

This chapter includes the following sections:

- Unpacking the DVR, page 9
- Connecting External Devices, page 9
- Starting and Shutting Down the DVR, page 12
- Setting Up the DVR with the Startup Wizard, page 20

Unpacking the DVR

Before you set up the DVR, make sure that you have received the following items:

- Quick Installation Guide
- Quick Networking Guide
- Software CD
- Power adapter and cable
- Remote control (8- and 16-channel DVRs only)
- CAT5e network cable
- Terminal block connectors (×2)
 Screws (×4 for 4-channel: x10
- Screws (×4 for 4-channel; x10 for 8-/16-channel)
- Power cable(s)

- Mouse
- Serial ATA (SATA) cable(s) (×1 for 4-channel; x2 for 8-/16-channel

If any of the items listed above are missing or damaged, contact your Honeywell dealer immediately.

Connecting External Devices

Step 1: Connect the cameras

Connect the coaxial cables from the cameras to the VIDEO IN connectors (1 Vp-p, 75 ohm).

Step 2: Connect the monitor

Connect a VGA cable (not supplied) to the VGA interface and/or an HDMI cable (not supplied) to the HDMI interface. Connect the other end to a monitor (do not use a TV). Simultaneous VGA and HDMI output is supported.

Step 3: Connect the mouse

Connect the supplied USB mouse to the USB 2.0 interface.

Step 4: Connect the Ethernet cable

Connect the supplied CAT5e Ethernet cable to the network port. Connect the other end to a router on your network.

Step 5: Connect audio devices (if applicable)

To record audio, connect the audio sources to the AUDIO IN connectors. To play audio, connect an audio output device (low-impedance headphones, speaker, or amplifier) to the AUDIO OUT connector (200 mV / 1 kilohm).

Step 6: Connect a PTZ camera (if applicable)

To communicate with a PTZ camera, connect it to the RS485 A and B input. It is recommended to use shielded twisted pair cable with the shielded layer used to connect to the ground. The ground should be the same as for the DVR and the voltage between the A and B lines should be less than 5 V.

Step 7: Connect the power cable

Connect the supplied 12 V DC power adapter to the power input. Use of an uninterruptible power supply (UPS) is strongly recommended.

Typical DVR Installation

The following diagram shows a typical DVR installation:



Starting and Shutting Down the DVR

Starting the DVR

- 1. Verify that the DVR is connected to an appropriate power source.
- 2. Turn on the power switch on the rear panel to start the DVR.

Note The beep at startup is normal.

Shutting Down the DVR

Note	To shut down the DVR, you must be logged in as the admin user or have shutdown
Note	privileges assigned to you. See Configuring Account Settings on page 129.

To prevent damage to the hard drive, follow these steps to shut down the DVR:

- 1. In live view mode, click anywhere on the screen to display the shortcut menu, and then click Main Menu.
- 2. In the Main Menu window, click **Shutdown**.
- 3. In the Shutdown window, click **Shutdown** or **Reboot**.
- 4. Enter the admin password (the default password is 1234), and then click **OK**.

Booting Up the DVR

WARNING

The rated input voltage matches the device power on-off button. Please make sure the power wire connection is OK. Then click the power on-off button.

To protect device, please connect device to the power adapter first and then connect the power cable.

Always use the stable current, if necessary UPS is a best alternative measure.

Please follow the steps listed below to boot up the device.

- 1. Connect the device to the monitor and then connect a mouse.
- 2. Connect power cable.
- 3. Click the power button at the front or rear panel and then boot up the device. After device booted up, the device is in multiple-channel display mode by default. If the boot up time is in the record period, the device automatically goes to auto record mode, the corresponding channel indicator light is on, and device is working properly.

Device Initialization

If it is your first time to use the device, please set a login password of admin (system default user).

Note For your device safety, please keep your login password of admin well after the initialization steps, and change the password regularly.

Steps:

1. Boot up device. The device displays device initialization interface. See Figure 2-2.

Device Initialization			Honeywell
1 Enter Password	2 Unlock Pattern	3 Pas	ssword Protection
User	admin		
Password			
	8~12 characters allowe	ed	
	At least one upper cas	e letter	
	At least one lower case	e letter	
	At least one number		
	At least one special ch	aracter	_
Confirm Password			
Prompt Question			
			Next

Figure 2-2

2. Set login password of admin.

User name: The default user name is admin.

Password/confirm password: The password ranges from 8 to 32 digitals. It can contain letters, numbers and special characters (excluding "", "", ";", ";", "&"). The password shall contain at least two categories. Usually we recommend the strong password.

Prompt question: If you set the prompt question here. On the login interface, click evice can display the corresponding prompt question for you to remind the password.

WARNING

STRONG PASSWORD RECOMMENDED-For your device own safety, please create a strong password of your own choosing. We also recommend you change your password periodically especially in the high security system.

3. Click **Next**. The device goes to unlock pattern interface. See *Figure 2-3*.

Device Initialization					Honeywell
Enter Password	2 Uni	ock Pattern	3	Password Protection	
					2
			\bullet		
	\bullet	\bullet	\bullet		
	Please	draw the unlock p	pattern.		
Back					Skip

Figure 2-3

- 4. Set unlock pattern. After set unlock pattern, device goes to password protection interface. See *Figure 2-4*.
 - The unlock pattern shall at least contain 4 grids.
 - Device adopts unlock pattern to login by default if you have set pattern here. If there is no unlock pattern, please input the password to login.
 - Click **Skip** if there is no need to set unlock pattern.



Figure 2-4

Note

5. Input Email Address.

Email: Input an email address for reset password purpose. In case you forgot password in

the future, input the security code you got on the assigned email to reset the password of admin. If you have not input email here or you need to update the email information, go to the **Main Menu->Setting->System->Account** to set.

You can use the email you input here or answer the security questions to reset admin password. Refer to *Reset Password* on page 15 for detailed information.

Deselect the email box and then click **Next** button to skip this step.

6. Set security questions.

Security question: Set security questions and corresponding answers. Properly answer the questions to reset admin password. In case you have not input security question here or you need to update the security question information, go to the **Main menu->Setting->System->Account** to set.

Deselect the security questions box and then click **Next** button to skip this step.

7. Click **Save** to complete the device initialization setup.

Reset Password

If you forgot admin login password, there are two ways for you to reset password.

- When password reset function is enabled, scan the QR code on the user interface and use the email to reset password.
- When the password reset function is disabled, answer the security questions to reset password. If you have not set security questions, system pops up "Password reset function has been disabled" dialogue box, please use the reset button on the mainboard to restore factory default settings.

Steps:

- 1. Go to the device login interface. See Figure 2-5 or Figure 2-6..
 - If you have set unlock pattern, device displays unlock pattern login interface. See *Figure 2-5*. Click "Forgot unlock pattern", device goes to *Figure 2-6*.
 - If you have not set unlock pattern, device displays password interface. See *Figure 2-6*.

Click Switch User button in Figure 2-5 or click the user name in Figure 2-6Noteand then then select a user from the dropdown list, you can login via other
account.

Forgot Unlock Pattern Switch User

Figure 2-6

SYSTEM LOGIN Ho	neywell
User Name admin Password Forgot Password	
OK Cancel	

- 2. Click 🔽
 - If you have not input email address information when you are initializing the device, the interface is shown as in *Figure 2-7*. Please input an email address and then click **Next**, devices goes to *Figure 2-8*.
 - If you have input email when you are initializing the device, device goes to *Figure 2-8*.

Figure 2-7

Reset the password	Honeywell
Reset Type QR Code	
Email Address	
To reset password, please input properly or update in time	
	ļ
Cancel	

Figure 2-8

Reset the password	Honeywell
Reset Type QR Code I	
SN: A059500544	
Scan the QR code on the actual interface	Note(For admin only): Please use an APP to scan the left QR code to get special strings. And then send the strings to support_ gpwd@htmicrochip.com.
The security code will be delivered to 1***@ABC.COM. Security code	
Cancel	Next

3. Reset login password.

There are two ways to reset the password: Scan QR code and reset by email/security questions (local menu only).

• Email : In *Figure 2-8*, follow the prompts on the interface to scan the QR code, and then input the security code you get via the assigned email.

WARNING: For the same QR code, max scan twice to get two security codes. Refresh the QR code if you want to get security code again.

The security code on your email is only valid for 24 hours.

• Security questions: In *Figure 2-7*, select security question from the drop down list. Device displays security question interface. See Figure 2-9. Please input the correct answers here.

NoteThere is no security question item from the dropdown list if you have
not set the security question and corresponding answers when
initializing the device.

Figure 2-9

Reset the pa	assword	Honeywell
Reset Type	Security Questions	
Question 1 Answer	What is your favorite children's book?	
Answer		
Question 2	What was the first name of your first boss?	
Answer		
Question 3	What is the name of your favorite fruit?	I,
Answer		
	Cancel	

4. Click **Next**. Device displays reset password interface. See *Figure 2-10*.

Figure 2-10

Reset the passwor	Honeywei
Reset password of	(admin)
New Password	8~12 characters allowed At least one upper case letter At least one lower case letter At least one number
	At least one number At least one special character
Confirm Password	
	Cancel Save

5. Input new password and then confirm.

WARNING: STRONG PASSWORD RECOMMENDED-For your device own safety, please create a strong password of your own choosing. The password shall be at least 8-digit containing at least two types of the following categories: letters, numbers and symbols. We also recommend you change your password periodically especially in the high security system.

6. Click **Save** to complete the reset setup.

Note: A dialogue box pops up asking you to synchronize the password to the camera connecting by the default protocol. Click **OK** to change the camera password.

The following window pops up if there is a digital channel.

Reset the passwore		Honeyw
Reset password of ((admin)	
New Password	eren en e	
	At least one upper case latter At least Message Honeywell At least Do you want to sync Password with the remote At least device connecting via the default protocol?	
Confirm Password		
	OK Cancel	
	Cancel	

Figure 2-11 Reset the Password - Synchronization



1	Channel	IP Address	Results	
1	8	10.18.123.135	Password:Succeed	

Setting Up the DVR with the Startup Wizard



Startup Wizard	Honeywell
Welcome to use startup wizard. This startup wizard will help you set parameters. Click Next to ✔ Startup	
Next (Cancel

The Startup Wizard opens by default when you turn on the DVR.

Using the wizard, you can:

- Configure general settings (device name, number, language, video standard)
- Set the date and time
- Configure network settings
- Link your Honeywell smartphone app to the DVR
- Configure video encoding settings
- Set up a recording schedule
- Configure recording settings

If you want to bypass the wizard and go directly to live view, click Cancel. ToNoteprevent Startup Wizard from opening the next time you start the DVR, de-select
the Startup check box.

Using the Startup Wizard

1. Click **Next** to go to the System Login window.

Figure 2-14

Startup Wizard	Honeywell
Welcome to use startup wizard. This startup wizard will help you set parameters. Click Next to ✔ Startup	
Next	Cancel

2. Draw the password pattern or click **Forgot Unlock Pattern** to input the password to go to the General window.

GENERAL				Honeywell
General	Date&Time	Holiday		
Device Name	HCVR-4FR	4-H1		
Device No.	8			
Language	ENGLISH	I.		
Video Standaro	PAL	I.		
HDD Full	Overwrite	I.	~	
Pack Mode	Time Lengt	h I• 60	min.	
Instant Play	5	min.		
Auto Logout	10	min.		
🗹 IPC Time S	ync 24	h		
🗹 Navigation	Bar			
Mouse Sensitiv	vity Slow	Fast		
Default				Apply
		-44		Back Next

Figure 2-15

For more information about configuring settings in the General window, see *Configuring System Settings* on page *115*.

3. Click **Next** to go to the Network window.

NETWORK		
IP Version MAC Address Mode IP Address Subnet Mask Default Gateway	IPv4 I→ 3C:EF:8C:13:9B:3C ● STATIC O DHCP 172 . 8 . 1 . 33 1 Test 255 . 255 . 0 . 0 172 . 8 . 0 . 1	
Preferred DNS Alternate DNS	8 . 8 . 8 . 8	
MTU	1500 LAN Download	
Default	Back Next C	ancel

Figure 2-16

For more information about configuring settings in the **Network** window, see *Configuring TCP/IP and Port Settings* on page 71.

4. Click **Next** to go to the P2P window.

Figure 2-17

P2P	Honeywell
S Enable	
Status Offline	
Device SN	
2J018EFPAEFFM02	
	k
	Back Next Cancel

For more information about P2P, see *Configuring P2P Settings* on page 83.

5. Click **Next** to go to the Encode window.

E	NCODE					
	Encode	Snapshot	Overlay			
	Channel	1	I.			
	Туре	Regular	I.	Sub Stream1	I -	
	Compression	H.264H	1-	H.264H	IT.	
	Smart Codec	Stop	1-			
	Resolution	960*576(960H)	IT	352*288(CIF)	IT.	
	Frame Rate(FPS)	25	1-	15	IT.	
	Bit Rate Type	CBR	I.	CBR	I.	
	l Frame Interval	15	IT	15	IT.	
	Bit Rate(Kb/S)	1024 1-	R	320 1-		
	Reference Bit Rate	256-3072Kb/S		32-640Kb/S		
	Audio/Video	•				
	Audio Format	G711a	I -	Audio Source	LOCAL I-	
	Default Cop	PY D			Apply	
					Back Next	

Figure 2-18

For more information about configuring settings in the Encode window, see *Configuring Encoding Settings* on page 62.

6. Click **Next** to go to the BASIC window.

Figure 2-19

BASIC	Honeywell
HDD Full Overwrite Iv Pack Mode Time Length Iv 60 min. Auto-Delete Old Files	
Never I-	
Delault Back Next C:	ancel

7. Click **Next** to go to the Schedule window.

Figure 2-20

SCHEDULE								Hor	eywell
Record	Snapsh	ot							
Channel 1	Pre-recor	d 4	sec. 🔲 Re						
	Regular	MD	Alar		MD&/		Intel		
□ Sunday	2 4	68	10 12	14	16 18	20	22 2	4	ø
Monday									* ¢
 Tuesday 									* ¢
Wednesday								1	÷.
Thursday	· I · I ·								÷.
Friday									å
Saturday									å
, E				- x -				•	
Default	Сору							Appl	
						Ba	ck (Ne	ext

For more information about configuring settings in the **Schedule** window, see *Configuring the Video Recording Schedule* on page 39.

8. Click **Next**. The "Thank You" message appears:



	Honeywell
INFO	
Ne HDD	
Nei Disconnect	
ge Honeywell Thank you for purchasing our product!	
	1 Ne HDD Nei Eisteanneut ge Honeywell

9. Click **OK** to close the wizard.
3. Viewing Live Video

This chapter includes the following sections:

- About Live View, page 25
- Configuring Live View, page 29
- Controlling PTZ Cameras, page 30

About Live View

Live view is the DVR's default mode. When you start the DVR, live video from the connected cameras is displayed on the screen in a multi-channel layout (the number of channels displayed depends on whether you are using a 4-channel, 8-channel, or 16-channel DVR).

Figure 3-1





Figure 3-2 Live View Window (Single Channel)

Camera Status

Camera status icons appear at the bottom of the channel window.



Video is being recorded Motion detected in scene No video signal



Camera Toolbar

A camera toolbar is located at the top of each channel window. To display the toolbar, move the mouse pointer to the top of the channel window.



0,	ZOOM	Enlarge a specific area of the image. Click the button to enable digital zoom and then drag the mouse in the channel window to select the area that you want to enlarge.
F	REALTIME BACKUP	Save a clip to a USB storage device. Click the button to start recording. Click again to stop recording. The clip is automatically saved to the connected USB storage device.
	MANUAL SNAP	Save a screen capture to the hard drive or to a connected USB storage device. To view the captured image, go to Main Menu > Operate > Search and click the File List button.
■))	MUTE	Mute the video sound (if applicable). Click the button to mute sound. Click again to enable sound. Note: Mute only works in single-channel view.

Live View Toolbar

Figure 3-4

____() 🗆 🗆 🗆 🖿 🖼 🚱 🔃 🚖

If enabled, the live view toolbar appears along the bottom of the live view screen.

The toolbar is disabled by default. To enable it, right-click and go to **Main Menu > Setting > System > General > General** and select the **Navigation** check box and then click **Apply**. Rightclick twice to return to the live view screen. Click anywhere on the screen to display the toolbar.

Table 3-2

(Main Menu	Open the main menu.
	Expand/ Condense Toolbar	Expand or condense the toolbar
	Screen Layout	Select screen layout format.
	Previous/Next Screen	Navigate to the previous or next screen/channel.
	Tour Switch	Enables tour (automatically cycles through channel views). See <i>Configuring Tour Settings</i> on page 121.

食	Favorites	Add/edit favorites. You can configure and save your favorite screen layout(s) so you can access them quickly.
	Channel	Click to select a channel.
	Pan/Tilt/Zoom	Open the PTZ control panel. See <i>Controlling PTZ Cameras</i> on page <i>30</i> .
<i>?</i>	Color Setting	Open the Color Setting window. See Setting the Monitor Picture on page 29.
\bigcirc	Search	Open the playback interface. See <i>Playing Back</i> <i>Video</i> on page 44.
	Event	Open the Event information window.
i - i	Channel Info	Open the Channel Info window.
\$	Camera Registratio	n Click to register or add an IP camera. See Registering/Finding an IP Camera on page59.
2	Network	Open the Network window. See <i>Configuring TCP/IP and Port Settings</i> on page 71.
	HDD Manager	Open the HDD Manage window. See <i>Configuring HDD Settings</i> on page <i>110</i> .
	USB Manager	Open the USB Manage window.

Shortcut Menu

Figure 3-5

View 1 💦 🕨
View 4
Previous Screen
Next Screen
PTZ
Auto Focus
Color Setting
lmage
Display 🔸
Camera Menu
Face Search
Search
Manual 🔶 🕨
Camera Registration
Video Matrix
Main Menu

The shortcut menu is displayed by right-clicking anywhere on the screen in live view mode.

Configuring Live View

Setting the Screen Layout

The live view interface is configurable as a single-channel or multi-channel display.

To change the screen display format using the shortcut menu

- 1. Right-click anywhere on the screen to display the shortcut menu.
- 2. Point to the View you want (View 1 is a single-channel layout, the others are multichannel layouts), and then click the channel(s) that you want to display.

To change the screen display format using the live view toolbar

• Click a screen layout button on the live view toolbar.

To change the screen display format using the mouse

• Rotate the mouse wheel button.

To move a channel to a different location in the multi-channel grid

• Drag the channel to a new location in the multi-channel grid.

For example, to move channel 2 to the top left position occupied by channel 1, click channel 2, drag it to channel 1's position, then release the mouse button.

Setting the Monitor Picture

You can configure different monitor picture settings for up to two time periods per day to accommodate changing lighting conditions.

To configure monitor picture settings

- 1. Right-click anywhere on the screen to display the shortcut menu.
- 2. Click Color Setting. The Color Setting window opens.

COLOR		Honeywell
Period	Period 1	
Effective Time	☑ 00:00 - 24:00	
Sharpness	△ 0	
Hue		
Brightness	* 50	
Contrast	© 50	
Saturation	么 50	
Color Mode	Standard I-	
EQ	• •	0
Position		
Customized	Default OK Canc	el

- 3. In the Effective Time box, input the time range during which the settings will apply (for example, during daylight conditions from 07:00 19:00).
- 4. In the Color Mode box, select one of the preconfigured modes (Standard, Soft, Bright, Colorful, Bank, or Customized 1-4) or customize your own settings.

To customize your own settings, click **Customized** and define the following settings:

- Sharpness (0–15)
- Hue (0–100)
- Brightness (0– 100)
- Contrast (0–100)
- Saturation (0–100)
- 5. To configure settings for the remaining time, in the Period box, select Time Period 2, input the Effective Time, and select a Color Mode or adjust the settings manually.
- 6. Click **OK** to save your settings.

Controlling PTZ Cameras

This section describes how to configure PTZ connection settings, how to access the PTZ control panel, and how to configure and call PTZ presets, tours, and patterns.

To control PTZ cameras through the PTZ Control Panel, you will first have to configure the PTZ connection settings.

Configuring PTZ Connection Settings

Before you can control a PTZ camera with the DVR, you must configure the PTZ connection settings.

To configure the PTZ connection settings

- 1. Go to Main Menu \rightarrow Setting \rightarrow System.
- 2. In the left navigation pane, click PTZ.

Figure 3-7

- J				
SETTING				Honeywell
To CAMERA	7 NETWORK	THE EVENT	STORAGE	SYSTEM
GENERAL DISPLAY VIDEO MATRIX RS232 PTZ ATM/POS VOICE ACCOUNT SECURITY AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Channel Control Mode Protocol Address Baudrate Data Bits Stop Bits Parity	1 I▼ Serial I▼ NONE I▼ 1 9600 I▼ 8 I▼ 1 I▼ None I▼		
	Default	Сору	Save	Cancel Apply

- 3. Configure the following settings:
 - **Channel** Select the channel (camera) that you want to configure PTZ settings for.
 - Control Mode Select HQA.
 - **Protocol** Select the camera's PTZ control protocol from the list.
 - Address Enter the camera's address (ID).
 - **Baudrate** Select a value between 1200 and 115200. The default setting is 9600.
 - **Data Bits** Select a value between 5 and 8. The default setting is 8.
 - **Stop Bits** Select 1, 1.5, or 2. The default setting is 1.
 - Parity Select None, Odd, Even, Mark, or Space.
- 4. Click **Apply**, and then click **Save** to save your settings and exit.

Working with the PTZ Control Panel

You can control a PTZ camera connected to the DVR's RS485 serial port using the on-screen PTZ control panel.

Basic PTZ Control Panel

Right-click anywhere on the live screen and click **PTZ** to pen the PTZ Control Panel.



Table 3-3

#	Name	Function	
1	Direction keys	Direct camera movement.	
2	Speed	Adjust the camera speed. Select a value between 1 and 8.	
3	Expand Arrow	Expand the control panel to display additional options.	
4	4 PTZ Trace Direct camera movement by dragging the mouse. Zoo and out by rotating the wheel button.		
		Adjust the camera's zoom, focus, and iris settings:	
_	Zoom, Focus, Iris	Decrease zoom (–), increase zoom (+)	
5		Focus near (–), focus far (+)	
		lris close (–), iris open (+)	

Expanded PTZ Control Panel

Figure 3-9



Table 3-4

#	Name	Function
1	Preset, Tour,	Configure/call PTZ functions.
2	No.	Enter number of PTZ function to call.
3	Aux	Call auxiliary functions.
4	Enter Menu	Enable up-the-coax OSD menu configuration for non-PTZ
5	AutoScan	Cause camera to continually pan between two points that you have defined.
6	AutoPan	Cause camera to continually rotate 360 degrees.
7	Flip	Cause camera to rotate 180 degrees.
8	Reset	Restore default settings.
9	Aux Config	Configure auxiliary functions.

To display the PTZ control panel

- 1. Right-click anywhere on the screen to display the shortcut menu.
- 2. Click **Pan/Tilt/Zoom**. The PTZ control panel opens.

Figure 3-10



3. To expand the PTZ control panel, click the arrow at the right side of the panel.





Configuring PTZ Functions

You can configure presets, tours, patterns, and borders using the PTZ control panel.

Configuring PTZ Preset

You can program preset positions for the PTZ camera. For example, you can point the camera at a specific location, such as a doorway, when an alarm event occurs.

To program a preset

1. On the expanded PTZ control panel, click the **Preset** button.

Figure 3-11



2. Use the direction arrows to point the camera where you want to set as the preset, and then click **Set**.





- 3. In the Preset box, enter a number for the preset, and then click **Set** to save your settings.
 - To program additional presets, repeat steps 1 through 3.
 - To delete a preset, enter the number of the preset that you want to delete in the **Preset** box, and then click **Del Preset**.

Note Some protocols do not support the **Del Preset** function.

Configuring PTZ Tours

You can set up the PTZ camera to go from preset to preset in a specific order.

To program a tour

1. On the expanded PTZ control panel, click the **Tour** button.



2. In the Preset box, enter the number of the first preset that you want to add to the tour.

Figure 3-14



- 3. In the Patrol No. box, enter a number for the tour.
- 4. Click Add Preset to add the preset to the tour.
- 5. Repeat steps 1 through 5 to add additional presets to the tour.
- 6. To delete a preset, enter the number of the preset that you want to delete in the Preset box, and then click **Del Preset**.

To delete a tour, enter the number of the tour that you want to delete in the Patrol No. box, and then click **Del Tour**.

Note Some protocols do not support the **Del Preset** function.

Configuring PTZ Patterns

You can record a series of PTZ movements as a pattern. When you call the pattern in live view mode, the PTZ camera automatically moves along the path you have defined.

To program a pattern

1. On the expanded PTZ control panel, click the Pattern button.

Figure 3-15

Speed 5	No.	0	0	0	
 Joom ⊕ Focus ⊕ Iris ⊕ 	•				∢

2. In the Pattern field, enter a number for the pattern.

PAN/TILT/Z	OOM	Honeywel				
Preset	Tour	Pattern	Border			
		Pattern				
			ıgin nd			

- 3. Click **Begin**, and then use the direction arrows to direct the camera.
- 4. When you have finished directing the camera, click **End**.

Configuring PTZ Borders

You can define the left and right borders of the PTZ camera's pan movement.

To program a scan

1. On the expanded PTZ control panel, click the **AutoScan** button.

Figure 3-17



2. Use the direction arrows to set the camera's leftmost limit, then click Left.

Figure 3-18



3. Use the direction arrows to set the camera rightmost limit, then click **Right**.

Calling Presets, Tours, and Patterns

To call a preset

1. On the expanded PTZ control panel, in the No. box, enter the number of the preset that you want to call, and then click the **Preset** button.



2. Click the **Preset** button again to stop calling the preset.

To call a tour

1. On the expanded PTZ control panel, in the No. box, enter the number of the tour that you want to call, and then click the **Tour** button.

Figure 3-20

Speed <mark>5</mark>	No.	0	0	0
😑 Zoom 🕀 _ 😑 Focus 🕀	•		~	
🕑 🤤 Iris 🕂	P	e	9	

2. Click the **Tour** button again to stop calling the tour.

To call a pattern

1. On the expanded PTZ control panel, in the No. box, enter the number of the pattern that you want to call, and then click the **Pattern** button.

Figure 3-21

Speed 5	No.	0	0	0	
😑 Zoom 🕀 E Focus 🕀			\bigcirc		∢
🔵 Iris 🕀	P	e	9	۲	

2. Click the **Pattern** button again to stop calling the pattern.

Configuring Auxiliary Settings

Refer to the user guide of your PTZ camera for details on configuring auxiliary settings.

4. Recording Video

This chapter contains the following sections:

- Manual Record Settings, page 38
- Automatic Record Settings, page 38

Manual Record Settings

In live view mode, you can manually record a clip directly to a connected USB storage device.

To record a video clip in live view mode

- 1. Connect a USB storage device (such as a USB flash drive) to one of the USB ports on the DVR.
- 2. The Find USB device dialog box opens automatically. Right-click to close the window.
- 3. In live view mode, move the mouse pointer to the top of the channel window to display the camera toolbar (see *Camera Toolbar* on page 26).
- 4. On the camera toolbar, click the **Realtime Backup** button with the start recording. The button changes to green while the DVR is recording.
- 5. Click the Realtime Backup button again to stop recording.

The video clip is saved automatically to the connected USB storage device. The file name uses the following format: [*DVR name*]_[*channel*]_[*video stream*]_[*recording start time*]_[*recording end time*]).dav.

Automatic Record Settings

The DVR supports independent real-time recording of each channel, even while searching and playing recorded video.

To set up automatic recording, you have to do the following:

- 1. Select the recording type. (See Configuring General Record Settings on page 39.)
- 2. Configure the recording schedule. (See *Configuring the Video Recording Schedule* on page 39.)
- 3. Configure the snapshot recording schedule. (See *Configuring the Snapshot Recording Schedule* on page 41.)
- 4. Configure the snapshot recording settings. (See *To configure snapshot recording settings* on page *41*.)

Configuring General Record Settings

To configure general record settings

1. Go to Main Menu \rightarrow Setting \rightarrow Storage \rightarrow Record.

Figure 4-1							
SETTING							Honeywell
ந CAMERA	TWORK		EVENT	- <mark>I</mark> st	TORAGE	SYSTEM	
BASIC	Main Stream	All	1234			2 13 14 15 16	
SCHEDULE	Auto	0	$\bullet \bullet \bullet \bullet$		••••	••••	
HDD MANAGE	Manual	0	0000	000	00000	0000	
FTP	Stop	0	0000	000	00000	0000	
RECORD	Sub Stream						
HDD DETECT	Auto	0	0000	000	00000	0000	
	Manual	0	0000	000	00000	0000	
	Stop	0					
	Snapshot						
	Enable	0	0000	000	00000	0000	
	Disable	0					
					Save	Cancel	Apply

- 2. On the **Record** page, select the record types (Auto, Manual, Stop) that you want to enable on each channel for both the main stream and sub stream.
- 3. Under **Snapshot**, enable snapshot recording on the desired channels.
- 4. Click **Apply**, and then click **OK**.

Configuring the Video Recording Schedule

To configure the video recording schedule

1. Go to Main Menu → Setting → Storage → Schedule → Record.

SETTING				Honeywell
		To EVENT	STORAGE	SYSTEM
SCHEDULE HDD MANAGE RECORD		Snapshot Pre-record 4	sec. 🗋 Redundancy	
HDD DETECT	□ All 0 □ Sunday 0 □ Monday 0 □ Tuesday 0 □ Tuesday 0 □ Thursday 0 □ Friday 0 □ Friday 0 □ Saturday 0	Regular 4 6 8 1		D&Alarm Intel 18 20 22 24

Figure 4-2

- 2. On the Record tab, in the Channel box, select the channel (camera) that you want to configure a recording schedule for.
- 3. In the PreRecord box, enter a time between 0 and 30 seconds. The default setting is 4 seconds. The pre-record time sets how long the DVR records before the scheduled recording start time.
- 4. If the DVR has two HDDs, select the Redundancy check box to enable redundant recording on the second HDD. This HDD must first be configured on the HDD Manage page (see *Configuring HDD Settings* on page *110*).
- 5. At the top of the scheduling table, select the check box(es) of the recording type(s) that you want to schedule:
 - **Regular** The regular recording schedule is indicated by a green bar.
 - MD The motion detection recording schedule is indicated by a yellow bar.
 - Alarm The alarm recording schedule is indicated by a red bar.
 - **MD&Alarm** The motion detection and alarm schedule is indicated by a blue bar.
 - Intel Intelligent identification recording, or Face Detection recording, is indicated by an orange bar.
- 6. At the left of the scheduling table, select the day(s) of the week that you want to configure a recording schedule for. To configure the same recording schedule for all of the days at the same time, select **All**.
- 7. Click or drag the mouse in the scheduling table to set the recording period. To erase a recording period, click the eraser icon at the right of the table. Alternatively, for the day of the week that you want to configure, click the gear icon at the right of the table. In the Period window, set up to six recording periods. To copy the settings to additional days, select the appropriate check box (es) under Copy, and then click **Save**.
- 8. Click **Apply** to save your settings.

9. To copy the record schedule settings to additional channels, click **Copy**, select the channels that you want to copy the settings to, and then click **OK**.

Configuring the Snapshot Recording Schedule

Follow these steps to configure the snapshot recording function. When enabled, the DVR can take snapshots when a motion detection, video loss, video tampering, or alarm event occurs. See *Chapter 8, Configuring Event Settings* for detailed instructions.

To configure the snapshot recording schedule

1. Go to Main Menu \rightarrow Setting \rightarrow Storage \rightarrow Schedule \rightarrow Snapshot.

Figure 4-3

- 2. On the Snapshot tab, in the Channel box, select the channel (camera) that you want to configure a snapshot schedule for.
- 3. At the top of the scheduling table, select the check box(es) of the recording type(s) that you want to schedule:
 - **Regular** The regular recording schedule is indicated by a green bar.
 - MD The motion detection recording schedule is indicated by a yellow bar.
 - Alarm The alarm recording schedule is indicated by a red bar.
 - **MD&Alarm** The motion detection and alarm schedule is indicated by a blue bar.
 - Intel Intelligent identification recording, or Face Detection recording, is indicated by an orange bar.
- 4. At the left of the scheduling table, select the day(s) of the week that you want to configure a recording schedule for. To configure the same recording schedule for all of the days at the same time, select **All**.

- 5. Click or drag the mouse in the scheduling table to set the recording period. To erase a recording period, click the eraser icon at the right of the table. Alternatively, for the day of the week that you want to configure, click the gear icon at the right of the table. In the Period window, set up to six recording periods. To copy the settings to additional days, select the appropriate check box(es) under Copy, and then click **Save**.
- 6. Click **Apply** to save your settings.
- 7. To copy the record schedule settings to additional channels, click **Copy**, select the channels that you want to copy the settings to, and then click **OK**.

To configure snapshot recording settings

1. Go to Main Menu \rightarrow Setting \rightarrow Camera \rightarrow Encode \rightarrow Snapshot.

0						
SETTING						
		EVENT		STORAGE	SYSTEM	
REGISTRATION IMAGE ENCODE CAM NAME CHANNEL TYPE UPGRADE	Encode Manual Snap Channel Mode Image Size Image Quality Interval	1 I* Timing I* 352*288(CIF) I*	Overlay /Time	Save	Cancel	Арріу

Figure 4-4

- 2. On the Snapshot tab, configure the following settings:
 - Manual Snap Select the number of snapshots to take at a time.
 - **Channel** Select the channel that you want to configure the settings for.
 - Mode Select Timing to take snapshots according to a schedule. Select Trigger to take snapshots when a motion detection, video loss, video tampering, or alarm event occurs.
 - Image Size Select a file size (D1, HD1, 2CIF, CIF).
 - Image Quality Select a value between 1 and 6, with 6 being the highest quality.
 - Interval Select a value between 1 SPL (second per picture) and 7 SPL or click Customized to enter your own setting.
- 3. Click **Apply** to save your settings.
- 4. To copy the settings to additional channels, click **Copy**, select the channels that you want to copy the settings to, and then click **OK**.

Note The DVR assigns event-activated snapshots a higher priority than scheduleactivated snapshots. If you have enabled both of these types of snapshots, then the system activates an activation snapshot when an alarm occurs. If there is no alarm, then the DVR takes snapshots according to the schedule setup.

5. Playing Back Video

This chapter includes the following sections:

- Playing Back Video, page 44
- Playing Back Snapshots, page 50
- Backing Up Video and Snapshots, page 50

Playing Back Video

Searching For and Playing Back Video

To search for and play back recorded video by date

Go to Main Menu → Operation → Search. The playback interface opens.
 Figure 5-1



- 2. On the right panel of the playback interface, in the calendar area, click the date(s) that you want to search. Dates with recorded video are solid orange.
- 3. Below the calendar, select the screen layout that you want to use, and then select the channel(s) that you want to search.
- 4. At the bottom of the screen, select the recording type(s) that you want to search (General, Alarm, Motion) or select All Record to search all recording types.
- 5. Click the **File List** button to display the list of search results.





- 6. From the list of search results, double-click the recorded video file that you want to play back. The video begins playing in the playback window.
- 7. Use the playback controls at the bottom of the screen to control playback. Playback modes include slow play, fast play, reverse play, and frame-by-frame playback.
- 8. To jump forward or backward in the video, click the time bar at the desired time. To zoom in or out on the time bar, click one of the options in the lower right corner of the screen: 24 h, 12 h, 1 h, or 30 min.

Smart Search

To quickly locate activity using Smart Search

1. During video playback, click the Smart Search button. A grid is superimposed over the playback window.

Figure 5-3



2. Drag the mouse over the area that you want to search for activity.



Figure 5-4

3. Click the **Smart Search** button again. Playback jumps to all the parts of the video where there is activity in that area.

Figure 5-5



4. To exit Smart Search, click the **Smart Search** button again. The message "Are you sure to exit smart search now?" appears. Click **OK**.

Marking and Playing Back Video

When you are viewing recorded video, you can mark the recording where something important happens. You can then easily find this important moment by searching for the time or key words.

Marking Video

1. Click the **Mark** button while in playback2 mode. The Add Mark window appears.

Figure 5-6

Add Mark Mark Time Name	2017-01-05 23	Honeywel		24 25 26 2 31	0 21
वि लि बि डि	*)+=%% *)) • _ (1 23 4664 789 08		
6 7 8 9 1		4 15 16 1		21 22	23 24 23 24

2. Enter a Name, then click **OK**.

Note: Marked video playback must be done in 1-window mode.

Playing Back Marked Video

- 1. Click the **Mark File List** button while in Playback mode. The Mark File list appears.
- 2. Double-click a marked file to begin playback.

Note If the marked file you want to play is missing, the DVR begins playback from the first file in the list.

Playing Back Before Marked Time

In the **Play back time before the mark** field in the **Playback** interface, you set the DVR to play N seconds of recorded video before the marked time.

The DVR can only play N seconds of recorded video before the marked time if
 there is N seconds of recorded video before the mark. If there isn't, it will play as much pre-mark video as there is.

Managing Marked Video

Click the Mark File List button in the Search interface. The Marks Manager interface appears.

Figure 5-7

Marks Ma Channel Start Time End Time	9			Honeywell
2 1 2	CH 4 4	Mark Time 2017-01-05 18:44:51 2017-01-05 19:23:53	Name ii ***	
Delete				Cancel

In this interface, you can view all the mark information for the currently selected channel.

Note After opening the **Marks Manager** interface, the DVR pauses current playback. The DVR continues playback after you exit the **Marks Manager** interface.

Modifying Marked Video

Note The only thing you can change about marked video is the name.

- 1. Double-click a marked time in the Marks Manager window. A dialog box appears.
- 2. Change the name of the marked time.
- 3. Click **OK**.

Deleting Marked Video

- 1. Click to select a marked time in the Marks Manager window.
- 2. Click Delete.

Splice Playback

Use **Splice Playback** to play several sections of the same file at the same time.

Note	Splice Playback is for the single-window playback mode only.
Note	The DVR system supports 1/4/8/16-split mode. However, slight differences might occur.

To simultaneously view multiple sections of a file

1. Click to enable Splice Playback in the Search window.





2. Select the Channel, Date, and the playback window layout (the split mode). The Splice Playback time bar uses a triangle to mark each section of the file.



0	0:05	0:10	0:15	0:20	0:25	0:30	0:35	0:40
						A		

- 3. Play back the recorded file.
 - Click **Playback** to play from the beginning of the current day, by default.
 - Click on the **Time Bar**to play a specific time.

• Click 📕 to select a file.

The minimum period for each section is 5 minutes. If a recording is less than 20 minutes, select 4-split mode (or more) and the system automatically adjusts to that each section is 5 minutes. In this situation, some channels might not display any video.

Playing Back Snapshots

Note

To search for and play back snapshot images by date

- 1. Go to Main Menu > Operate > Search. The playback interface opens.
- 2. On the right panel, below the search type box at the top of the panel, select **PIC**.
- 3. In the Interval box, enter the playback interval in seconds. Enter a time between 1 and 60 seconds. The default setting is 1 second.
- 4. In the calendar area, click the date(s) that you want to search. Dates with saved snapshots are solid orange.
- 5. Below the calendar, select the screen layout that you want to use, and then select the channel(s) that you want to search.
- 6. Click the File List button to display the list of search results.
- 7. In the list of search results, double-click the snapshot file that you want to play back. The snapshot appears in the playback window.
- 8. Playback cycles through all of the snapshot files in the file list at the interval you specified in the Interval box. To pause playback, click the Pause button in the control panel below the playback window. To go to the next snapshot, click the Next Frame button. To go to the previous snapshot, click the Prev Frame button.

Note The green time bar in the snapshot playback interface only shows approximately when snapshots were taken. Click **File List** to do an accurate search.

Backing Up Video and Snapshots

To back up from inside the playback interface

1. Insert a USB storage device (such as a USB flash drive) into one of the USB ports on the DVR.

Search for the recorded video or snapshot file(s) that you want to back up (see *Playing Back Video* on page 44 and *Playing Back Snapshots* on page 50).

- 2. Click the **File List** button to display the list of search results.
- 3. In the list of search results, select the check box (es) of the file(s) that you want to back up.





Alternatively, during video playback, in the video clip time field, enter the desired start time and end time, and then click the **Backup** button.

Figure 5-11



- 4. The Backup window opens, displaying the selected video file/clip.
- 5. In the Backup window, click **Backup**.



0			
0	Name(Type)	Free Space/Total Space	Device Status
1 1	 ✓ CH Type Start Time ✓ 1 R 14-12-22 15:0 	End Time Siz	ze(KB) 1589
pace Re	equired / Space Remaining:	1.55 MB/0.00 KB B	ackup
F		1 ✓ 1 R 14-12-22 15:0	1 ✓ 1 Ř 14-12-22 15:00:00 14-12-22 15:05:00

The **Browse** window of the USB storage device opens.

Figure 5-13

Browse				Honeywell
Device Name sdc1(US Total Space 14.43 G	B DISK) I▼ Refresh B Free Spac			
Address /				
Name urDrive Trashes unInstaller.exe urDrive.exe		Size 4.0 KB 352.8 KB 1.85 MB	File 🗙	
			Start	Back

6. Click **Start** to back up the file(s). If the backup is successful, the message "Backup finished" appears.

To back up from outside of the playback interface

1. Insert a USB storage device (such as a USB flash drive) into one of the USB ports on the DVR. The Find USB device dialog box opens.

Figure 5-14



2. In the Find USB device dialog box, click **File Backup**.

Figure 5-15

BACKUP										Honey	we
Device Nar	me sdb1(USB DIS	SK) I 🗸							Browse	
0.00 KB(Sp	ace Need	led)	6.98	GB/7.21 C	GB(Free	/Total)					
Туре	All	1-)								
Start Time					Rec	ord CH	1	I.			
End Time	2014	- 11- 1	14 10: 5	1: 50	File	Format	DAV	I.	Ad	d Remove	D
0 C	hannel	Туре	Start Tir	ne		End Tin	ne	Size(K	B)		
											i
										Backup	

- 3. In the Backup window, configure the following settings:
 - **Type** Select the file type that you want to search for.

Note: To search for snapshots, select **PIC**, as **All** means all video files (excluding snapshots).

- **Start Time** Enter the start time of the search.
- End Time Enter the end time of the search.
- Record CH
 Select a specific channel to search or select All to search all channels.
- **File Format** Select **DAV** or **ASF** as the video file format.
- 4. Click **Add** to display the search results in the file list.

NoteIf there are too many files in the selected time, only the first 1024 files in the
search period will be displayed. Refine the Start Time and End Time to find the
desired files for backup.

- 5. Select the check box (es) of the file(s) that you want to back up, and then click **Backup**. The **Browse** window of the USB storage device opens.
- 6. Click **OK** to back up the file(s).

6. Configuring Face Search

To configure the Face search:

Go to Main Menu → Operate → Face Search.

Figure 6-1



Та	ble	6-1
ıч	DIC	U T

Number	Name	Function			
		Displays human face detection file list. The latest file is at the top.			
1	Display pane	Click Export , you can export the selected file to the USB device. There are two types: image/record.			
		Image: Export the recognized human face image.			
		Record : Export the record file before and after 10 seconds when the DVR recognizes the human face.			
2	Playback pane	Play the searched record file or image. Double click to playback in full screen.			
3	Search pane	Set date, start time and end time, click Search button, you can view the corresponding file list.			

7. Configuring Backup Settings

To configure Backup settings

 Go to Main Menu → Operate → Backup. You can view backup device name and its total space and free space. The device includes CD-RW, DVD burner, USB device, flash disk, eSATA backup.



BACKUP				Honeywell
	sdb1(USB DISK) bace Needed)	GB(Free/Total)		Browse
Туре Стан Т ^а ла а	All			
	 2018 - 03 - 26 2018 - 03 - 26 	Record CH 1 File Format DAV	I▼ I▼ Se	arch Clear
0	Channel Type	End Time	Size(KB)	
				Backup

- 2. Select backup device and then set channel, file format, file start time and end time.
- 3. Click **Search**, the system begins to search. All matched files will be listed as below. The system automatically calculates the capacity needed and remained.



Start Tim		2018 - 03 - 23	00 : 00 : 00	Record CH			~
	e 🕔	2018 - 03 - 23	23 : 59 : 59	File Format DAV	<u> </u>	Search	[Clear
13		hannel Type	Start Time	End Time	Size(Kl	3)	
1	√1	R	18-03-23 09:17:13	18-03-23 10:00			
2	√1	R	18-03-23 10:00:00	18-03-23 11:00			
3	√1	R	18-03-23 11:00:00	18-03-23 12:00			
4	√1	R	18-03-23 12:00:00	18-03-23 13:00			
5	√1	R	18-03-23 13:00:00	18-03-23 14:00			
6	√1	R	18-03-23 14:00:00	18-03-23 15:00			
7	√1	R	18-03-23 15:00:00	18-03-23 16:00			
8	√1	R	18-03-23 16:00:00	18-03-23 17:00			
9	√1	R	18-03-23 17:00:00	18-03-23 17:32			
10	√1	R	18-03-23 17:35:47	18-03-23 19:00			
11	√1	R	18-03-23 19:00:00	18-03-23 19:12			
12	√1	R	18-03-23 19:12:28	18-03-23 19:12			
13	√1	R	18-03-23 19:12:39	18-03-23 20:1	5:36 40960		

Note: System only backup files with a $\sqrt{}$ before channel name. You can use Fn or cancel button to delete $\sqrt{}$ after file serial number.

4. Click **Backup**, system begins to copy the information. At the same time, the backup button becomes **Stop** button. You can view the remaining time and process bar at the left bottom.

Туре	AI		I.					
Start Time	۲	2018 - 03 - 26	00 : 00 : 00	Record CH	1	I.		
End Time	۲	2018 - 03 - 26	17 :32 :59	File Format	DAV	IT	Search	Clear
8	Cł	nannel Type	Start Time	End Tin	ne	Size(K	B)	
1	√1	R	18-03-26 09:50:42	18-03-26	6 09:58:45	7168		
2	1	R	18-03-26 11:00:07		6 13:07:37	81712		
3	1	R	18-03-26 13:07:37		6 13:23:13	11792		
4	1	R	18-03-26 13:28:33		6 15:36:03	81472		
5	1	R	18-03-26 15:36:03		6 16:49:07	48016		
6	1	R	18-03-26 16:50:56		5 17:04:07	10176		
7	1	R	18-03-26 17:09:30		5 17:14:20	5056		
8	1	R	18-03-26 17:19:51	18-03-26	5 17:27:47	4954		
								Stop

Figure 7-3

Note:

- The file name format usually is: Channel number+Record type+Time. In the file name, the YDM format is Y+M+D+H+M+S. File extension name is .dav.
- During backup process, you can click **ESC** to exit current interface for other operation. The system will not terminate backup process.
- When you click stop button during the burning process, the stop function becomes activated immediately. For example, if there are ten files, when you click stop system just backup five files, system only save the previous 5 files in the device (But you can view ten file names).

8. Configuring Camera Settings

This chapter contains the following sections:

- Registering/Finding an IP Camera, page 59
- Configuring Image Settings, page 61
- Configuring Encoding Settings, page 62
- Configuring Snapshot Settings, page 63
- Configuring Privacy Mask Settings, page 64
- Configuring the Text Overlay, page 65
- Changing a Camera Name, page 66
- Changing a Channel Type, page 66
- Upgrading Device, page 70

Registering/Finding an IP Camera

You must first designate channels as IP (rather than BNC or UTP), apply that IPNotedesignation, and reboot the DVR before you can see the REGISTRATION tab.
See Adding IP Channels on page 67.

To register an IP camera

1. Go to Main Menu \rightarrow Setting \rightarrow Camera \rightarrow Registration.

SETTING				Honeywe
		EVENT	STORAGE	SYSTEM
REGISTRATION IMAGE ENCODE CAM NAME CHANNEL TYPE UPGRADE	Registration 0 Edit IP Search Added Device	Status Firr	mware Manufacturer Id Show	Type w Filter None I▼
		Edit Delete Stat	172.8.2.59 172.8.3.131	Port Device 37777 80 2D04A32P port Import

Figure 8-1

- 2. Either click **IP Search** to automatically find IP cameras.
 - a. Click to select a found IP camera.
 - *b*: Click **Add** to add the found IP camera to the Added Device list.

NoteIf the DVR fails to display the model name of a found IP camera, click IPNoteSearch to rediscover the online IP cameras. The model name should
appear in the Added Device list.

OR

Click Manual Add to manually add an IP camera.

A. Manually configure the following settings:

- Decode Buffer Select a decode buffer, from Default, Real Time, or Fluent.
- **Channel** Select from a drop-down menu of options.
- Manufacturer Select Private, Panasonic, Sony, Dynacolor, Samsung, AXIS, Arecont, ONVIF, PSIA, or General.
- **IP Address** Enter the IP address for the camera.
- **TCP Port** Enter the TCP port for the camera. (Optional)
- Username Enter a username.
- **Password** Enter a password.
- **Channel** Select from a drop-down menu of options.
- **Remote Channel** Select a video stream, or multiple video streams, from a device.
- *b*. Click **Save**. The newly added camera appears in the **Added Device** list.
- c. Click **Apply** to save your settings.
- d. If you want to save your settings and exit the **Settings** menu, click **OK**.

Configuring Image Settings

Figure 8-2

You can configure the image settings (saturation, brightness, contrast, sharpness) for each connected camera.

To configure a camera's image settings

1. Go to Main Menu \rightarrow Setting \rightarrow Camera \rightarrow Image.

J					
SETTING					
CAMERA		To EVENT	STORAGE	SYSTEM	
REGISTRATION IMAGE ENCODE CAM NAME CHANNEL TYPE UPGRADE	Channel Period Effective Time Saturation Brightness Contrast Hue Sharpness Image Enhance NR	Time Period 1	4 7 3 0		
	Default		Save	Cancel	Apply

- 2. In the Channel box, select the camera that you want to configure.
- 3. In the Period, box, select a time period for the image settings. These image settings will be used only during this period.
- 4. In the Effective Time box, click to enter the start and end times for the Period you selected.
- 5. Configure the image saturation, brightness, contrast, and sharpness by moving the slider to the desired value.
 - Saturation Select a value between **0** and **100**. The default setting is **50**.
 - Brightness Select a value between **0** and **100**. The default setting is **50**.
 - Contrast Select a value between 0 and 100. The default setting is 50.
 - Hue Select a value between **0** and **100**. The default setting is **50**.
 - Sharpness Select a value between **0** and **15**. The default setting is **1**.
 - Image Enhance Select a value between 0 and 100. The default setting is 30.

- NR Select a value between **0** and **100**. The default setting is **50**.
- 6. Click **Apply** to save your settings.

Configuring Encoding Settings

To configure a camera's video and audio encoding settings

1. Go to Main Menu \rightarrow Setting \rightarrow Camera \rightarrow Encode.

Figure 8-3

SETTING						Honeywell
		To EVENT	Зsт	ORAGE	SYSTEM	
REGISTRATION IMAGE ENCODE CAM NAME CHANNEL TYPE UPGRADE	Channel Type Compression Smart Codec Resolution Frame Rate(FPS) Bit Rate Type	Snapshot 1 Regular H.264H Stop 960°576(960H) 25 CBR 1 S 1024	Overlay iv iv iv iv iv iv iv iv	Sub Strea H.264H 352'288(C 15 CBR 1 S 320 (1		
	Reference Bit Rate Audio/Video Audio Format Default Co	256-3072КЬ/S G711а	I •	32-640Kb/S Audio Sou	S urce <u>LOCAL</u>	Apply

- 2. On the Encode tab, in the Channel box, select the camera that you want to configure.
- 3. Configure the following settings for the primary stream and secondary stream:
 - **Type** Set the primary stream type as Regular, MD (Motion Detection), or Alarm. The secondary stream type is not configurable.
 - **Compression** This setting is not configurable.
 - Smart Codec Select Start from the drop-down menu to enable the Smart Codec function, which reduces the video bit stream for non-important recorded video to maximize storage space.
 - **Resolution** Set the primary stream to one of the following resolutions: 2560 x 1440, 1080P, 720P, 960H, D1, HD1, 2CIF, or CIF. Set the secondary stream to one of the following resolutions: D1, CIF, or QCIF.
 - Frame Rate Select a value between 1 and 30 (NTSC) or 1 and 25 (PAL) for the Main Stream. Select a value between 1 and 15 (NTSC) or 1 and ? (PAL) for the Main Stream.
 - **Bit Rate Type** Set to CBR (constant bit rate) or VBR (variable bit rate).

- Quality If the bit rate type is set to VBR, select a value between 1 and 6.
- I Frame Interval Set to 1 S or 2 S.
- Bit Rate Set to a value within the Reference Bit Rate range (640-6144). To enter a bit rate that does not appear on the list, click Customized.
- Audio/Video Select or clear the check boxes to enable or disable audio and/or video.
- Audio Format Set to G711a, PCM, or G711u (=G711µ)
- Audio Source Set to Local.
- 4. Click Apply.
- 5. To copy the settings to one or more additional cameras, follow these steps:
 - a. Click Copy.
 - *b*: Click the specific camera(s) that you want to copy the settings to, or click **All** to select all the cameras, and then click **OK**.
- 6. Click **Save** to save your settings.

Note: After you added IP camera to the DVR, click **Refresh** after configuring Encode settings to ensure the Encode configuration is applied. Do not input parameters that is beyond the maximum performance of your IP camera.

Configuring Snapshot Settings

To configure a camera's snapshot settings

1. Go to Main Menu \rightarrow Setting \rightarrow Camera \rightarrow Encode \rightarrow Snapshot.

SETTING						Honeywell
CAMERA		THE EVENT	ST	ORAGE	SYSTEM	
REGISTRATION IMAGE ENCODE CAM NAME CHANNEL TYPE UPGRADE	Encode Manual Snap Channel Mode Image Size Image Quality Interval	1 IV Timing IV 352*288(CIF) IV	Overlay Time	•		
	Default	Сору	ĺ	Save	Cancel	Apply

Figure 8-4

2. In the Channel box, select the camera that you want to configure.

Configuring Privacy Mask Settings

To configure a privacy mask

1. Go to Main Menu \rightarrow Setting \rightarrow Camera \rightarrow Encode \rightarrow Overlay.



Figure 8-5

- 2. In the **Channel** box, select the camera that you want to configure.
- 3. Next to **Cover-Area**, select one of the following options:
 - **Preview** Blocks an area when the DVR is in live view mode.
 - **Record** Blocks an area when the DVR is in record mode.
- 4. Click Set.

Configuring the Text Overlay

Figure 8-6

To configure a camera's text overlay settings

1. Go to Main Menu \rightarrow Setting \rightarrow Camera \rightarrow Encode \rightarrow Overlay.

SETTING					Honeywell
CAMERA		To EVENT	STORAGE	SYSTEM	
REGISTRATION IMAGE ENCODE CAM NAME CHANNEL TYPE UPGRADE	Encode Channel Cover-Area Time Display Channel Display	1 I♥ ♥ Preview ♥ Rea ♥ Rea	ord Set	380	
	Default	Сору	Save	Cancel	Apply

- 2. In the **Channel** box, select the camera that you want to configure.
- 3. To set the time display, next to **Time Display**, select the **Record** check box, and then click **Set**. Drag the time display to the desired position on the screen.
- 4. To set the channel display, next to **Channel Display**, select the **Record** check box, and then click **Set**. Drag the channel display to the desired position on the screen.
- 5. To copy the settings to one or more additional cameras, follow these steps:
 - a. Click Copy.
 - Click the specific camera(s) that you want to copy the settings to, or click All to select all the cameras, and then click OK.

Changing a Camera Name

By default, the cameras are named "CAM 1", "CAM 2," "CAM 3," and so on. You can assign each camera a descriptive name specific to your application (for example, "Front Entrance").

To rename a camera

1. Go to Main Menu \rightarrow Setting \rightarrow Camera \rightarrow CAM Name.

Figure 8-7				
SETTING				Honeywell
CAMERA		To EVENT		SYSTEM
REGISTRATION IMAGE ENCODE CAM NAME CHANNEL TYPE UPGRADE	CAM 1 CAM 3	CAM 1	CAM 2 CAM 4	CAM 2 CAM 4
	Default	Refresh	Save	Cancel Apply

- 2. Click the text box of the camera that you want to rename and enter the new camera name.
- 3. Click Apply to save your settings.

Changing a Channel Type

By default, the analog channel type is set to **Coax**. You can change the channel type to **UTP** if unshielded twisted pair (UTP) cabling is used.

To change an analog channel to UTP

1. Go to Main Menu \rightarrow Setting \rightarrow Camera \rightarrow Channel Type.

SETTING					Honeywell
		EVENT	STORAGE	SYSTEM	
REGISTRATION IMAGE ENCODE CAM NAME CHANNEL TYPE UPGRADE		COAXIAL	UTP	IP -	
	Default	Add IP CAM	Save	Cancel	Apply

Figure 8-8

- 2. Select the UTP check box of the channel(s) that you want to change to UTP.
- 3. Click **Apply**, and then click **Save** to save your settings.

Adding IP Channels

To add IP channels automatically

- 1. Go to Main Menu \rightarrow Setting \rightarrow Camera \rightarrow Channel Type.
- 2. Click Add IP CAM. A message appears asking you to reboot the DVR.
- 3. Reboot the DVR.

When the DVR reboots, new IP channels are added to the list of channels. On a 4-channel DVR, channels 5 and 6 are the default IP channels. On an 8-channel DVR, channels 9–12 are the default IP channels. On a 16-channel DVR, channels 17–24 are the default IP channels. See *Registering/Finding an IP Camera* on page 59 for instructions on assigning IP cameras to IP channels.

If you want to add more IP channels than the default amount (2, 4, or 8, depending on your DVR model), you can manually designate analog channels as IP channels.

To add IP channels manually

- 1. Go to Main Menu \rightarrow Setting \rightarrow Camera \rightarrow Channel Type.
- 2. On the channel that you want to configure, clear the check box in the analog column (**Coaxial** or **UTP**), and then select the corresponding check box in the **IP** column.



Figure 8-9

3. Click **Apply**, and then, at the prompt, reboot to DVR to apply the new settings.

The different possible HQA and IP camera combinations are listed in the table below.

	HQA Analog Camera			IP Camera
	Qty	Channel Number	Qty	Channel Number
4ch HQA DVR	4	1,2,3,4	2	6,5
	3	1.2.3	3	6,5,4
	2	1.2	4	6.5.4.3
	1	1	5	6,5,4,3,2
	0	_	6	6.5.4.3.2.1
8ch HQA DVR	8	1,2,3,4,5,6,7,8	4	12,11,10,9
	7	1.2.3.4.5.6.7	5	12.11.10.9.8
	6	1.2.3.4.5.6	6	12.11.10.9.8.7
	5	1,2,3,4,5	7	12,11,10,9,8,7,6
	4	1,2,3,4		12.11.10.9.8.7.6.5
	3	1.2.3	9	12.11.10.9.8.7.6.5.4
	2	1.2	10	12.11.10.9.8.7.6.5.4.3
	1	1	11	12.11.10.9.8.7.6.5.4.3.2
	0	-	12	12,11,10,9,8,7,6,5,4,3,2,1
16ch HQA DVR	16	1,2,3,4,5,6,7,8,9,10,11,12,1 3 14	8	24,23,22,21,20,19,18,17
	15	1,2,3,4,5,6,7,8,9,10,11,12,1 3,14,	9	24,23,22,21,20,19,18,17,16
	14	1,2,3,4,5,6,7,8,9,10,11,12,1 3,14	10	24,23,22,21,20,19,18,17,16, 15

Table 8-1

13	1,2,3,4,5,6,7,8,9,10,11,12,1 3	11	24,23,22,21,20,19,18,17,16,1 5,14
12	1,2,3,4,5,6,7,8,9,10,11,12	12	24,23,22,21,20,19,18,17,16,1 5,14, 13
11	1,2,3,4,5,6,7,8,9,10,11	13	24,23,22,21,20,19,18,17,16,1 5,14, 13.12
10	1,2,3,4,5,6,7,8,9,10	14	24,23,22,21,20,19,18,17,16,1 5,14, 13,12,11
9	1,2,3,4,5,6,7,8,9	15	24,23,22,21,20,19,18,17,16,1 5,14, 13,12,11,10
8	1,2,3,4,5,6,7,8	16	24,23,22,21,20,19,18,17,16,1 5,14, 13,12,11,10,9
7	1,2,3,4,5,6,7	17	24,23,22,21,20,19,18,17,16,1 5,14, 13,12,11,10,9,8
6	1,2,3,4,5,6	18	24,23,22,21,20,19,18,17,16,1 5,14, 13,12,11,10,9,8,7
5	1,2,3,4,5	19	24,23,22,21,20,19,18,17,16,1 5,14, 13,12,11,10,9,8,7,6
4	1,2,3,4	20	24,23,22,21,20,19,18,17,16,1 5,14, 13,12,11,10,9,8,7,6,5
3	1,2,3	21	24,23,22,21,20,19,18,17,16,1 5,14, 13,12,11,10,9,8,7,6,5,4
2	1,2	22	24,23,22,21,20,19,18,17,16,1 5,14, 13,12,11,10,9,8,7,6,5,4,3
1	1	23	24,23,22,21,20,19,18,17,16,1 5,14, 13,12,11,10,9,8,7,6,5,4,3,2
0	_	24	24,23,22,21,20,19,18,17,16,1 5,14, 13,12,11,10,9,8,7,6,5,4,3,2,1

Upgrading Device

You can upgrade the camera firmware locally at the DVR.

Go to Main Menu \rightarrow SETTING \rightarrow Camera \rightarrow UPGRADE.

Figure 8-10

SETTING						Honeywell
CAMERA		TR EVEN	ит 🚺	STORAGE	🛃 SY	STEM
REGISTRATION IMAGE ENCODE	Upgrade Update File		_	_		Browse
CAM NAME	Device(0/0)				Туре	Nonet
CHANNEL TYPE	Channel	IP Address	Process	Status	Туре	System Ver
	•)		Slart Upgrade

Note: you can distinguish the devices by Type.

Supported Camera Models (Type: COAXIAL):

- HD30HD2
- HB74HD2
- HD274HD2
- HD231HD2
- HD31HD2
- HB276HD2
- HD74HD2
- HB76HD2
- HD274HD4
- HB276HD4
- HB74HD4
- HD72HD4
- HD30HD4

- HD30XD2
- HE30XD2
- HE30XD2G
- HB30XD2
- HD41XD2
- HB41XD2
- HE41XD2
- HC2HD2
- H4D42HD8
- HBD42HD8
- HFD40HD4
- HB30PHD2
- HB30THD2

9. Configuring Network Settings

This chapter contains the following sections:

- Configuring TCP/IP and Port Settings, page 71
- Configuring Wireless Connection Settings, page 73
- Configuring Advanced Network Settings, page 75
- Configuring PPPoE Settings, page 76
- Configuring DDNS Settings, page 76
- Configuring Sync Time, page 78
- Configuring Email Settings, page 78
- Configuring UPnP Settings, page 80
- Configuring SNMP Settings, page 81
- Configuring Multicast Settings, page 82
- Configuring P2P Settings, page 83
- Configuring Email Settings, page 78
- Configuring P2P Settings, page 83

Configuring TCP/IP and Port Settings

To configure TCP/IP settings

1. Go to Main Menu \rightarrow Setting \rightarrow Network \rightarrow TCP/IP.

SETTING				Honeywo
👼 CAMERA		📆 EVENT	STORAGE	SYSTEM
TCP/IP	IP Version	IPv4 I▼		
CONNECTION	MAC Address	00:1F:55:2F:BE:52		
WIFI	Mode	O STATIC • DHO	CP	
3G/4G	IP Address	10 . 18 . 123	. 126 Test	
PPPoE	Subnet Mask	255 . 255 . 255	. 0	
DDNS	Default Gateway	10 . 18 . 123	. 1	
SYNC TIME	Preferred DNS	8.8.8	. 8	
EMAIL	Alternate DNS	8.8.4	. 4	
UPnP				
SNMP	MTU	1500		
MULTICAST				
P2P				
	Default		(Save	Cancel Apply

- 2. On the **TCP/IP** page, in the **IP Version** box, select **IPv4** or **IPv6**, depending on the Internet protocol that you want to use.
- 3. Set the Mode to Static or DHCP. Click **Static** to assign the DVR a static IP address or click

DHCP to assign it a dynamic IP address.

- 4. If Mode is set to Static, manually enter the IP Address, Subnet Mask, and Gateway information. (The IP address, subnet mask, and gateway are not configurable when Mode is set to DHCP).
- 5. If Mode is set to Static and you have manually entered the IP Address, Subnet Mask, and Gateway, then click **Test** to test the connection.
- 6. If you want, enter Preferred DNS and Alternate DNS addresses.
- 7. Click **Apply** to save your settings.
- 8. If you want to exit the Setting menu, click **Save**.

To configure port settings

1. Go to Main Menu → Setting → Network → Connection.

SETTING					Honeywell
👼 CAMERA		To EVENT	STORAGE	SYSTEM	
TCP/IP CONNECTION WIFI 3G/4G PPPoE DDNS SYNC TIME EMAIL UPnP SNIMP MULTICAST P2P	Max Connection TCP Port UDP Port HTTP Port HTTPS Port RTSP Port		(0 -128) (1025 - 65535) (1025 - 65535) (1 - 65535) (1 - 65535) (1 - 65535)		
	Default		Save	Cancel	Apply

- 2. On the Connection page, you can configure the following settings:
 - Max Connection Select a value between 0 and 20. The default setting is 20.
 - **TCP Port** Select a value between 1025 and 65535. The default setting is 37777.
 - UDP Port Select a value between 1025 and 65535. The default setting is 37778.
 - HTTP Port Select a value between 0 and 65535. The default setting is 80.
 - HTTPS Port Select a value between 0 and 65535. The default setting is 443.
 - **RTSP Port** Select a value between 0 and 65535. The default setting is 554.
- 3. Click **Apply** to save your settings.
- 4. If you want to exit the Setting menu, click **Save**.

NoteYou must restart the DVR to apply any changes to the DVR's port settings.Ensure that the port settings do not conflict with each other.

Configuring Wireless Connection Settings

To manage Wi-Fi connections

1. Go to Main Menu → Setting → Network → WIFI Setting.

SETTING				Honeywell
N CAMERA		To EVENT	STORAGE	SYSTEM
TCP/IP	WIFI Auto Conr	nect 🤜		
CONNECTION	0	SSID Signal Ir	ntensity WIFI Wo	rking Info
WIFI			Current Hots	spot No Connection
3G/4G				
PPPoE			IP Address	
DDNS			Subnet Mas	k
SYNC TIME			Default Gate	wav
EMAIL			Bendan date	
UPnP				
SNMP				
MULTICAST				
P2P				
	Refresh	onnect Disconne	ct Save	Cancel Apply
			Save	Cancel Apply

- 2. On the WIFI Setting page, you can do one or more of the following:
 - To enable automatic connections to Wi-Fi hotspots, select the **Auto Connect WIFI** check box.
 - To disable automatic connections to Wi-Fi hotspots, clear the **Auto Connect WIFI** check box.
 - To search for Wi-Fi hotspots, click **Refresh**.
 - To manually connect to a Wi-Fi hotspot, click **Connection**.
 - To disconnect from a Wi-Fi hotspot, click **DisConnect**.

If a Wi-Fi connection is successfully established, the Wi-Fi hotspot name and connection details are displayed in the **WIFI Working Information** area.

- 3. Click **Apply** to save your settings.
- 4. If you want to exit the Setting menu, click **OK**.

Note The system does not support WPA and WPA 2 verification types.

To configure 3G/4G wireless connections

1. Go to Main Menu → Setting → Network → 3G/4G Setting.

SETTING				Honeywel
👼 CAMERA	NETWORK	To EVENT	STORAGE	SYSTEM
TCP/IP CONNECTION WIFI 3G/4G PPPoE DDNS SYNC TIME EMAIL UPnP SNMP	No signal Ethernet Card Network Type APN AUTH Dial No. User Name Password Wireless Netw		Enable	Dial
MULTICAST P2P	Module State : SIM State - PPP State -	IP Si	Address - ıbnet Mask - efault Gateway - Save	Cancel Apply

- 2. On the 3G/4G Setting page, you can configure the following settings:
 - Ethernet Card Select the wireless network adapter name.
 - Enable Select or clear the check box to enable or disable 3G/4G wireless connection using the selected wireless network adapter.
 - **Network Type** Select the network type that meets your requirements.
 - **APN** Select the wireless connection server that you want to use to access the wireless network.
 - **AUTH** Select the authentication mode that you want to use to access the wireless network: PAP or CHAP.
 - **Dial Number** Enter the 3G/4G network dial-up number that you received from your Internet service provider.
 - **User Name** Enter a user name for logging on to the 3G/4G network.
 - **Password** Enter a password for logging on to the 3G/4G network.
 - **Dial** Click **Dial** to manually enable or disable the 3G/4G network connection.
- 3. Click **Apply** to save your settings.
- 4. If you want to exit the Setting menu, click **OK**.

Configuring Advanced Network Settings

This section describes how to configure PPPoE, DDNS, SYNC TIME, EMAIL, UPnP, SNMP, MULTICAST and P2Psettings.

Configuring PPPoE Settings

To enable a Point-to-Point Protocol over Ethernet (PPPoE) network connection

1. Go to Main Menu \rightarrow Setting \rightarrow Network \rightarrow PPPOE.

Figure 9-5					
SETTING				Honey	well
ந CAMERA		Tag EVENT	STORAGE	SYSTEM	
TCP/IP CONNECTION WIFI 3G/4G PPPoE DDNS SYNC TIME EMAIL UPnP SNMP MULTICAST P2P	Enable User Name Password IP Address				
	Default		Save	Cancel Apply	

- 2. On the PPPOE page, select the **Enable** check box to enable a PPPoE network connection.
- 3. In the User Name and Password boxes, enter the user name and password provided by your Internet service provider for PPPoE access.
- 4. Click **Apply**, and then click **OK**.
- 5. Restart the DVR for the new network connection settings to take effect. The DVR's new IP address appears on the PPPOE page. Use this address when accessing the DVR remotely.

Configuring DDNS Settings

To enable a Dynamic DNS (DDNS) network connection

1. Go to Main Menu \rightarrow Setting \rightarrow Network \rightarrow DDNS.

SETTING				Нопеум
📆 CAMERA		EVENT	STORAGE	SYSTEM
TCP/IP CONNECTION WIFI 3G/4G PPPoE DDNS SYNC TIME EMAIL UPnP SNMP MULTICAST P2P			ain O Cu	t an email address. one year. You can
	Default T	est	OK	Cancel Apply

- 2. On the DDNS page, select the Enable check box to enable a DDNS network connection.
- 3. In the DDNS Type box, select the DDNS service that you want to use.
- 4. Depending on the DDNS Type you select, you may need to enter the following details:

•	Host	The address appears automatically unless DDNS Type is set to Private DDNS. In that case, enter the server IP address of your DDNS service provider.			
•	Domain Mode	If DDNS Type is set to Honeywell DDNS, click Default Domain to use the default domain name or click Custom Domain Name to create your own domain name.			
•	Domain Name	Enter a domain name (if you are not using a default domain name). You can obtain this from your DDNS service provider.			
•	User Name	If applicable, enter a user name to access your DDNS service.			
•	Password	If applicable, enter a password to access your DDNS service			
•	Email Address	Unused Honeywell DDNS domain names will expire after a year. Enter your email address if you want to receive a notification before an unused domain name is reclaimed.			
Cl	Click Apply , and then click OK .				

- 6. Restart the DVR for the new network connection settings to take effect.
- 7. To test the settings, on the DDNS page, click **Test**.

5.

Configuring Sync Time

This function allows specified IP host to change device time in case several hosts are syncing time with the device.

- 1. Go to Main menu->Setting->Network->Sync time.
- 2. Enter Sync time interface. See *Figure 9-7*.
- 3. Check the **Enable** box to enable Sync time function.

rigule 5-1						
SETTING					Hoi	neywell
CAMERA		Ta EVEN	T STORAGE	SI	/STEM	
TCP/IP CONNECTION WIFI	Enable	Trusted Sites I				-
3G/4G	Start Address			dd IP Addre	ss	
PPPoE	End Address		A	dd IP Segme	ent	_
DDNS	Start A	ddress	End Address	Edit	Delete	
SYNC TIME						
EMAIL UPnP						
SNMP						
MULTICAST						
P2P						
	Default		Save	Cance	el Appl	у

Figure 9-7

4. Click **Apply** or **Save** to complete setup.

NoteIf the DVR has enabled NTP service, the device will sync time with the NTP server
regularly. The sync or change time operation of the IP address in the whitelist will
be invalid, unless the NTP server and the IP address in the whitelist is the same.

Configuring Email Settings

To configure email notifications

1. Go to Main Menu → Setting → Network → Email.

SETTING					Honeywell
N CAMERA		🔂 EVENT	STORAGE	SYSTEM	
TCP/IP CONNECTION WIFI 3G/4G PPPoE DDNS SYNC TIME EMAIL UPnP SNMP MULTICAST P2P	Anonymous User Name Receiver Sender Subject Encrypt Type Interval Health Enable Interval	HQA ALERT NONE IT 120	Port 25 Password Attachment		
	Default	Test	Save	Cancel [Apply

- 2. On the Email page, select the Enable check box to enable email notifications for alarm events.
- 3. Configure the following settings:
 - **SMTP Server** Enter the SMTP server address of the sender's email account.
 - **Port** The default TCP/IP port used for SMTP is 25.
 - Anonymous Select check box to hide the sender's address in sent email.
 - User Name Enter the user name of the sender's email account.
 - **Password** Enter the password of the sender's email account.
 - **Receiver** Enter the email address where you want to send the notification. You can enter up to three email addresses.
 - Sender Enter the sender's email address.
 - **Subject** Enter the email subject.
 - Attachment Select check box to enable sending an attachment with the email.
 - **Encrypt Type** Select an encryption type: None, SSL, or TLS.
 - Interval This is the interval for sending emails. Enter a time between 0 and 3600 seconds. 0 means that there is no interval.
 - **Health Enable** Select check box to enable a health check. The system sends a test email to check the connection.
 - Interval This is the interval the DVR waits before sending out email notifications after an event is detected. Enter a time between 0 and 1440 minutes. 0 means that there is no interval.

Configuring UPnP Settings

The Universal Plug and Play (UPnP) protocol is used to map the relationship between the LAN and the WAN.

To configure UPnP settings

1. Go to Main Menu \rightarrow Setting \rightarrow Network \rightarrow UPNP.

Figure 9-9								
SETTING							Но	oneywe
CAMERA	TRANETWO	ORK	EVENT	[<mark>]</mark> s⊺	FORAGE	SYST	ГЕМ	
TCP/IP CONNECTION WIFI 3G/4G PPPoE DDNS	PAT UPNP V, Status LAN IP WAN IP PAT	AV Reporting	0.0		\equiv			
SYNC TIME EMAIL UPnP SNMP MULTICAST P2P	7 1 2 3 4 5 6 7	Service Nan HTTP TCP UDP RTSP RTSP SNMP HTTPS	T T U U T	rotocol CP CP IDP IDP CP IDP CP	Int Port 80 37777 37778 554 554 161 443	Ext.Port 80 37777 37778 554 554 161 443	Edit / / / / /	
	Default				Save	Cancel) (Apr	oly

- 2. On the UPNP page, configure the following settings:
 - PAT Click to Enable or Disable UPnP.
 - UPNP VAV Report Enable/disable UPnP to work with I View Now.
 - LAN IP Enter the DVR's IP address from the TCP/IP page.
 - WAN IP Enter the router IP address.
- 3. Click **Apply** to save your settings.

Editing a Mapping Relationship

If you want, you can edit a mapping relationship from the **PAT Table** list:

- 1. Click the mapping relationship that you want to edit.
- 2. Edit the Ext.Port details in the Port Info dialog box.
- 3. Click **OK**.

Configuring SNMP Settings

You can use Simple Network Management Protocol (SNMP) to receive information from the DVR remotely. You will need to install SNMP software on a PC to receive information from the DVR via SNMP.

To configure SNMP settings

1. Go to Main Menu \rightarrow Setting \rightarrow Network \rightarrow SNMP.

Figure 9-10

SETTING				Honeywell
N CAMERA		TR EVENT	STORAGE	SYSTEM
TCP/IP	Enable	∀		
CONNECTION		V1		
WIFI		V2		
3G/4G		∨3		
PPPoE	SNMP Port	161		
DDNS	Read-Community	public		
SYNC TIME	Write-Community	private		
EMAIL	Trap Address			
UPnP	Trap Port	162		
SNMP	ReadOnly User	public	Read/Write User (priva	ite
MULTICAST	Authorize Type	MD5 IT	Authorize Type MD5	
P2P	Password		Password	
	Encryption Type	CBC-DES IT	Encryption Type CBC	-DES IT
	Password		Password	
	Default		Save	Cancel Apply

- 2. On the SNMP page, select the Enable check box to enable SNMP.
- 3. Configure the following settings:
 - Version Select the check boxes of the SNMP version(s) that you are using.
 - SNMP Port The default setting is 161.
 - Read Community The default setting is public.
 - Write Community The default setting is private.
 - **Trap Address** Enter the IP address of the computer running SNMP software.
 - Trap Port The default setting is 162.
- 4. If SNMP Version **V3** is selected, the following settings are also configurable:

ReadOnly User: The default setting is public.

Read/Write User: The default setting is private.

Authorize Type: Select the authorization type, MD5 or SHA, for both the

ReadOnly and Read/Write users. The default setting is MD5.

Password: Enter the authorization passwords for both the ReadOnly and Read/Write users.

Encryption Type: Select the encryption type for both the ReadOnly and Read/Write users. The default setting is **CBC-DES** and is currently the only encryption option.

Password: Enter the encryption passwords for both the ReadOnly and Read/Write users.

- 5. Click **Apply** to save your settings.
- 6. If you want to exit the Setting menu, click **Save**.

Configuring Multicast Settings

Multicast allows for simultaneous real-time monitoring of live video from the DVR at multiple remote locations over the network.

To configure multicast settings

Go to Main Menu → Setting → Network → Multicast. 1.

SETTING					loneywel
N CAMERA		To EVENT	STORAGE	SYSTEM	
TCP/IP CONNECTION WIFI 3G/4G PPPoE DDNS SYNC TIME EMAIL UPnP SNMP MULTICAST P2P	Enable IP Address (23) Port (366)				_
	Default		Save	Cancel A	pply

Figure 9-11

- 2. On the Multicast page, select the Enable check box to enable multicast.
- In the IP Address box, enter a multicast IP address. The address must be valid for 3. multicasting and should be in the range 224.0.0.0 to 239.255.255.255 for IPv4 or have the prefix ff00::/8. An address in the range 239.252.0.0 to 239.255.255.255 is recommended.
- 4. In the Port box, enter a multicast port number or use the default setting (36666).
- 5. Click **Apply** to save your settings.
- 6. If you want to exit the Setting menu, click **OK**.

Configuring P2P Settings

You can use a QR code and the scan function in the Hon View Touch app on your SmartPhone to add your DVR to your Honeywell devices in Hon View Touch. You can then access your DVR through the WAN.

To add a DVR to the Hon View Touch app

1. Go to Main Menu \rightarrow Setting \rightarrow Network \rightarrow P2P.



2. Open the app in your smartphone.

Note You can find the app in both the iOS App store and the Android Google Play store.

- 3. Tap 🗹 to go to Live Preview.
- 4. Tap 📰 to open the Main Menu.
- 5. Tap the Device Manager button 💷 , then select P2P to add the device.
- 6. Tap Start Live Preview to view video from the connected device.

Register Mode:	P2P
lame:	
in:	M
Jsername:	admin
assword:	•••••
ive Preview:	Extra >
layback:	Extra >
<u>6</u> +	Check VTO

10. Configuring Event Settings

This chapter contains the following sections:

- Configuring Motion Detection Settings, page 85
- Configuring Video Loss Settings, page 89
- Configuring Tampering Settings, page 90
- Configuring Diagnosis Settings, page 91
- Configuring Face Detection Settings, page 93
- Configuring Alarms, page 95
- Configuring Abnormality Settings, page 97
- Configuring Temperature and Humidity Camera (IOT), page 101

Configuring Motion Detection Settings

To set up motion detection regions

Go to Main Menu → Setting → Event → Video Detect → Motion Detect.
 Figure 10-1

SETTING					
CAMERA		📷 EVENT	STORAGE	SYSTEM	
VIDEO DETECT	Motion Detect	Video Loss Ta	mpering Dia	agnosis	
FACE DETECT ALARM ABNORMALITY	Channel Enable MD	(1)•	Region Enable PIR 🔲	Set	
ЮТ	Period	Set	Anti-dither	5 sec.	
	■ Show Message ▼Record Channe	Alarm Upload			
	PTZ Activation Tour	Set		10 sec.	
	Snapshot	v28456			
	■Video Matrix ■Voice Prompts	─ Buzzer File Name <mark>None</mark>	✓ Log		
	Default Co	py Test	Save	Cancel	Apply

- 2. On the Motion Detect tab, in the Channel box, select the channel (camera) that you want to configure motion detection settings for.
- 3. Select the Enable check box to enable motion detection for the selected channel.

4. Enable PIR.

PIR function help enhance the motion detect accuracy and validity. It is to filter the false alarm triggered by leaves, small fly and insects. The PIR detection zone is smaller than the camera angle of view. The PIR function is enabled by default if the connected remote device supports the PIR function. When the PIR function is on, motion detection function is on by default. The motion detect event occurs when these two function are enabled at the same time. If the PIR function is disabled, check the enable box to enable the general motion detect function.

• The channel type shall be HQA if you want to enable PIR function.

Note

- If the remote device does not support PIR function, the PIR item on the interface is grey or is hiding. That is to say, the PIR function is null.
- The interface does not display PIR enable state if current DVR does not support PIR function.
- 5. Next to Region, click **Set** to define the motion detection region. A grid appears over the live view screen and the following dialog box appears:



6. Set the Sensitivity level (0-100) and Threshold level (0-100) for Region 1.

Sensitivity refers to the amount of change (as a percentage) in the image pixels between frames. Moving the **Sensitivity** slider to the left decreases the sensitivity of the motion detection and therefore more movement is required to trigger an event notification.

Threshold is the amount of motion required to trigger an event notification.

Note	The best way to configure motion detection is to experiment with the sensitivity
Note	and threshold settings while someone is walking in front of the camera.

- 7. By default, motion detection Region1 covers the whole screen.
 - To disable motion detection in part of the image, drag the mouse over the area of the image that you want to exclude. The areas *not* covered by red boxes are *not* sensitive to motion.
 - To change the threshold level in part of the image, select a different motion detection region (**Region2**, **Region3**, or **Region4**), set the **Threshold** level for that region, and then drag the mouse to define the region.
- 8. Right-click to return to the Setting menu.
- 9. Click **Apply** to save your settings.

To set up motion detection periods

1. On the Motion Detect tab, next to Period, click **Set**. The Set window opens.



- 2. By default, when motion detection is enabled, it is active all the time. To modify the periods when motion detection for the selected channel is active, on each day's timeline, click the half-hour blocks when you want motion detection to be disabled.
- 3. Alternatively, for the day of the week that you want to configure, click **Set**. The Period window opens.

Figure 10-4

Period	eywell
Current Date: Monday	
Period 1 00:00 - 24:00	
Period 2 00:00 - 24:00	
Period 3 00:00 - 24:00	
Period 4 00:00 - 24:00	
Period 5 00:00 - 24:00	
Period 6 00:00 - 24:00	
Сору	
🖉 🔲 All 🛢 Sunday 🗹 Monday 🛢 Tuesday 🛢 Wednesday 🛢 Thursday 🛢 Friday 🛢 Saturday	
ОК	

- a. Set up to six periods in the day when you want the motion detection settings for the selected channel to be active.
- b. Select the check box next to each configured period to enable it.
- c. To copy the settings to additional days, select the appropriate check box(es) under **Copy**.
- d. Click **Save**to return to the previous window.
- 4. After you have finished setting up the motion detection periods, click **OK**.

To set up motion detection event actions

1. Go to Main Menu → Setting → Event → Video Detect → Motion Detect.

•						
SETTING					Ho	neywell
CAMERA		EVENT	STOR	AGE 🛃	SYSTEM	
VIDEO DETECT FACE DETECT ALARM ABNORMALITY IOT	Period Show Messag Record Chanr PTZ Activation Tour Snapshot Video Matrix Voice Prompts	 Set Set Alarm Upload Set Set Set Set Set Set Set Set Set Buzzer 	72 (3) Delay 72 (3) 72 (3) 72 (3) 73 (3) 73 (3) 74 (1) 74 (1) 75 (1) 76 (1) 76 (1) 77	Diagnosis Set 5 ail 10 Save Can	sec.	

2. On the Motion Detect tab, select the actions that you want the system to initiate when a motion detection event occurs:

•	Anti Dither	Configure the event detection lasting time (anti dither). During this time, if another event is detected, the DVR resets the recording time, but does not reactivate the buzzer/tour/PTZ activation/snapshot/email. Choose from 5 to 600 seconds.
		Note This anti-dither time does not include the Latch (delay) time.
•	Show Message	Select the check box to enable a pop-up message on your local host PC.
•	Alarm Upload	Select the check box to enable the system to

upload an alarm signal to the network (including to an alarm center and/or web

Figure 10-5

		client).
•	Send Email	Select the check box to enable the system to send an email notification. If the Snapshot function is enabled, an image can be attached to the email.
•	Record Channel	Select the channel(s) that you want to record. In the Delay box, specify the amount of time (1–300 s) to delay recording after a motion detection event is triggered.

Note You also need to set the motion detection recording period. Go to **Storage > Schedule** to configure the current channel for scheduled recording. See *Configuring the Video Recording Schedule* on page 39.

•	PTZ Activation	Select the check box to activate PTZ functions, and then click Select . In the PTZ Activation window, for each PTZ camera, select the preset, tour, or pattern that you want to be called when a motion detection event occurs, and then click OK .
•	Delay (Latch)	Set a length of time for the DVR to delay turning off events and activated input after an external alarm is cancelled.
•	Tour	Select the check box to enable a tour of the selected channels.
•	Snapshot	Select the check box to take a snaphot of selected channels.
•	Video Matrix	Click to enable. When an event occurs, the SPOT OUT port video (a 1-window tour) from the event activation channel selected in the Record Channel.
•	Buzzer	Select the check box to activate a buzzer noise at the DVR.
•	Log	Click to enable the DVR to record a local event log.
•	Voice Prompts	Select to enable audio broadcast/voice prompts in response to a motion detection event.
•	File Name	Select a file for the voice prompt.

- 3. Click **Apply** to save your settings.
- 4. To test your settings, click **Test**.
- 5. To copy the motion detection settings to additional channels, click **Copy**, select the channels that you want to copy the settings to, and then click **OK**.

Configuring Video Loss Settings

To configure video loss settings

1. Go to Main Menu \rightarrow Setting \rightarrow Event \rightarrow Video Detect \rightarrow Video Loss.

SETTING						Honeywell
ந CAMERA		EVENT	🛃 sтс	RAGE	🛃 SYSTEM	
CAMERA VIDEO DETECT FACE DETECT ALARM ABNORMALITY IOT	Motion Detect Channel Enable Period Show Message Record Channe PTZ Activation Tour Snapshot Buzzer Voice Prompts	Video Loss Video Loss Set Video Loss Video Loss Video Loss Video Los Video Los V	Tampering CAM Antic CAM Antic 3 7 3 Delay 3 7 8 3 7 8	Diagnosis Dither 0	SYSTEM	
	Default Co	ру	C	Save	Cancel	Apply

Figure 10-6

- 2. On the Video Loss tab, in the Channel box, select the channel (camera) that you want to configure video loss detection settings for.
- 3. Select the **Enable** check box to enable video loss detection for the selected channel.
- 4. To set the periods when video loss detection is active, next to Period, click **Set**, and then follow the steps listed in *To set up motion detection periods* on page 86.
- 5. To set the actions that you want the system to initiate when a video loss event occurs, follow the steps listed in *To set up motion detection event actions* on page 88.
- 6. Click **Apply** to save your settings.
- 7. To copy the settings to additional channels, click **Copy**, select the channels that you want to copy the settings to, and then click **OK**.

Configuring Tampering Settings

To configure video tampering settings

1. Go to Main Menu → Setting → Event → Video Detect → Tampering.

SETTING						Honeywell
		EVENT		RAGE	SYSTEM	
VIDEO DETECT FACE DETECT ALARM ABNORMALITY	Motion Detect Channel Enable	Video Loss 1 ✓	Tampering	Diagnosis 3		
ΙΟΤ	Period Show Message Record Channe		CAM AntiD ad Send Er 6 7 8		sec.	
	 PTZ Activation Tour Snapshot Buzzer Voice Prompts 	Set 5/2345 5/2345 5/Log File Name No	678	10	sec.	
	·		ine I•	Save	Cancel	Apply

Figure 10-7

- 2. On the **Tampering** tab, in the **Channel** box, select the channel (camera) that you want to configure video tampering detection settings for.
- 3. Select the **Enable** check box to enable video tampering detection for the selected channel.
- 4. In the **Sensitivity** box, set the sensitivity level. Select a value between 1 and 6, with 6 being the highest sensitivity. The default setting is **3**.
- 5. To set the periods when video tampering detection is active, next to Period, click **Set**, and then follow the steps listed in *To set up motion detection periods* on page 86.
- 6. To set the actions that you want the system to initiate when a video tampering event occurs, follow the steps listed in *To set up motion detection event actions* on page *88*.
- 7. Click **Apply** to save your settings.
- 8. To copy the settings to additional channels, click **Copy**, select the channels that you want to copy the settings to, and then click **OK**.

Configuring Diagnosis Settings

You can configure the Diagnosis settings to alert you when the video is blurry, overexposed, or the color changes.

To configure diagnosis settings

1. Go to Main Menu \rightarrow Setting \rightarrow Event \rightarrow Video Detect \rightarrow Diagnosis.

SETTING						Honeywell
📆 CAMERA	📬 NETWORK	EVENT	STO	RAGE	SYSTEM	
VIDEO DETECT FACE DETECT ALARM ABNORMALITY IOT	Motion Detect Channel Enable Period Show Message Buzzer Voice Prompts	1 Set ✓ Alarm Uploa			Set	
	Default			Save	Cancel	Apply

Figure 10-8

2. Click **Set**. The Diagnosis window appears.

Figure 10-9

SETTING						
🚡 CAMERA	TWORK	📷 EVENT	STC	DRAGE [SYSTEM	
VIDEO DETECT FACE DETECT ALARM ABNORMALITY IOT	Motion Detect Channel Diagnosis Stripe	Video Loss	Tampering	Diagnosis Honeywel		
	Noise Color Cast Out of Focus Overexposu			30 30 30 30		
	Default	ОК	Cancel	Save	Cancel	Apply

- 3. Select the channel (camera) for which you want to configure diagnosis settings.
- 4. Select the Enable check box to enable diagnosis for the selected channel.
- 5. Click to configure the settings for the following parameters:
 - Stripe A vertical, horizontal, or diagonal stripe might occur due to electronic interference or age of the device. Click to set the sensitivity.

- Noise
 Click to set the sensitivity of the DVR's response to video noise, including blurry video and optical distortion.
- **Color Cast** Click to set the sensitivity of the DVR's response to variances in normal RGB appearance.
- Out of Focus
 Click to set the sensitivity of the DVR's response to focus/distortion issues, including blurry video and optical distortion.
- **Over Exposure** The color brightness of the video is affected by the image pixel intensity. Select from 0 (the darkest black) to 255 (the brightest white). If the brightness of the entire image exceeds the threshold, then the image is over exposed.
- 6. Click **Apply** to return to the Diagnosis tab.
- 7. To set the periods when diagnosis is active, next to Period, click **Set**, and then follow the steps listed in *To set up motion detection periods* on page *88*.
- 8. Select the actions that you want the system to initiate when a diagnosis event occurs:

•	Show Message	Select the check box to enable a pop-up message on your local host PC.
•	Alarm Upload	Select the check box to enable the system to upload an alarm signal to the network (including to an alarm center and/or web client).
•	Send Email	Select the check box to enable the system to send an email notification. If the Snapshot function is enabled, an image can be attached to the email.
•	Buzzer	Select the check box to activate a buzzer noise at the DVR.
•	Log	Click to enable the DVR to record a local alarm log.
•	Voice Prompts	Select to enable audio broadcast/voice prompts in response to a motion detection event.
•	File Name	Select a file for the voice prompt.

9. Click **Apply** to save your settings.

Configuring Face Detection Settings

The DVR can recognize human faces, draw a rectangle around the face, and then trigger recording, snapshots, and alarms, for example.

To configure face detection settings

1. Go to Main Menu → Setting → Event → Video Detect → Face Detect.

SETTING					Honeywell
N CAMERA			STORAGE	SYSTEM	
VIDEO DETECT FACE DETECT ALARM ABNORMALITY IOT	Channel Enable Period Send Email Record Channel PTZ Activation Snapshot Buzzer Voice Prompts	Set	Delay	Set	
	Default		Save	Cancel	Apply

Figure 10-10

- 2. Select the channel (camera) for which you want to configure face detection settings.
- 3. Click **Set** to configure the Target Filter area.
- 4. Select the Enable check box to enable face detection for the selected channel.
- 5. Select the actions that you want the system to initiate when a face detection event occurs:

•	Send Email	Select the check box to enable the system to send an email notification. If the Snapshot function is enabled, an image can be attached to the email.
•	Record Channel	Select the channel(s) that you want to record. In the Delay box, specify the amount of time (1–300 s) to delay recording after a motion detection event is triggered.
		Note : You also need to set the motion detection recording period. Go to Storage > Schedule to configure the current channel for scheduled recording. See <i>Configuring the Video Recording Schedule</i> on page <i>39</i> .
•	PTZ Activation	Select the check box to activate PTZ functions, and then click Select . In the PTZ Activation window, for each PTZ camera, select the preset, tour, or pattern that you want to be called when a motion detection event occurs, and then click OK .
•	Delay (Latch)	Set a length of time for the DVR to delay turning off alarms and activated input after an external alarm is cancelled.
•	Snapshot	Select the check box to take a snaphot of selected

channels.

- **Buzzer** Select the check box to activate a buzzer noise at the DVR.
- Log Click to enable the DVR to record a local alarm log.
- Voice Prompts Select to enable audio broadcast/voice prompts in response to a motion detection event.
- File Name Select a file for the voice prompt.
- 6. Click **Apply** to save your settings.

Configuring Alarms

If your IP camera has alarm ports and alarm/event functions, then the DVR can receive the alarm message from the camera, and react by recording video, taking a snapshot, and/or sending an email.

Configuring Remote Alarms

Configure the DVR to record video, take a snapshot, activate a PTZ camera preset,/tour/pattern, and/or send an email if the DVR detects an issue with the I-View Now software.

Click **Remote Alarm** in the **Alarm** configuration interface to open the **Remote Alarm** configuration interface.

SETTING					Honeywell
📆 CAMERA		EVENT	STORAGE	SYSTEM	
VIDEO DETECT FACE DETECT ALARM ABNORMALITY IOT	Remote Alarm Alarm In Enable Period	1 IV	Alarm Name	Alarm In1	_
	Show Message Record Channel		Send Email 3 8 Delay	10 sec.	
	 Tour Snapshot Video Matrix 	V 2 3 4 5 6 V 2 3 4 5 6 6 V 2 3 4 5 6 6 Buzzer Buzzer 5 6 6 6 6	28 28 ©Log		
	Voice Prompts Default Cop	File Name <u>None</u> y	I▼ Save	Cancel	Apply

Figure 10-11 Remote Alarm Configuration Interface

Table 8-1			
Configuration	Description		
Enable	Click to enable alarms. Select a channel from the drop-down list.		
Alarm Name	Enter an alarm name.		
Period	 Define a period during which motion detection is active. 1. Click Set. The Set configuration interface appears. Image: Set of the Set of t		
Show Message	Click to enable a pop-up message on your local host PC screen to let you know an alarm has occurred.		
Send Email	The system can send an email when an alarm is detected. When you have enabled the Snapshot function, the system can also send an image attached to the email. Go to Main Menu →Setting →Network→Email to configure the email settings. See <i>Configuring Email Settings</i> on page 78.		
Record Channel	The system automatically starts recording selected channels when a motion detection alarm occurs. Note You need to set the alarm recording period. Go to Storage→Schedule to configure the current channel for scheduled recording. See Configuring Record Settings on page 111.		
PTZ Activation	When PTZ activation is configured, the system can activate. 1. Click Set to open the PTZ Activation configuration interface.		

Table 8-1
	PTZ Activation Honeywell
	CAM 1 None I 0 CAM 2 None I 0
	CAM 3 None IV 0 CAM 4 None IV 0
	CAM 5 None IV 0 CAM 6 None IV 0
	CAM 7 None I 0 CAM 8 None I 0 CAM 9 None I 0 CAM 10 None I 0
	CAM 9 None I 0 CAM 10 None I 0 CAM 11 None I 0 CAM 12 None I 0
	CAMITI None IV 0 CAMITI None IV 0
	CAM 15 None I 0 CAM 16 None I 0
	OK Cancel
	2. Select a preset, tour, or pattern from the drop-down menu.
	Click Save.
Delay	The system can delay recording for a specified amount of time after an alarm has ended. Select from 10s to 300s .
	Click to enable a tour to be triggered by an alarm. The system supports 1/8-
	window tour. See <i>Configuring Display Settings</i> on page 119 for tour interval setup. On the Display Settings tab, when there are two tours enabled by
Tour	default, you can configure the system so an alarm triggers the system to
	enable the alarm tours you configured here. If there is no alarm, then the
	system uses the tour setup that was configured in the Display interface.
	Click to enable the Snapshot function. Channel snapshots are taken according
Snapshot	to the schedule you configure. Alarm snapshots are taken when an alarm
•	occurs.
	Click to enable. When an alarm occurs, the SPOT OUT port video (a 1-
Video Matrix	window tour) from the alarm activation channel selected in the Record
	Channel.
D	Click to enable the Buzzer function. When an alarm occurs, the buzzer
Buzzer	beeps.
Log	Click to enable the DVR to record a local alarm log.
Voice Prompts	Select to enable audio broadcast/voice prompts in response to a motion detection event.
E 11 A1	
File Name	Select a file for the voice prompt.

Configuring Abnormality Settings

There are three types of system events that can be configured in the **Abnormality** tab:

- HDD errors (no disk, disk error, nospace)
- Network errors (no connection, IP conflict, MAC conflict)
- User errors (illegal logins)

Configuring HDD Event Settings

To configure HDD event settings

1. Go to Main Menu \rightarrow Setting \rightarrow Event \rightarrow Abnormality \rightarrow HDD.

Figure 10-12	2				
SETTING					Honeywell
📆 CAMERA		EVENT	STORAGE	SYSTEM	
VIDEO DETECT FACE DETECT ALARM ABNORMALITY IOT	HDD Event Type Enable	Network	User		
	Show Message ✓ Buzzer ● Voice Prompts	√Log	Send Email		
			Save	Cancel	Apply

- 2. On the HDD tab, in the Event Type box, select the event type that you want to configure settings for: No HDD, HDD Error, HDD No Space.
- 3. Select the Enable check box to enable HDD error detection.
- 4. Select the actions that you want the system to initiate when the selected event occurs:

•	Show Message	Select the check box to enable a pop-up message on your local host PC.
•	Alarm Upload	Select the check box to enable the system to upload an alarm signal to the network (including to an alarm center and/or web client).
•	Send Email	Select the check box to enable the system to send an email notification.
•	Buzzer	Select the check box to activate a buzzer noise at the DVR.
•	Log	Click to enable the DVR to record a local alarm log.
•	Voice Prompts	Select to enable audio broadcast/voice prompts in response to a motion detection event.
•	File Name	Select a file for the voice prompt.

5. Click **Apply** to save your settings.

Configuring Network Errors

To configure network event settings

1. Go to Main Menu \rightarrow Setting \rightarrow Event \rightarrow Abnormality \rightarrow Network.

Figure 10-13						
SETTING						Honeywell
CAMERA		EVENT	STOR/	AGE	SYSTEM	
VIDEO DETECT FACE DETECT ALARM ABNORMALITY	HDD Event Type Enable	Network	User			
ЮТ	Show Messag	e el 57 2 6 4 5 6	Send Ema	il		
	Buzzer Voice Prompts	✓Log	Delay	10	sec.	
				Save	Cancel	Apply

- 2. On the Network tab, in the Event Type box, select the event type that you want to configure settings for: Net Disconnetion, IP Conflicted, MAC Conflicted.
- 3. Select the Enable check box to enable HDD error detection.
- 4. Select the actions that you want the system to initiate when the selected event occurs:

Show Message	Select the check box to enable a pop-up message on your local host PC.
Send Email	Select the check box to enable the system to send an email notification.
Record Channel	Select the channel(s) that you want to record. In the Delay box, specify the amount of time (1–300 s) to delay recording after a motion detection event is triggered.
	Note You also need to set the motion detection recording period. Go to Storage → Schedule to configure the current channel for scheduled recording. See Configuring the Video Recording Schedule on page 39.
Buzzer	Select the check box to activate a buzzer noise at the DVR.
• Log	Click to enable the DVR to record a local alarm log.
• Delay (Latch)	Set a length of time for the DVR to delay turning off

alarms and activated input after an external alarm

is cancelled.

- Voice Prompts Select to enable audio broadcast/voice prompts in response to a motion detection event.
- File Name Select a file for the voice prompt.
- 5. Click **Apply** to save your settings.

Configuring for User Errors

To configure user event settings

1. Go to Main Menu \rightarrow Setting \rightarrow Event \rightarrow Abnormality \rightarrow User.

Figure 10-14	ł				
SETTING					Honeywell
CAMERA		EVENT		SYSTEM	
VIDEO DETECT FACE DETECT ALARM ABNORMALITY IOT	HDD Event Type Enable	Network		3 30 min.	
	Buzzer	✔Log : File Name <mark>None</mark>	Send Email		
			Save	Cancel	Apply

- 2. On the User tab, in the Event Type box, select the event type that you want to configure settings for: Illegal Login.
- 3. Select the Enable check box to enable user error detection.
- 4. Select the number of allowable Attempts before the action is taken, from 0 to 255.
- 5. Select how long the action (lockout) lasts, from 0 to 60 minutes.
- 6. Select the actions that you want the system to initiate when the selected event occurs:
 - Send Email Select the check box to enable the system to send an email notification.
 - **Buzzer** Select the check box to activate a buzzer noise at the DVR.
 - Log Click to enable the DVR to record a local alarm log.
 - Voice Prompts Select to enable audio broadcast/voice prompts in response to a motion detection event.

- File Name
- Select a file for the voice prompt.
- 7. Click **Apply** to save your settings.

Configuring Temperature and Humidity Camera (IOT)

You can configure the temperature and humidity data of camera with such sensors and configure the alarm event settings.

To use this function, please make sure there is at least one camera with temperature and humidity sensor has been connected to the Device.

Configuring Temperature

To configure the temperature:

1. Go to Main Menu → Setting → Event → IOT → Temperature.

SETTING			
			Honeywell
🚡 CAMERA 🛛 📅 NETWORK 🛛 👼	EVENT	STORAGE	SYSTEM
FACE DETECT Channel		Alarm Name 🛛 🗍	C Enable
PTZ Activation Tour Snapshot Video Matrix	Sei 1234567	Send Email S 9 10 11 (2 13 14 (5) Delay 10 S 9 10 11 (2 13 14 (5) S 9 10 11 (2 13 14 (5) Cog Log	in and sec. 16
Default		Save	Cancel Apply

- 2. On the Temperature tab, select the Channel you want to configure and input the Alarm Name.
- 3. Select the Enable check box to enable Temperature configuration.
- 4. Select the actions that you want the system to initiate when the selected event occurs:

Figure 10-15

Table 10	D-2		
Configuration	Description		
Туре	Select event type as High or Low, and set the upper and low temperature limit respectively. For example, select event type as High and set upper limit as 28, the alarm occurs when the temperature reaches 28°C.		
Upper Limit	Select event type as High or Low, and set the upper and low temperature limit respectively. For example, select event type as High and set upper limit as 28, the alarm occurs when the temperature reaches 28°C.		
Show Message	Click to enable a pop-up message on your local host PC screen to let you know an alarm has occurred.		
Send Email	The system can send an email when an alarm is detected. When you have enabled the Snapshot function, the system can also send an image attached to the email. Go to Main Menu → Setting → Network → Email to configure the email settings. See <i>Configuring Email Settings</i> on page 78.		
Record Channel	The system automatically starts recording selected channels when a motion detection alarm occurs. Note You need to set the alarm recording period. Go to Storage→Schedule to configure the current channel for scheduled recording. See Configuring Record Settings on page 111.		
PTZ Activation	When PTZ activation is configured, the system can activate. 1. Click Set to open the PTZ Activation configuration interface. Image: Control Contrector Contecontrol Contecontrol Contrel Control Control Control Co		
Delay	The system can delay recording for a specified amount of time after an alarm has ended. Select from 10s to 300s .		
Tour	Click to enable a tour to be triggered by an alarm. The system supports 1/8- window tour. See <i>Configuring Display Settings</i> on page 119 for tour interval setup. On the Display Settings tab, when there are two tours enabled by default, you can configure the system so an alarm triggers the system to enable the alarm tours you configured here. If there is no alarm, then the system uses the tour setup that was configured in the Display interface.		
Snapshot	Click to enable the Snapshot function. Channel snapshots are taken according to the schedule you configure. Alarm snapshots are taken when an alarm occurs.		

Video Matrix	Click to enable. When an alarm occurs, the SPOT OUT port video (a 1- window tour) from the alarm activation channel selected in the Record Channel.
Buzzer	Click to enable the Buzzer function. When an alarm occurs, the buzzer beeps.
Log	Click to enable the DVR to record a local alarm log.
Voice Prompts	Select to enable audio broadcast/voice prompts in response to a motion detection event.
File Name	Select a file for the voice prompt.

5. Click **Apply** to save your settings.

Configuring Humidity

To configure the Humidity:

1. Go to Main Menu \rightarrow Setting \rightarrow Event \rightarrow IOT \rightarrow Humidity.

Figure 10-16

SETTING				Honeywel
No. CAMERA		🔂 EVENT	STORAGE	SYSTEM
VIDEO DETECT FACE DETECT ALARM ABNORMALITY IOT	Temperature Channel Type	Humidity 1 I* High I*	Alarm Name	Enable %RH
	Show Message Record Channel PTZ Activation Tour Snapshot Video Matrix Voice Prompts	Sei 123456(Send Email 7 8 9 10 11 12 13 12 Delay 7 8 9 10 11 12 13 12 7 8 9 10 11 12 13 12 1 8 9 10 11 12 13 12 Log	 10 sec. 91516
	Default		Save	Cancel Apply

- 2. On the Humidity tab, select the Channel you want to configure and input the Alarm Name.
- 3. Select the Enable check box to enable Humidity configuration.
- 4. Select the actions that you want the system to initiate when the selected event occurs:

Configuration	Description		
Туре	Select event type as High or Low, and set the upper and low humidity limit respectively. For example, select event type as High and set upper limit as 28, the alarm occurs when the temperature reaches 28.		
Upper Limit	Select event type as High or Low, and set the upper and low humidity limit respectively. For example, select event type as High and set upper limit as 28, the alarm occurs when the temperature reaches 28.		
Show Message	Click to enable a pop-up message on your local host PC screen to let you know an alarm has occurred.		
Send Email	The system can send an email when an alarm is detected. When you have enabled the Snapshot function, the system can also send an image attached to the email. Go to Main Menu →Setting →Network→Email to configure the email settings. See <i>Configuring Email Settings</i> on page 78.		
Record Channel	 The system automatically starts recording selected channels when a motion detection alarm occurs. Note You need to set the alarm recording period. Go to Storage→Schedule to configure the current channel for scheduled recording. See Configuring Record Settings on page 111. 		
PTZ Activation	When PTZ activation is configured, the system can activate. 1. Click Set to open the PTZ Activation configuration interface. PTZ Activation CAM1 None CAM3 None CAM4 None CAM5 None CAM6 None CAM7 None CAM11 CAM13 None CAM11 None CAM11 None CAM13 None CAM14 None CAM13 None CAM13 None CAM15 None Cox		
Delay	The system can delay recording for a specified amount of time after an alarm has ended. Select from 10s to 300s .		
Tour	Click to enable a tour to be triggered by an alarm. The system supports 1/8- window tour. See <i>Configuring Display Settings</i> on page 119 for tour interval setup. On the Display Settings tab, when there are two tours enabled by default, you can configure the system so an alarm triggers the system to enable the alarm tours you configured here. If there is no alarm, then the system uses the tour setup that was configured in the Display interface.		
Snapshot	Click to enable the Snapshot function. Channel snapshots are taken according to the schedule you configure. Alarm snapshots are taken when an alarm occurs.		

	window tour) from the alarm activation channel selected in the Record Channel.
Buzzer	Click to enable the Buzzer function. When an alarm occurs, the buzzer beeps.
Log	Click to enable the DVR to record a local alarm log.
Voice Prompts	Select to enable audio broadcast/voice prompts in response to a motion detection event.
File Name	Select a file for the voice prompt.

5. Click **Apply** to save your settings.

11. Configuring Storage Settings

This chapter contains the following sections:

- Configuring the Configuring the Basic Settings, page 106
- Configuring the Video Recording Schedule, page 107
- Configuring HDD Settings, page 110
- Configuring FTP, page 111
- Configuring Record Settings, page 111
- Configuring HDD Diagnostic Settings, page 112

Configuring the Basic Settings

Figure 11-1

Go to Main Menu → SETTING → STORAGE → BASIC.

SETTING			Honeywell
📆 CAMERA	77 NETWORK 📷 EVENT	STORAGE	SYSTEM
BASIC SCHEDULE HDD MANAGE FTP RECORD HDD DETECT	HDD Full Overwrite IT Pack Mode Time Length IT 60 Auto-Delete Old Files Never IT	min.	
	Default	Save	Cancel Apply

HDD Full: Set to Overwrite to continue recording over old data when the HDD is full. Set to Stop Record to stop recording when the HDD is full. The default setting is **Overwrite**.

Pack Mode: Set time length or file length. Specify a time between 1 and 60 minutes. The default setting is 60 min; specify file length between 0 and 1025M.

Auto Delete Old Files: Select Never or Customized. If Customized is selected, in the Days Ago box, enter the amount of time to elapse before the files are automatically deleted.

Configuring the Video Recording Schedule

Configuring the video recording schedule

1. Go to Main Menu → Setting → Storage → Schedule → Record.

SETTING	Honeywell
N CAMERA	TRANSPORT TRANSPORT
BASIC	Record Snapshot
SCHEDULE	Channel 1 🕞 Pre-record 4 sec. 🔲 Redundancy
HDD MANAGE FTP RECORD	
HDD DETECT	□ Sunday Monday
	🗅 Tuesday
	• Wednesday
	• Thursday
	• Friday
	• Saturday
	Default Copy Save Cancel Apply

Figure 11-2

- 2. On the **Record** tab, in the **Channel** box, select the channel (camera) that you want to configure a recording schedule for.
- 3. In the **Pre-Record** box, enter a time between 0 and 30 seconds. The default setting is 4 seconds. The pre-record time sets how long the DVR records before the scheduled recording start time. For example, if the DVR is scheduled to start recording at 12:00 and the pre-record time is set to 4 seconds, the DVR will start recording at 11:59:56.
- 4. If the DVR has two HDDs, select the Redundancy check box to enable redundant recording on the second HDD. This HDD must first be configured as redundant on the HDD Manage page (see *Configuring HDD Settings* on page *110*).
- 5. At the top of the scheduling table, select the check box(es) of the recording type(s) that you want to schedule:
 - **Regular** The regular recording schedule is indicated by a

		green bar.
•	MD	The motion detection recording schedule is indicated by a yellow bar.
•	Alarm	The alarm recording schedule is indicated by a red bar.
•	MD&Alarm	The motion detection and alarm schedule is indicated by a blue bar.
•	Intel	Intelligent identification recording, or Face Detection recording, is indicated by an orange bar.

- 6. At the left of the scheduling table, select the day(s) of the week that you want to configure a recording schedule for. To configure the same recording schedule for all of the days at the same time, select **All**.
- 7. Click or drag the mouse in the scheduling table to set the recording period. To erase a recording period, click the eraser icon at the right of the table. Alternatively, for the day of the week that you want to configure, click the gear icon at the right of the table. In the **Period** window, set up to six recording periods. To copy the settings to additional days, select the appropriate check box(es) under **Copy**, and then click **Save**.
- 8. Click **Apply** to save your settings.
- 9. To copy the settings to additional channels, click **Copy**, select the channels that you want to copy the settings to, and then click **OK**.

Configuring the Snapshot Recording Schedule

Follow these steps to configure the snapshot recording function. When enabled, the DVR can take snapshots when a motion detection, video loss, video tampering, or alarm event occurs. See *Chapter 10, Configuring Event Settings* for detailed instructions.

To configure the snapshot recording schedule

1. Go to Main Menu \rightarrow Setting \rightarrow Storage \rightarrow Schedule \rightarrow Snapshot.

Figure 11-3

- 2. On the Snapshot tab, in the Channel box, select the channel (camera) that you want to configure a recording schedule for.
- 3. At the top of the scheduling table, select the check box(es) of the recording type(s) that you want to schedule:
 - Regular
 The regular recording schedule is indicated by a green bar.
 - MD The motion detection recording schedule is indicated by a yellow bar.
 - Alarm The alarm recording schedule is indicated by a red bar.
 - MD&Alarm The motion detection and alarm schedule is indicated by a blue bar.
 - Intel
 Intelligent identification recording, or Face
 Detection recording, is indicated by an orange bar.
- 4. At the left of the scheduling table, select the day(s) of the week that you want to configure a recording schedule for. To configure the same recording schedule for all of the days at the same time, select **All**.
- 5. Click or drag the mouse in the scheduling table to set the recording period. To erase a recording period, click the eraser icon at the right of the table. Alternatively, for the day of the week that you want to configure, click the gear icon at the right of the table. In the **Period** window, set up to six recording periods. To copy the settings to additional days, select the appropriate check box(es) under **Copy**, and then click **Save**.
- 6. Click **Apply** to save your settings.
- 7. To copy the settings to additional channels, click **Copy**, select the channels that you want to copy the settings to, and then click **OK**.

Configuring HDD Settings

To configure HDD settings

1. Go to Main Menu \rightarrow Setting \rightarrow Storage \rightarrow HDD Manage.

Figure 11-4			
SETTING	Honeywe		
N CAMERA	TRAGE EVENT STORAGE SYSTEM		
BASIC SCHEDULE HDD MANAGE FTP RECORD	SATA 1 2 O · 1 [°] Device Name Type Status Free Space/Total Space		
HDD DETECT	All . 0.00 MB/1.81 TB 1' SATA-1 Read-Write I* Normal 0.00 MB/1.81 TB I' SATA-1 Read-Write I* Normal 0.00 MB/1.81 TB		
SATA	o indicates the current HDD is normal. x indicates there is an error. - indicates that there is no HDD. ? indicates that a HDD is damaged.		
Device Name	The HDD name.		
Туре	The HDD type (read-write orread-only)		
Status	The current operating status of the HDD.		
Free Space/ Total Space	The amount of free space remaining on the HDD/ The total capacity of the HDD.		

- 2. The HDD is configured as read-write by default. To change the HDD type to read-only, in the **Type** column, select **Read-only HDD**. The DVR restarts to apply the new setting.
- 3. To erase all the data from the HDD, click **Format**. The message "Confirm format on the selected device?" Click **OK** to continue.

Configuring FTP

To configure FTP settings

1. Go to Main Menu \rightarrow Setting \rightarrow Storage \rightarrow FTP.

Figure 11-5					
SETTING					
N CAMERA		T EVENT	STORAGE	-	SYSTEM
BASIC SCHEDULE HDD MANAGE FTP RECORD HDD DETECT	Enable Host IP User Name Password Remote Directory Image Upload Interva Channel Week Day Period 1 Period 2	1 I▼ Wed I▼ 00:00 - 24	Anonymous File Length () sec.		M Regular
	Default Test		Save	a Can	cel Apply

- 2. On the **FTP** page, click the **Enable** check box to enable uploading images to an FTP server.
- 3. Configure the following settings:

Host IP: Enter the address of the FTP server.

Port: Enter the port of the FTP server.

Username: Enter the user name for logging on to the FTP server.

Password: Enter the password for logging on to the FTP server.

Anonymous: Select the check box to hide user name when logged on to the FTP server.

Remote Directory: Enter a name for the remote directory. If this is left blank, the NVR will automatically create folder names.

File Length: This is the maximum size for image files being uploaded to the FTP server. Enter a value between **0** and **65535** MB.

Image Upload Interval: This is the interval for uploading images to the FTP server. Enter a time between 1 and 600 seconds.

Channel: Select a channel to upload images from, or select All to select all channels.

Weekday: Select a day of the week to upload images on, or select **All** to upload images every day.

Time Periods: You can configure up to two time periods for uploading images. For each period, select either **Alarm&Analytics**, **Motion**, or **Regular** images.

4. Click **Apply** to save your settings. To test the FTP connection, click **Test**.

Configuring Record Settings

To configure record settings

1. Go to Main Menu \rightarrow Setting \rightarrow Storage \rightarrow Record.

Figure 11-6

SETTING		ł	loneywell
N CAMERA		EVENT SYSTEM	
BASIC	Main Stream	Ali 12345678	
SCHEDULE	Auto	0 0000000	
HDD MANAGE	Manual	0 0000000	
FTP	Stop	0 0000000	
RECORD	Sub Stream		
HDD DETECT	Auto	0 0000000	
	Manual	0 0000000	
	Stop	0 ••••••	
	Snapshot		
	Enable	0 0000000	
	Disable	0 ••••••	
		Save Cancel A	pply

- 2. On the **Record** page, select the record types (Schedule, Manual, Stop) that you want to enable on each channel for both the main stream and secondary stream.
- 3. Under **Snapshot**, enable or disable snapshot recording on each channel.
- 4. Click **Apply** to save your settings.

Configuring HDD Diagnostic Settings

To run a diagnostic test on the HDD

1. Go to Main Menu → Setting → Storage → HDD Detect → Detect.

SETTING Imaginal CAMERA Imaginal Imaginal BASIC Detect Report SCHEDULE Type Quick Detect HDD HDD MANAGE Imaginal Block Imaginal FTP Good Bad Block HDD DETECT Imaginal Detected HDD No. Imaginal HDD DETECT Imaginal Imaginal Imaginal Imaginal HDD DETECT Imaginal Imaginal Imaginal Imaginal Imaginal HDD DETECT Imaginal Imagina	SETTING		Horowell
SCHEDULE Type Quick Detect HDD Select HDD(s) Start Detect Stop Detect HDD MANAGE FTP Good Bad Block 0 MB HDD DETECT HDD DETECT Image: Construction of the select of the se		👼 NETWORK 🛛 📷 EVENT	
	SCHEDULE HDD MANAGE FTP RECORD		Good Bad Block = 0 MB Detected HDD No. 0 Total Space 0.00 GB Error - Current HDD - Detect Speed - Process - Detect Time -

Figure 11-7

- 2. On the Detect tab, in the Type box, select the diagnostic test that you want to run: Quick Detect or Global Detect.
- 3. In the **HDD** box, select the check box of the HDD that you want to test.
- 4. Click **Start Detect** to start the diagnostic test.

To view and/or back up the diagnostic test results

1. Click the **Report** tab, double click the report that you want to view. The Details window opens.

Details		Honeywell
Detect Results S.M.A.R.T		
Type Quick Detect Ir Backup to USB Devic	es	
	Good Bad ■ = 829 MB	Block
	Detected HDD No.	1
	Total Space	1863.02 GB
	Error	0
	HDD Port No.	1

Figure 11-8

- 5. In the **Details** window, on the **Detect Results** tab, you can view a graphical depiction of the HDD's overall health. Any bad sectors are marked red.
- 6. To back up the test results to an external USB storage device, ensure that a USB storage device (such as a USB flash drive) in connected to one of the USB ports on the DVR, and then click **Backup to USB Devices**. If the backup is successful, the message "BackupSucceed" appears.
- 7. To view S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) details, click the S.M.A.R.T tab.

Figure 11-9

Details					loneywel
Detect Result	S.M.A.R.T				
Port 1					
Model ST20	00V/M003-1ET164				
No. Z520	V8Z6				
Status OK					
Describe:					
	Au 1	There is a lat	261		
Smart ID	Attribute	Threshold		Worst Value 99	A
3	Read Error Rate	6 0	118 98	99	
4	Spin Up Time	20	98	100	
5	Start/Stop Count Reallocated Sector Count	10	100	100	
5	Seek Error Rate	30	62	60	
9	Power On Hours Count	0	100	100	
10		97	100	100	
10	Spin-up Retry Count Power On/Off Count	20	100	100	
184	End-to-End Error	99	100	100	
104		33	100	100	
					•

12. Configuring System Settings

This chapter contains the following sections:

- Configuring General System Settings, page 115
- Configuring Display Settings, page 119
- Configuring Video Matrix Settings, page 123
- Configuring RS232 Settings, page 124
- Configuring Pan/Tilt/Zoom Settings, page 124
- Configuring ATM/POS (Card Overlay) Settings, page 125
- Configuring Voice Settings, page 127
- Configuring Account Settings, page 129
- Configuring Security, page 133
- Configuring Automatic Maintenance Settings, page 134
- Exporting and Importing System Configurations, page 135
- Restoring Default Settings, page 137
- Upgrading the DVR, page 137

Configuring General System Settings

Configuring Device Settings

To configure general settings

1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow General \rightarrow General.

SETTING				Honeywell
N CAMERA		EVENT	STORAGE	SYSTEM
GENERAL	General Date	e&Time	Holiday	
DISPLAY VIDEO MATRIX RS232 PTZ ATM/POS VOICE ACCOUNT SECURITY AUTO MAINTAIN IMP/EXP DEFAULT	Device Name Device No. Language Video Standard Instant Play Auto Logout IPC Time Sync IPC Time Sync Navigation Bar Startup Wizard Mouse Sensitivity	HQA 8 ENGLIS NTSC 5 10 24 Slow 90	IT min. Monitor h	Channel(s) when logout
UPGRADE	Validity period of pass. Validity period of pass		I▼ Day Save	Cancel Apply

Figure 12-1

- 2. On the General tab, configure the following settings:
 - **Device Name** Enter a device name for the DVR.
 - **Device No.** Enter a device number for the DVR.
 - Language Set the language of the user interface.
 - Video Standard Set the video standard to NTSC or PAL.
 - Instant Play Play back the previous 5 to 60 minutes of recorded video.

Note: The playback time is set to 5 minutes by default.

- Auto Logout
 Set the length of time the DVR waits before logging out an inactive user. Specify a time between 0 and 60 minutes. The default setting is 10 min.
- Navigation Bar Select the check box to display the live view toolbar on the live view screen. Clear the check box to hide the live view toolbar.
- IPC Time Sync input an interval here to synchronize the DVR time with the IPC time.
- Startup Wizard Select the check box to display the Startup Wizard at startup. Clear the check box to bypass the Startup Wizard at startup.
- Mouse Sensitivity Set the desired mouse speed using the slider.
- Validity Period of pass... Enter the Validity Period of password.

3. Click **Apply** to save your settings.

Configuring Date and Time Settings

To configure the system time setting

1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow General \rightarrow Date&Time.

Figure 12-2	
SETTING	Honeywell
🗓 CAMERA	7 NETWORK 📷 EVENT 🔤 STORAGE 🛃 SYSTEM
GENERAL	General Date&Time Holiday
DISPLAY VIDEO MATRIX	Date Format YYYY MM DDI▼ Time Format 24-HOUR I▼ Date Separator - I▼
RS232 PTZ	System Time 2018 - 02 - 09 19 : 01 : 58 GMT+00:00 I
ATM/POS VOICE	■ DST DST Type O Week ● Date
ACCOUNT	Start Time © 2000 - 01 - 01 00 : 00
SECURITY AUTO MAINTAIN	End Time © 2000 - 01 - 01 00 : 00
IMP/EXP DEFAULT	Host IP (time.windows.com Manual Update
UPGRADE	Port 123 Interval 60 min.
	Default Save Cancel Apply

- 2. On the Date&Time tab, configure the following settings:
 - Date Format
 Select the date format that you want to use for the system time: YYYY MM DD, MM DD YYYY, or DD MM YYYY.
 - Time Format Select the time format that you want to use for the system time: 24-Hour or 12-Hour.
 - Date Separator Select the separator that you want to use for the system time: period (.), hyphen (-), or forward slash (/).
 - System Time Enter the system time and time zone, and then click Save.
- 3. Click **Apply** to save your settings.

To configure the Daylight Saving Time (DST) setting

- 1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow General \rightarrow Date&Time.
- 2. On the **Date&Time** tab, select the DST check box.
- 3. Specify when Daylight Saving Time begins and ends.
 - Since the specific dates change every year, select **Day of Week** as the **DST Type**.

- *b*. Set the **Start Time** as **Mar 2nd Su 02:00** (the second Sunday in March at 2:00 a.m.).
- د. Set the **End Time** as **Nov 1st Su 02:00** (the first Sunday in November at 2:00 a.m.).
- 4. Click **Apply** to save your settings.

To synchronize the system time with the Network Time Protocol (NTP)

- 1. Ensure that the DVR is connected to the Internet.
- 2. Go to Main Menu → Setting → System → General → Date&Time.
- 3. On the Date&Time tab, select the NTP check box.
- 4. In the Server IP box, enter the IP address of the NTP server that you want to use (for example, time.nist.gov).
- 5. Ensure that Port is set to 123.
- 6. To change the frequency with which the system time synchronizes with the NTP server, enter a new time in the Update Period box. The default setting is 60 min.
- 7. Click **Manual Update** to manually synchronize your system time with the NTP server.
- 8. Click **Apply** to save your settings.

Configuring Holiday Settings

To configure holiday settings

1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow General \rightarrow Holiday.



2. On the Holiday tab, click **Add a Holiday**. The Add a Holiday window appears.

Figure 12-3



Add Holidays	Honeywell
Holiday Name	
Repeat Mode O Once ● Always	
Holiday Range 🌘 Date 🔿 Week	
Start Time 2018 - 02 - 09	
End Time 2018 - 02 - 09	
📄 Add More	
	0
Add	Cancel

- 3. In the Holiday Name box, enter the name of the holiday that you want to add.
- 4. Set Repeat Mode to Once or Always.



- 5. Set Holiday Range to Date or Week depending on whether you want to designate a single day or one or more weeks as a holiday.
 - If **Date** is selected, enter the year, month, and day in the **Start Time** and **End Time** boxes.
 - If **Week** is selected, enter the year, month, week of the month (1st, 2nd, 3rd, 4th, Last), and day.
- 6. If you want to add more holidays, select the Add More check box.
- 7. Click **Add** to add the holiday.
- 8. After you have added the new holidays, on the Holiday Setup tab, set the Status of each holiday. Select Enable to enable the holiday or select Disable to disable it.

Configuring Display Settings

Configuring Display Settings

To configure the display settings

1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Display \rightarrow Display.

SETTING	Honeywell
🌄 CAMERA	77 NETWORK 🙀 EVENT SYSTEM
GENERAL	Display Tour Zero-Channel
DISPLAY	✓ Time Display
VIDEO MATRIX	✓ Channel Display
RS232	Original Rate
PTZ	IVS Rule Preview
ATM/POS	Transparency 0%
VOICE	Resolution 1920×1080
ACCOUNT	Video Spot
SECURITY	Preview Mode General I
AUTO MAINTAIN	
IMP/EXP	
DEFAULT	
UPGRADE	
	Default Save Cancel Apply

Figure 12-5

2. On the **Display** tab, configure the following settings:

•	Time Display	To display the current time in each channel window in live view mode, select the check box. To hide the time, clear the check box.
•	Channel Display	To display the camera name, status, and channel number in each channel window, select the check box. To hide the camera name, status, and channel number, clear the check box.
•	Original Rate	Check to display the image in its actual size/proportion.
•	Preview Enhancement	To enhance the display image, select the check box. To keep the default settings, clear the check box.
•	Transparency	Set the transparency of the graphical user interface (GUI) to a value between 0 and 100 , with 0 being totally opaque and 100 being totally transparent.
•	Resolution	Set the resolution of your display.
		Note You must restart the DVR for new display resolution settings to take effect.
•	Video Spot	Click to enable Video Spot on a secondary monitor, on which you can view video from selected cameras or inputs.
•	Preview Mode	Select Show Face List to see, on the right side of the Live View image, all of the snapshots taken as a result of face detection.

3. Click **Apply** to save your settings.

Configuring Tour Settings

In a tour, the DVR cycles through different channel views. You can specify which views and cameras you want to appear in the tour.

To configure a tour

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1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Display \rightarrow Tour.

Figure 12-6		
SETTING		Honeywel
N CAMERA	👼 NETWORK 🛛 🙀 EVENT	STORAGE SYSTEM
GENERAL	Display Tour Zero-Cha	nnel
DISPLAY	Enable 📄 Interval 5	sec.
VIDEO MATRIX	Video Detect View 1	w 1 IT
RS232	Window Split View 1	
PTZ		
ATM/POS		nannel Group
VOICE	2 🗸 2	
ACCOUNT	3 V 3 4 V 4	
SECURITY	5 1 5	
	6 V 6 7 V 7	
IMP/EXP	7 7 7	
UPGRADE		
UPGRADE	Add Modify Delete	Move up Move down
	Default	Save Cancel Apply
	Deladit	Save Cancel Apply

- 2. On the Tour tab, select the **Enable** check box to enable the tour function or clear the check box to disable the tour function.
- 3. In the **Interval** box, enter the amount of time in seconds that you want each view to appear on the screen. The default setting is 5 seconds.
- 4. Do one of the following:
 - To cycle through all of the cameras in all of the available views, keep the default settings.
 - To create a custom tour, for each view in the **Window Split** list (**View 1**, **View 4**, ...), clear the check box on the top row of the **Channel Group** list to deselect all of the cameras for that view, then select the cameras for each view that you want to appear in the tour.

For example, to create a tour showing only cameras 2, 3, and 5 in single-channel view, set **Window Split** to **View 1** and then select cameras **2**, **3**, and **5**. There should be no other cameras selected in View 1 or in any of the other views.

- 5. If you want, you can add or delete cameras from the Channel Group list. You can only add cameras that do not already appear in the list. On some DVR models you can change the Motion Tour Type and Alarm Tour Type from View 1 (single-channel view) to View 4 (four-channel view).
- 6. Click **Apply** to save your settings.

Configuring Zero-Channel Settings

The zero channel function lets you view several video sources on one channel in a web browser, saving bandwidth and improving upload speeds.

To configure zero channel encoding

1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Display \rightarrow Zero-Channel.

Figure 12-7							
SETTING							Honeywe
🗓 CAMERA		📆 EVENT		STORAGE	I	n System	N
GENERAL	Display	Tour	Zero-	Channel			
DISPLAY VIDEO MATRIX	Enable	•					
RS232	Compression	H.264	I v				
PTZ	Resolution	704*480(D1)	I v				
ATM/POS	Frame Rate(FPS)	30	I.				
VOICE	Bit Rate(Kb/S)	1024	I.				
ACCOUNT							
SECURITY							
AUTO MAINTAIN							
IMP/EXP							
DEFAULT							
UPGRADE							
	Default			Save		Cancel	Apply

2. On the Zero-Ch Encode tab, configure the following settings:

•	Enable	Select the check box to enable the zero-channel function or clear the check box to disable it.
•	Compression	Select the desired video compression standard from the list. The default setting is H.264.
•	Resolution	Select the desired video resolution from the list. The default setting is D1 .
•	Frame Rate (FPS)	Select a value between 1 and 30 (NTSC) or between 1 and 25 (PAL).
•	Bit Rate (Kb/S)	Select a value between 896 and 4096 . The default setting is 1024 .

- 3. Click **Apply** to save your settings.
- 4. Open a web browser, enter the DVR's remote access IP address in the browser's address field, and then log in.
- 5. Select Multi-Preview in the remote web client interface to display all of the DVR's video sources in one channel.

Configuring Video Matrix Settings

You can configure the matrix output channel, including the resolution and window split, and its interval.

To configure Video Matrix settings

1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Video Matrix.

Figure 12-8	3
SETTING	Honey
N CAMERA	📷 NETWORK 📷 EVENT 🔤 STORAGE 🗖 SYSTEM
GENERAL	Enable Interval 5
DISPLAY	Resolution 1280×720 I▼
VIDEO MATRIX	Window Split View 1
RS232	8 🗸 Channel Group
PTZ	1 🗸 1
ATM/POS	$\begin{array}{c c} 2 & \checkmark 2 \\ \hline 3 & \checkmark 3 \end{array}$
VOICE	4 🗸 4
ACCOUNT	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
SECURITY	$7 \sqrt{7}$
AUTO MAINTAIN	8 🗸 8
IMP/EXP	
DEFAULT	
UPGRADE	
	Add Modify Delete Move up Move down
	Default Save Cancel Apply

- 2. On the Video Matrix tab, configure the following settings:
 - Enable Select the check box to enable the zero-channel function or clear the check box to disable it.
 - Interval
 This is the interval the DVR waits before sending out email notifications after an event is detected. Enter a time between **0** and **1440** minutes. 0 means that there is no interval.
 - **Resolution** Select the desired video resolution from the list. The default setting is **D1**.
 - Window Split Select from the drop-down list. BNC supports only 1-split mode. HDMI supports 1/4/9/16-split mode.
- 3. Click **Add** to add a channel group.
- 4. Click **Apply** to save your settings.

Other Functions/Buttons

- **Modify** Double-click a channel or select a channel, then click **Modify** to change the current channel setup.
- Delete Click to remove a selected channel group.

Move Up - Click to move the current selected channel group up the list.

Move Down - Click to move the current selected channel group down the list.

Configuring RS232 Settings

To configure RS232 settings

1. Go to Main Menu → Setting → System → RS232.

Figure 12-9

SETTING				Honeywell
📆 CAMERA		To EVENT	STORAGE	SYSTEM
GENERAL DISPLAY VIDEO MATRIX RS232 PTZ ATM/POS VOICE ACCOUNT SECURITY	FunctionConsoleBaudrate115200Data Bits8Stop Bits1ParityNone			
AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Default		Save	Cancel Apply

2. Configure the following settings:

•	Function	Select Console , Adapter , or NetKeyboard , depending on the type of RS232 device that you have connected to the DVR.
•	Baudrate	Select a value between 1200 and 115200 . The default setting is 115200 .
•	Data Bits	Select a value between 5 and 8 . The default setting is 8 .
•	Stop Bits	Select 1 , 1.5 , or 2 . The default setting is 1 .
•	Parity	Select None, Odd, Even, Mark , or Null . The default setting is None .

3. Click **Apply** to save your settings.

Configuring Pan/Tilt/Zoom Settings

See Configuring PTZ Functions on page 34.

Configuring ATM/POS (Card Overlay) Settings

The ATM/POS (card overlay) settings allow the DVR to communicate with automated teller machines (ATMs) and point of sale (POS) machines in a retail environment.

Configuring COM Settings

To configure the COM settings

1. Go to Main Menu → Setting → System → ATM/POS → Com.

Figure 12-10

SETTING					Honeywell
👼 CAMERA	T NETWORK	To EVENT	STORAGE	SYSTEM	
GENERAL DISPLAY VIDEO MATRIX RS232 PTZ ATM/POS VOICE ACCOUNT SECURITY AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Com Current Sniffer M Protocol	Net Node is COM NONE I→ I ③ ④ ③ ④ ④ ⑤ ⑦ ③ S Preview ☑ Record			
			Save	Cancel /	Apply

- 2. On the Com tab, configure the following settings:
 - **Protocol** Select **None** or **POS**.
 - **Overlay Channel** Select a camera.
 - Overlay Mode The Preview and Record overlay modes are enabled by default. Clear the check boxes if you want to disable them.
 - Overlay Position
 Select Top Left, Bottom Left, Top Right, or Bottom
 Right.
- 3. Click **Apply**, and then click **Save** to save the settings.

Configuring Net Settings

You can configure the network settings with or without the ATM/POS protocol.

To configure the network settings with the ATM/POS protocol

1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Card Overlay \rightarrow Net.

Figure 12-11

SETTING						Honeywell
🗓 CAMERA		T EVENT	🧾 s	TORAGE	SYSTEM	
GENERAL	Com	Net				
DISPLAY VIDEO MATRIX	Protocol	ATM/POS	I -	Current Sniffe	er Mode is COM	
RS232	Overlay Mode	Preview	Record	Overlay Posi	tion Top Left	I.
PTZ	Data Group	Data Group1	1.			
ATM/POS	Source IP	0.0	. 0 . 0	Port 0		
VOICE	Destination IP	0.0	. 0 . 0	Port 0		
ACCOUNT	Record Channel		5678			
SECURITY	Frame ID1	StartPosition		Key		
AUTO MAINTAIN	Frame ID2	1	0		ata	
IMP/EXP	Frame ID3	1			ata	
DEFAULT	Frame ID4	1	0		ata	
UPGRADE	Frame ID5	1	0		ata	
	Frame ID6	1	0		ata	
				Save	Cancel	Apply

2. On the Net tab, configure the following settings:

•	Protocol	Select ATM/POS.
•	Overlay Mode	The Preview and Encode overlay modes are enabled by default. Clear the check boxes if you want to disable them.
•	Preview	When enabled, text overlay will be visible in the preview mode.
•	Record	When enabled, text overlay will be visible in the recording.
•	Overlay Position	Select Top Left, Bottom Left, Top Right, or Bottom Right .
•	Source IP/Port	Enter the source IP and port. The source IP refers to the host IP address that sends out the information.
•	Destination/Port	Enter the destination IP and port. The destination IP refers to the IP address of the device that receives the information.
•	Record Channel	Select a camera.
•	Frame ID	Configure up to 6 Frame IDs to ensure valid and legal information.
		Enter the StartPosition , Length , and Key . Click Data to enter Start Position , Length , and Title information for up to four fields, and then click Save .

3. Click **Apply**, and then click **Save** to save the settings.

To configure the network settings without the ATM/POS protocol

1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Card Overlay \rightarrow Net.

SETTING						
👼 CAMERA		TR EVENT	📴 s	TORAGE	SYSTEM	
GENERAL	Com	Net				
DISPLAY	Protocol	ATM/POS	I -	Current Sniff	er Mode is COM	
	Ourselau Marda	✓Preview	Record	Our dev Deve		
RS232	Overlay Mode			Overlay Pos	ition Top Left	I.
PTZ	Data Group	Data Group	1 1	_		
ATM/POS	Source IP	0.0	. 0 . 0	Port 0		
VOICE	Destination IP	0.0	. 0 . 0	Port 0		
ACCOUNT	Record Channel	StartPosition	95678	Кеү		
SECURITY	Frame ID1	1		<u> </u>	Data	
AUTO MAINTAIN	Frame ID2	1	0		Data	
IMP/EXP	Frame ID3	1	0		Data	
DEFAULT	Frame ID4	1	0		Data	
UPGRADE	Frame ID5	1			Data	
	Frame ID6	1			Data	
				Save	Cancel	Apply

- 2. On the **Net** tab, configure the following settings:
 - Protocol Select POS.
 - **Overlay Channel** Select a camera.
 - Overlay Mode The Preview and Encode overlay modes are enabled by default. Clear the check boxes if you want to disable them.
 - Overlay Position
 Select Top Left, Bottom Left, Top Right, or Bottom
 Right.
 - **Source IP/Port** Enter the source IP and port. The source IP refers to the host IP address that sends out the information.
 - **Destination/Port** Enter the destination IP and port. The destination IP refers to the IP address of the device that receives the information.
- 3. Click **Apply**, and then click **Save** to save the settings.

Configuring Voice Settings

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Figure 12-12

You can upload audio files that play when triggered by an event.

Configuring the Voice Files

In the File Manage tab, you can add audio files, listen to audio files, rename/delete audio files, and configure the audio volume.

To configure voice files

1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Voice \rightarrow File Manage.

Figure 12-1	3					
SETTING					Honeyv	vel
CAMERA		Tage EVENT	STORAGE	SYS"	TEM	
GENERAL DISPLAY	File Manage	Schedule	Size	Play Renar	me Delete	
VIDEO MATRIX RS232		ine	3128			
PTZ ATM/POS						
VOICE						
ACCOUNT SECURITY AUTO MAINTAIN						
IMP/EXP DEFAULT						
UPGRADE	VOICE : HDD M	ode		Volume		
					Add	

- Click **Add** to import an audio file from a USB device. 2.

Note

The audio file can either be saved to the HDD drive, or remain on the USB device. However, the USB will have to remain connected to the DVR. If the audio file is saved to the HDD, then it is not necessary to have the USB device connected at all times.

З. Click **Apply**, and then click **Save** to save the settings.

Configuring the Voice Schedule

To configure the voice schedule

1. Go to Main Menu → Setting → System → Voice → Schedule.

SETTING								Но	neywell
🗓 CAMERA	T NETWORK	NETWORK 📷 EVENT		STORAGE			SYSTEM		
GENERAL DISPLAY	File Manage	Schedule						A	
VIDEO MATRIX	Period	- 24 : 00	File Nam None		Interval	min.	Repeat 0	Output Mic	IT
RS232 PTZ	00:00	- 24 : 00 - 24 : 00	None None	۲ ۲		min. min.	0	Mic Mic	
ATM/POS VOICE	00:00	- 24 : 00	None	Ī	60	min.	0	Mic	
	00:00 00:00	- 24 : 00 - 24 : 00	None None	۲ ۲		min. min.	0	Mic Mic	
AUTO MAINTAIN IMP/EXP									
DEFAULT									
UPGRADE									
					Save		Cancel	ј 🗌 Арр	ly)

Figure 12-14

- 2. Select an audio file to the time period.
- 3. Configure the **Interval**, which is how long the audio file lasts.
- 4. Configure the **Repeat**, which is how many times the audio file repeats.
- 5. Click **Apply**, and then click **Save** to save the settings.

Configuring Account Settings

You can add, edit, or delete user accounts. By default, the DVR has an admin user account and a default user account. The admin user account has permission to perform all the operation and configuration functions of the DVR. The default user account only has permission to monitor live video.

Configuring Users

To add a user account

1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Account \rightarrow User.

SETTING						Hon	eywell
🇓 CAMERA	T NETWO	ORK 👼 EVENT	STOF	AGE	📑 🛃 s	YSTEM	
GENERAL DISPLAY VIDEO MATRIX RS232 PTZ ATM/POS VOICE ACCOUNT SECURITY AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	User 1 1 1 Add U	Group User Name admin	Group Name admin	Modify	Delete	Status Login Local	

Figure 12-15

2. On the **User** tab, click **Add User**. The Add User page opens.

Add User				Honeywell
User Name Password Memo Group admin Authority		Confirm Pas: User MAC	sword)
System	Playback	Monitor		
 ✓ AII ✓ ACCOUN ✓ STORAC ✓ SECURIT 	E 🗹 EVEN	r 🥃 NETWO	ORK 👿 CAME	AL CONT RA
			Sav	ve Cancel

Figure 12-16

- 3. On the **Add User** page, configure the following settings:
 - User Name Enter a user name for the account.
 - Password Enter a password for the account.
 - **Confirm Password** Re-enter the password.

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- Memo Optionally, enter a brief description of the account.
- User MAC Optionally, record the user's MAC address so that user can only log in on a specific device on the network. If this field is left blank, the user can log in on any connected device on the network.
- **Group** Assign the user to a group (**admin**, **user**, or another group that you have defined).
- Authority Assign privileges by selecting or clearing check boxes on the **System**, **Playback**, and **Monitor** tabs.

Note By default, the user group is set up to allow a new user to monitor live video from all cameras, play back recorded video from all cameras, control PTZ cameras, view information, manually control the DVR, back up files, and adjust color settings. To assign additional privileges, change the user settings on the Group tab.

4. Click **Save** to save your settings.

To edit a user account

- 1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Account \rightarrow User.
- 2. On the User tab, click the **Modify** icon of the user account that you want to edit. The Modify User page opens.
- 3. On the Modify User page, you can change any of the following settings:
 - Password
 - User Name
 - User Group
 - User MAC
 - Memo
 - Authority (System, Playback, Monitor)
- 4. When you have finished making changes, click **Save** to save your settings.

To delete a user account

- 1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Account \rightarrow User.
- 2. On the User tab, click the **Delete** icon of the user account that you want to delete.
- 3. The message "Are you sure that you want to remove this?" appears. Click **OK** to delete the account.

Note You can only delete an account that you have created. You cannot delete the admin and default user accounts.

Configuring Groups

To add a user group

1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Account \rightarrow Group.

Figure 12-17

SETTING									Honeywell
CAMERA	Ø	NETW	ORK		EVENT	<mark>ја</mark> стој	RAGE	SYSTEM	
GENERAL		Use	r	Grou	ıp				
DISPLAY		2	Group	o Name	Modify	Delete	Memo		
VIDEO MATRIX		1	admir	ו		×	administra		
RS232		2	user		/	×	user grou	р	
PTZ									
ATM/POS									
VOICE									
ACCOUNT									
SECURITY									
AUTO MAINTAIN									
IMP/EXP									
DEFAULT									
UPGRADE									
		Add Gr	oup						

- 2. On the Group tab, click **Add** Group.
- 3. On the Add Group page, enter a name for the group in the Group Name box, enter a description of the group in the Memo box, and then assign user permissions on the System, Playback, and Monitor tabs.
- 4. Click **Save** to save your settings.

To edit a user group

- 1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Account \rightarrow Group.
- 2. On the Group tab, click the **Modify** icon of the user group that you want to edit. The Modify Group page opens.
- 3. On the Modify Group page, you can change any of the following settings:
 - Group
 - Group Name
 - Memo
 - Authority (System, Playback, Monitor)
- 4. When you have finished making changes, click **Save** to save your settings.

To delete a user group

- 1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Account \rightarrow Group.
- 2. On the Group tab, click the **Delete** icon of the user group that you want to delete.
- 3. The message "Are you sure that you want to remove this?" appears. Click **OK** to delete the group.
Configuring Security

To enhance device network security and protect device data, please set the access right of the IP host (IP host here refers to the IP PC or the server). After you enabled trusted sites function, only the IP listed below can access current DVR.

If you enable blocked sites function, the following listed IP addresses cannot access current DVR.

- 1. Go to Main menu->Setting->System->Security.
- 2. Enter security interface. See the picture below.

SETTING			Honeywel
N CAMERA	📬 NETWORK 🛛 📷	EVENT STORA	IGE SYSTEM
GENERAL DISPLAY VIDEO MATRIX RS232 PTZ	Enable Type Trustee Start Address End Address MAC Address	l Sites I▼	Add IP Address Add IP Segment Add MAC address
ATM/POS VOICE ACCOUNT SECURITY AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Start Address	End Address	Edit Delete
	Default		ave Cancel Apply

Figure 12-18

- 3. Check the Enable box.
- 4. Select the trusted sites/block sites.
 - Enable trusted site function and then add the whitelist.
 - Enable blocked site function and then add the blacklist.
- 5. Set parameters.
 - Start address/end address: Select one type from the dropdown list, you can input IP address in the start address and end address. Now you can click **Add IP address** or Add IP section to add. System supports max 64 IP addresses.
 - a. For the newly added IP address, it is in enable status by default. Remove the $\sqrt{}$ before the item, and then current item is not in the list.
 - b. System max supports 64 items.

- d. System automatically removes space if there is any space before or after the newly added IP address.
- e. System only checks start address if you add IP address. System check start address and end address if you add IP section and the end address shall be larger than the start address.
- f. System may check newly added IP address exists or not. System does not add if input IP address does not exist.
 - Delete: Click it to remove specified item.
 - Edit: Click it to edit start address and end address. See *Figure 12-19*. System can check the IP address validity after the edit operation and implement IPv6 optimization.
 - Default: Click it to restore default setup. In this case, the trusted sites and blocked sites are both null.

Figure 12-19

Edit Honeywell
Start Address 192.168.0.2
End Address 192.168.0.100
OK Cancel

- 6. Click **Apply** or **Save** to complete setup.
 - If you enabled trusted sites, only the IP in the trusted sites list can access the device.
 - If you enabled blocked sites, the IP in the blocked sites cannot access the device.

Configuring Automatic Maintenance Settings

You can set up the DVR to automatically restart and/or to automatically delete old files.

To configure the auto-reboot function

1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Auto Maintain.

SETTING				Hor	leywell
CAMERA		Tevent	STORAGE	SYSTEM	
GENERAL DISPLAY VIDEO MATRIX RS232 PTZ ATM/POS VOICE ACCOUNT SECURITY AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Auto Reboot				
			Save	Cancel Appl	У

Figure 12-20

- 2. Under Auto-Reboot System, select one of the following options: Never, Everyday, Every Sunday, Every Monday, Every Tuesday, Every Wednesday, Every Thursday, Every Friday, or Every Saturday.
- 3. Click **Apply** to save your settings.

Exporting and Importing System Configurations

You can export and/or import DVR system configurations if you are installing several DVRs requiring the same setup.

To export a system configuration

- 1. Go to Main Menu → Setting → System → IMP/EXP.
- 2. Insert a USB storage device (such as a USB flash drive) into one of the USB ports on the DVR. The Find USB device dialog box opens.



Find	USB device			
	Name: Capacity:	sdc1(US 14.40 GB	B DISK) 1/14.43 GB(Free/To	tal)
	File Backup		Log Backup	
	Config Backu	p	System Upgrad	e

3. In the Find USB device dialog box, click **Config Backup**.

4. On the Config Backup page, click **Refresh**. The page populates with the details of the storage device.

SETTING					Honeywe
N CAMERA	📸 NETWORK	T EVENT	STORAGE	SYSTE	EM
GENERAL DISPLAY VIDEO MATRIX RS232	Device Name Total Space Address	sdb1(USB DISK) I • 6.96 GB	Refresh Free Space	(6.96 GB	
PTZ ATM/POS VOICE ACCOUNT SECURITY AUTO MAINTAIN IMP/EXP	Name			Size Type	Delete
DEFAULT UPGRADE	New Folder	Format Impor	t Export		

Figure 12-22

5. Click **Export**. A message appears confirming that the export was successful and the system configuration file (named Config_[YYYYMMDDhhmmss]) is added to the file list.

To import a system configuration

- 1. Insert a USB storage device containing a system configuration file (exported from another DVR) into one of the USB ports on the DVR. The Find USB device dialog box opens.
- 2. In the Find USB device dialog box, click **Config Backup**.
- 3. On the Config Backup page, click the configuration file that you want to import (named Config_[YYYYMMDDhhmmss]), and then click **Import**.
- 4. Restart the DVR to apply the new settings.

To format an external USB storage device

- 1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Config Backup.
- 2. Insert a USB storage device (such as a USB flash drive) into one of the USB ports on the DVR. The Find USB device dialog box opens.
- 3. In the Find USB device dialog box, click **Config Backup**.
- 4. On the Config Backup page, click **Refresh**. The page populates with the details of the storage device.
- 5. Click Format.
- 6. The message "Confirm format on the selected device?" appears. Click **OK** to format the storage device.

Restoring Default Settings

You can restore camera, network, event, storage, and system default settings.

NoteRestoring the default settings with cause all changes to the system menu color,
language, time display mode, video format, IP address, and user accounts to be
lost.

To restore default settings

1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Default.

Figure 12-23				
SETTING				Honeywell
CAMERA	7 NETWORK	EVENT	STORAGE	SYSTEM
GENERAL DISPLAY VIDEO MATRIX RS232 PTZ ATM/POS VOICE ACCOUNT SECURITY AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Select All CAMERA EVENT	etting entries that you w NETWORK STORAGE	ant to default.	
	Factory Default		Save	Cancel Apply

- 2. Select the check boxes of the items that you want to restore to their default settings, or select **All** to restore all of them to their default settings.
- 3. Click **Apply** to save your settings.

Upgrading the DVR

You can upgrade the system firmware locally at the DVR.

To upgrade the firmware

1. Go to Main Menu \rightarrow Setting \rightarrow System \rightarrow Upgrade.

SETTING	Hone	ywell
N CAMERA	TRANSPORT TRANSPORT	
GENERAL DISPLAY VIDEO MATRIX RS232 PTZ ATM/POS VOICE ACCOUNT SECURITY AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	UPGRADE If you need to upgrade system now.please insert USB upgrade disk,then press the start button to start upgrade.Don't shut down the power during upgrade! UPGRADE	

Figure 12-24

2. Insert a USB storage device (such as a USB flash drive) containing the new firmware into one of the USB ports on the DVR. The Find USB device dialog box opens.



- 3. In the Find USB device dialog box, click **System Upgrade**.
- 4. On the Upgrade page, click **Start**. The System Upgrade window opens.
- 5. Select the firmware file from the file list, and then click **Start**.

13. Viewing Information

This chapter contains the following sections:

- Viewing System Information, page 139
- Viewing Event Information, page 145
- Viewing Network Information, page 146
- Viewing Log Information, page 149

Viewing System Information

In the system information interface you can view HDD information, record information, bit stream statistics, and version details.

Viewing HDD Information

To view HDD information

1. Go to Main Menu \rightarrow Info \rightarrow System \rightarrow HDD Info.



2. Refer to the following table to interpret the HDD information:

SATA	 o indicates the current HDD is normal. x indicates there is an error. - indicates that there is no HDD. ? indicates that a HDD is damaged.
Туре	Indicates the HDD type (for example, Read/Write).
Total Space	Indicates the total capacity of the HDD.
Free Space	Indicates the amount of free space remaining on the HDD.
Status	Indicates the operating status of the HDD.
S.M.A.R.T.	Indicates S.M.A.R.T (Self-Monitoring, Analysis, and Reporting Technology) status.

3. In the list of HDDs, double-click an HDD to view more details.

Figure 13-2

Port	1					
Module	WDCWD10EURX-73FH1Y0					
Serial No.	. WD-WMC1U8912682					
Status	ОК					
Describe:						
Smart ID	Attribute	Threshold	Value	Worst	Status	▲
1	Read Error Rate	51	200	200	OK	
3	Spin Up Time	21	149	135	OK	
4	Start/Stop Count	0	100	100	OK	
5	Reallocated Sector Count	140	200	200	OK	
7	Seek Error Rate	0	200	200	OK	
9	Power On Hours Count	0	94	94	OK	
10	Spin-up Retry Count	0	100	253	OK	
11	Calibrate Retry Count	0	100	253	OK	
12	Power On/Off Count	0	100	100	OK	
192	Power-Off Retract Cycle	0	200	200	OK	
193	Load/Unload Cycle Count	0	200	200	OK	
194	Temperature	0	107	95	OK	
196	Reallocated Event Count	0	200	200	OK	
197	Current Pending Sector Count	0	200	200	OK	U
198	Off-line Scan Uncorrectable Count	0	100	253	OK	•
		-			I	

4. Right-click to return to the previous screen.

Viewing Recording Information

To view recording information

Go to Main Menu \rightarrow Info \rightarrow System \rightarrow Record Info.



			noneywen
SYSTEM		etwork 🚺 Log	
HDD RECORD REC ESTIMATE BPS	SATA 1 -		
CHANNEL INFO VERSION	All 2000-00-00 1	Start Time End Time 2:00:00AM 2000-00-00 12:00:00AM	

On the **Record Info** page, you can view the start and end times for recorded video.

Estimating Recording Time and Space

You can calculate the recording time based on the available HDD space, or you can calculate the HDD space you need for your recording time.

To estimate recording time

1. Go to Main Menu \rightarrow Info \rightarrow System \rightarrow REC ESTIMATE.

Figure 13-4

SYSTEM EVENT NETWORK LOG HDD RECORD V Channel Edit Bit Rate(Kb/S) Record Time Resolution V 1 1024 24 960*576(960H) V 2 4096 24 2560*1440(2560x1440) PPS V 3 2048 24 1280*720(720P) V 4 2048 1280*720(720P) V 4 1280*720(720P) V 1<	HDD ✓ Channel Edit Bit Rate(Kb/S) Record Time Resolution RECORD ✓ 1 1024 24 960'576(960H) ✓ 2 4096 24 2560'1440(2560×1440) ✓ 3 2048 24 1280'720(720P) BPS ✓ 4 2048 24 1280'720(720P)	INFO			Honeywell
RECORD V Channel Edit Bit Rate(Kb/S) Record Time Resolution REC ESTMATE V 1 1024 24 960*576(960H) V 3 2048 24 1280*720(720P) BPS V 4 2048 24 1280*720(720P) CHANNEL INFO VERSION VERSION GB Select Time Capacity 0 TB = 0 GB Select Time 0 Days Days Days Days	RECORD Channel Edit Bit Rate(Kb/S) Record Time Resolution REC ESTIMATE V 1 1024 24 960*576(960H) V 2 4096 24 2560*1440(2560×1440) V 3 2048 24 1280*720(720P) BPS V 4 2048 24 1280*720(720P)	SYSTEM		TWORK 🚺 LOG	
when you are calculating record period.	Known Space Known Time Capacity O TB = O GB Select Time Days Note: The record estimation data here is for reference only. Please be cautious	RECORD RECESTIMATE BPS CHANNEL INFO	✓ 1 ✓ 2 ✓ 3 ✓ 4 ✓ 4 ✓ Capacity 0 Time 0 Note: The record estimation	1024 24 4096 24 2048 24 2048 24 2048 24 Days Days	960°576(960H) 2560°1440(2560x1440) 1280°720(720P) 1280°720(720P)

2. Click in the Edit column. The Edit window appears.



Edit			Honeywell
Channel Resolution	1 2560*1440(2560		
Frame Rate Bit Rate	15 4096	I▼ (32 - 6144)Kb/S	
Record Time	24	h	
Сору		ОК	Cancel

- 3. Enter the Resolution, Frame Rate, Bit Stream, and Recording Time of the channel.
- 4. Click OK.
- 5. Click **Select** under Known Space tab to select a HDD. See the picture below:

INFO			Honeywell
SYSTEM	🗮 EVENT 🛛 🛃 NETWOR	RK 🌾 LOG	
HDD RECORD REC ESTIMATE BPS CHANNEL INFO VERSION	Channel Edit Bit Rate	96 24 96 24	
	OK Note: The record estimation data when you are calculating record		Please be cautious

Figure 13-6

The DVR calculates the recording time based on the channel setup and the HDD space.

To estimate recording space

1. On the Rec Estimate tab, click to select Known Time.

igure 13-7				
INFO				Honey
SYSTEM	📆 EVENT		🚺 LOG	
HDD RECORD REC ESTIMATE BPS CHANNEL INFO VERSION	✓ Channel ✓ 1 ✓ 2 ✓ 3 ✓ 4	Edit Bit Rate(Kb/S) 1024 4096 2048 2048 2048	Record Time 24 24 24 24 24	Resolution 960°576(960H) 2560°1440(2560×1440 1280°720(720P) 1280°720(720P)
	Known Spa Time 0 Capacity 0 Note: The rec	TR = 0 ord estimation data here is calculating record period.		

2. Enter how many days you want to record, and the DVR estimates how much HDD is needed.

Viewing Data Stream Information

To view data stream information

Go to Main Menu \rightarrow Info \rightarrow System \rightarrow BPS.

SYSTEM EVENT NETWORK LOG HDD Channel Kb/S Resolution Wave [] [] [] RECORD 1 82 960*576 [] [] [] REC ESTIMATE 2 91 2560*1440 [] [] BPS 3 0]_ [] [] CHANNEL INFO VERSION VERSION [] [] []	INFO			Honeyw
RECORD 1 82 960*576 [REC ESTIMATE 2 91 2560*1440 [BPS 3 0	SYSTEM	📆 EVENT 🛛 👼 NETWORK	🚺 LOG	
	RECORD REC ESTIMATE BPS CHANNEL INFO	1 82 960°576 2 91 2560°1440 3 0		

Figure 13-8

On the **BPS** page, you can view the current video data stream rates and resolutions for each channel.

Viewing Channel Information

To view channel information

Go to Main Menu \rightarrow Info \rightarrow System \rightarrow ChannelInfo.



INFO					Honeywell
SYSTEM	EVENT		🚺 LOG	1	
HDD RECORD RECESTIMATE BPS CHANNEL INFO VERSION	Channel 1 2	Format 			

On the Channel Info page, for each channel you can view the resolution and if the camera is working properly.

Viewing Version Information

To view version information

Go to Main Menu → Info → System → Version.

Figure 13-10

INFO				Honeywell
SYSTEM	🔂 EVENT	1	LOG	
HDD RECORD REC ESTIMATE BPS CHANNEL INFO VERSION	Device Model Record Channel Hardware Version System Version Build Date Web SN Onvil Server Version Onvil Client Version	(6)		

On the **Version** page, you can view the DVR model type, record channel, current hardware version, system version, build date, web, serial number and Onvif server version.

Viewing Event Information

To view event information

Go to Main Menu → Info → Event.



Figure 13-11



Viewing Network Information

In the network information interface you can view and/or block online users, view network data transmission details, and perform network tests.

Viewing Online Users

You can view the user name, IP address, and login time of all online users. You can also block an online user for a specified period of time.

To view online users

Go to Main Menu → Info → Network → Online Users.

INFO				Honeywell
SYSTEM	EVENT		LOG	
ONLINE USERS				
LOAD	User Name There is no onlin	IP	User Login Time	Block
TEST	There is no onlin			
	Black FO			
	Block 60	sec.		

Figure 13-12

Note Every five seconds, the DVR system detects newly added or dropped users, and updates the list of online users.

To block an online user

1. Go to Main Menu \rightarrow Info \rightarrow Network \rightarrow Online Users.

Info				Honeywell
SYSTEM	EVENT		🐚 LOG	
ONLINE USERS LOAD TEST	User Name admin	IP 192.168.1.123	LOG User Login Time 2014-11-18 13:13:45	Block for
	Block for 60	sec.		

Figure 13-13

2. Click the **Block for** icon in the user list, and then, in the **Block for** box at the bottom of the screen, enter the time in seconds that you want to block the user for. You can enter up to 65535 seconds (18.2 hours).

Viewing Network Load Information

To view network load information

Go to Main Menu \rightarrow Info \rightarrow Network \rightarrow Load.





On the **Load** page, you can view the network adapter name, MAC address, status (**Succeed** or **Failed**), device IP address, network type, the maximum transmission unit (MTU), send speed, and receive speed.

Viewing Network Test Information

To test the network

1. Go to Main Menu \rightarrow Info \rightarrow Network \rightarrow Test.

				Ho	neywell
EVENT	NETWO	ORK 🐚	LOG		
Destination IP Test Result		nb		g Test	
and the second se	2		Refresh		
Address	(Browse	
Name	IP	Sniffer Packe	nt Size	Sniffer Packet Backup	
	Network Te Destination IP Test Result Network Sr Device Name Address	Network Test Destination IP Test Result Network Sniffer Packet Back Device Name sda(USB DISK) Address (7	Network Test Destination IP Test Result Network Sniffer Packet Backup Device Name sda(USB DISK) Iv Address	Network Test Destination IP Test Result Network Sniffer Packet Backup Device Name sda(USB DISK) IV Refresh Address	EVENT Network Test Destination IP Test Result Network Sniffer Packet Backup Device Name sda(USB DISK) Iv Refresh Address Browse

2. On the Test page, under Network Test, enter a valid IPv4 address or domain name in the Destination Address box, and then click **Test**.

The test result displays the average delay and packet loss rate. It also indicates if the network status is **OK**, **Bad**, or **No Connection**.

To back up network packet data to an external USB storage device

- 1. Insert a USB storage device (such as a USB flash drive) into one of the USB ports on the DVR.
- 2. On the **Test** page, under **Network Sniffer Packet Backup**, click **Refresh**. The connected USB storage device should appear in the **Device Name** box.
- 3. If you want, click **Browse** to set the saving path.
- 4. In the network devices list, in the **Sniffer Packet Backup** column, click the green arrow button to start capturing the data. Click the button again to stop capturing the data.

Viewing Log Information

To view log information

1. Go to Main Menu \rightarrow Info \rightarrow Log.

INFO				Honeywell
SYSTEM	📆 EVENT		🚺 LOG	×
LOG	Type Start Time End Time	All I 2016 - 12 - 20 12 : 00 2016 - 12 - 21 12 : 00 2016 - 12 - 21 12 : 00 g Time Event	and the second	Details Search
		◀ 0/0	>	Go To 1 Page(s) Backup Clear

Figure 13-16

- 2. In the **Type** box, select a specific log type to view (**System, Config, Storage, Alarm, Record, Account, Clear, Playback**) or select All to view all logs.
- 3. In the **Start Time** and **End Time** boxes, enter the time period to search, and then click **Search**.

The search results are displayed in an ordered list. The DVR can save up to ${\bf 1024}$ log files.

4. To view more details about a log entry, click **Details**.

To back up log information to an external USB storage device

1. Insert a USB storage device (such as a USB flash drive) into one of the USB ports on the DVR. The Find USB device dialog box opens.

Figure 13-17

Find	USB device		Honeywell
	Name: 북 [*] Capacity:	sdc1(USB DISK) 14.40 GB/14.43 GB(Fre	ee/Total)
	File Backup	Log Bar p System Uj	

- 2. In the **Find USB device** dialog box, click **Log Backup**.
- 3. On the **Log** page, click **Backup**. The log file (FileLog.txt) is located in a folder named Log_[YYYYMMDDhhmmss] on your storage device.

14. Troubleshooting

The following section describes possible problems and solutions. Refer to these troubleshooting steps before calling Technical Support. If you still require assistance, call Honeywell Technical Support at 1-800-323-4576 (North America only) or send an e-mail to *https://www.honeywellsystems.com/ss/techsupp/index.html*.International contact information is listed on the back cover.

Problem: The DVR does not turn on.

- Check that the input voltage is correct.
- Check that the power cable is connected correctly to the DVR.
- Check that the power switch is in the ON position.
- Check that there is power at the outlet. Try connecting the DVR to another outlet or test the outlet with another device.
- Remove the housing and check that the hard drive cables are firmly connected.

Problem: The DVR automatically shuts down or stops running.

- Check that the DVR is receiving power and that the input voltage is correct and stable.
- Make sure that the working environment is within the specified temperature range and is free of dust.
- Remove the housing and check that the hard drive cables are firmly connected.

Problem: The DVR cannot detect the hard drive.

- Remove the housing and check that the hard drive cables are firmly connected.
- Inspect the hard drive and ribbon for damage. Replace if damaged.
- Inspect the main board SATA port for damage. Replace if damaged.

Problem: There is no picture on the monitor.

- Check that the correct input (VGA) is selected on the monitor.
- Turn off the monitor and DVR. Turn on the monitor, and then turn on the DVR.
- Check that the video cable is connected correctly to the DVR.
- Make sure that the camera's brightness setting is configured correctly. See *Configuring Camera Settings* on page 55.
- Make sure that a privacy mask is not blocking the video. See *Configuring Privacy Mask* Settings on page 64.

Problem: Color of live video is distorted.

• Make sure that the camera image settings are configured correctly. See *Configuring Camera Settings* on page 55.

• Make sure that the DVR is configured to use the correct video standard (NTSC or PAL). See *Configuring General System Settings* on page 115.

Problem: Cannot search local records.

• Check that recording is enabled. See *Configuring General Record Settings* on page 39.

Problem: There is no audio when viewing live video.

- Check the audio input and output connections on the DVR.
- Increase the volume on the headphones/speakers.

Problem: There is no audio when playing back video.

• Make sure that the audio is enabled in the playback interface and the volume is turned up.

Problem: The time display is incorrect.

- Make sure that the date and time settings are configured correctly. See *Configuring Date and Time Settings* on page 117.
- Replace the battery on the main board.

Problem: The DVR cannot control PTZ functions.

- Check that the PTZ camera is connected correctly to the video input and RS485 port of the DVR.
- Make sure that the DVR is configured correctly for PTZ operation. The protocol and address settings of the DVR must match the protocol and address settings of the PTZ camera. See *Configuring PTZ Functions* on page 34.

Problem: Motion detection does not work.

- Increase the motion detection sensitivity. It may be set too low. See *Configuring Motion Detection Settings* on page *85*.
- Make sure that the motion detection schedule is configured correctly. See *Configuring Motion Detection Settings* on page 85.
- Make sure that the motion detection zone setup is configured correctly. See *Configuring Motion Detection Settings* on page 85.

Problem: The network connection is unstable.

• Check that there is no IP address or MAC address conflict.

Problem: There is a USB backup error.

• Check that the USB storage device has sufficient space available.

Problem: Alarm signal cannot be disarmed.

- Make sure that the alarm settings are correctly configured.
- Check the alarm cable connections.

• Make sure that the DVR is running the latest firmware.

Problem: Alarm function is null.

- Make sure that the alarm settings are correctly configured.
- Check the alarm cable connections.
- Check that you have not connected two loops to one alarm device.

Problem: Cannot play a downloaded file.

- Use the player included on the software CD.
- Make sure that you have DirectX8.1 or greater installed on your computer.
- If you are using Windows XP, download the plug-ins DivX503Bundle.exe and ffdshow-20041012.exe.

A Installing Hard Drives

The appendix contains the following sections:

- Installing a Hard Drive, page 154
- List of Compatible SATA HDDs, page 155
- List of Compatible Portable HDDs, page 158

Installing a Hard Drive

On some HRHH DVR models, you can install an additional hard disk drive (HDD). For a list of compatible HDDs, see the *List of Compatible SATA HDDs* on page 155. A 7200 rpm or higher HDD is recommended.

CAUTION Risk of electric shock. Disconnect power before removing cover.

To install an additional HDD

- 1. If the DVR is connected to a power source, disconnect it before continuing.
- 2. Remove the top cover from the DVR housing by removing the four screws securing it to the housing and then sliding the cover backwards.
- 3. Connect the SATA and power cables to the new HDD.
- 4. Position the new HDD over the four open screw holes in the base of the housing, adjacent to the existing HDD.





- 5. Turn over the DVR housing and secure the new HDD to the housing using the four supplied HDD mounting screws.
- 6. Attach the HDD to housing with the four screws removed in step 4.
- 7. Replace the DVR top cover on the DVR housing



and secure it with the four screws removed in step 2.

List of Compatible SATA HDDs

Note	Upgrade the DVR firmware to the latest version to ensure the accuracy of the table below.					
Manufacturer	Series	Model	Capacity			
Seagate	Seagate SV35.1	ST3250824SV	250 GB			
Seagate	Seagate SV35.1	ST3500641SV	500 GB			
Seagate	Seagate SV35.2	ST3250820SV	250 GB			
Seagate	Seagate SV35.2	ST3320620SV	320 GB			
Seagate	Seagate SV35.2	ST3500630SV	500 GB			
Seagate	Seagate SV35.2	ST3750640SV	750 GB			
Seagate	Seagate SV35.3	ST3250310SV	250 GB			
Seagate	Seagate SV35.3	ST3500320SV	500 GB			
Seagate	Seagate SV35.3	ST3750330SV	750 GB			
Seagate	Seagate SV35.3	ST31000340SV	1 TB			
Seagate	Seagate SV35.4	ST3320410SV	320 GB			
Seagate	Seagate SV35.4	ST3250311SV	250 GB			
Seagate	Seagate SV35.5	ST3500410SV	500 GB			
Seagate	Seagate SV35.5	ST3500411SV	500 GB			
Seagate	Seagate SV35.5	ST31000525SV	1 TB			
Seagate	Seagate SV35.5	ST31000526SV	1 TB			
Seagate	Seagate SV35.5	ST1000VX003	1 TB			
Seagate	Seagate SV35.5	ST2000VX003	2 TB			
Seagate	Seagate SV35.5	ST2000VX002	2 TB			

Seagate	Seagate SV35.5	ST2000VX000	2 TB
Seagate	Seagate SV35.5	ST3000VX000	3 TB
Seagate	Seagate Pipeline HD	ST3320410CS	320 GB
Seagate	Seagate Pipeline HD	ST3320310CS	320 GB
Seagate	Seagate Pipeline HD	ST3500422CS	500 GB
Seagate	Seagate Pipeline HD	ST3500321CS	500 GB
Seagate	Seagate Pipeline HD2	ST3250412CS	250 GB
Seagate	Seagate Pipeline HD2	ST3320311CS	250 GB
Seagate	Seagate Pipeline HD2	ST3500414CS	500 GB
Seagate	Seagate Pipeline HD2	ST3500312CS	500 GB
	-	ST31000424CS	1 TB
Seagate	Seagate Pipeline HD2		
Seagate	Seagate Pipeline HD2	ST31000322CS	1 TB
Seagate	Seagate Pipeline HD2	ST1000VM002	1 TB
Seagate	Seagate Pipeline HD2	ST1500VM002	1 TB
Seagate	Seagate Pipeline HD2	ST2000VM002	2 TB
Seagate	Seagate Pipeline HD2	ST2000VM003	2 TB
Seagate	Seagate Constellation ES	ST3500514NS	500 GB
Seagate	Seagate Constellation ES	ST31000524NS	1 TB
Seagate	Seagate Constellation ES	ST32000644NS	2 TB
Seagate	Seagate Constellation ES	ST2000NM0011	2 TB
Seagate	Seagate Constellation ES	ST1000MN0011	1 TB
Seagate	Seagate Constellation ES	ST500NM0011	500 GB
Seadate	Seagate Constellation ES	ST2000NM0031	2 TB
Seagate	Seagate Constellation ES	ST1000NM0031	1 TB
Seagate	Seagate Constellation ES	ST500NM0031	500 GB
Seagate	Seagate Constellation ES	ST2000NM0051	2 TB
Seagate	Seagate Constellation ES	ST1000NM0051	1 TB
Seagate	Seagate Constellation ES	ST500NM0051	500 GB
Seagate	Seagate Constellation ES2	ST33000650NS	3 TB
Seagate	Seagate Constellation ES2	ST32000645NS	2 TB

Seagate	Seagate Constellation ES2	ST33000651NS	3 TB
Seagate	Seagate Constellation ES2	ST32000646NS	2 TB
Seagate	Seagate Constellation ES2	ST33000652NS	3 TB
Seagate	Seagate Constellation ES2	ST32000647NS	2 TB
Western Digital	Cariar SE	WD3200JD	320 GB
Western Digital	Cariar SE	WD3000JD	300 GB
Western Digital	Cariar SE	WD2500JD	250 GB
Western Digital	Cariar SE16	WD7500KS	750 GB
Western Digital	Cariar SE16	WD5000KS	500 GB
<u>Western Digital</u>	Cariar SE16	WD4000KS	400 GB
Western Digital	Cariar SE16	WD3200KS	320 GB
Western Digital	Cariar SE16	WD2500KS	250 GB
<u>Western Digital</u>	WD Caviar SE16	WD2500YS-01SHB0	250 GB
Western Digital	WD Caviar RE16	WD3200YS-01PGB0	320 GB
Western Digital	WD Caviar RE2	WD5000YS-01MPB0	500 GB
<u>Western Digital</u>	WD AV-AVJS	WD2500AVJS-63WDA0	250 GB
<u>Western Digital</u>	WD AV-AVJS	WD3200AVJS-63WDA0	320 GB
Western Digital	WD AV-AVJS	WD5000AVJS-63YJA0	500 GB
Western Digital	WDAV-GP-AVCS	WD5000AVCS-63H1B1	500 GB
Western Digital	WDAV-GP-AVCS	WD7500AVCS-63ZLB0	750 GB
Western Digital	WDAV-GP-AVCS	WD3200AVCS	320 GB
Western Digital	WDAV-GP-AVCS	WD2500AVCS	250 GB
Western Digital	WDAV-GP-EVCS	WD10EVCS-63ZLB0	1 TB
Western Digital	WDAV-GP-EVCS	WD20EVCS-63ZLB0	2 TB
<u>Western Digital</u>	WDAV-GP-AVVS	WD3200AVVS-63L2B0	320 GB
Western Digital	WDAV-GP-AVVS	WD5000AVVS-63ZWB0	500 GB
<u>Western Digital</u>	WDAV-GP-AVVS	WD7500AVVS-63E1B1	750 GB
Western Digital	WDAV-GP-EVVS	WD10EVVS-63E1B1	1 TB
Western Digital	WDAV-GP-EVDS	WD10EVDS-63N5B1	1 TB
Western Digital	WDAV-GP-EVDS	WD15EVDS-63V9B0	1.5 TB
Western Digital	WDAV-GP-EVDS	WD20EVDS-63T3B0	2 TB
Western Digital	WDAV-GP-AVDS	WD5000AVDS-63U7B0	500 GB
Western Digital	WD AV-GP	WD30EURS	3 TB
Western Digital	WD AV-GP	WD25EURS	2.5 TB
Western Digital	WD AV-GP	WD20EURS	2 TB
Western Digital	WD AV-GP	WD15EURS	1.5 TB
<u>Western Digital</u>	WD AV-GP	WD10EURS	1 TB

Western Digital	WD AV-GP	WD10EURX	1 TB
Western Digital	WD AV-GP	WD7500AURS	750 GB
Western Digital	WD AV-GP	WD7500AVDS	500 GB
Western Digital	WD AV-GP	WD500AVDS	500 GB
Western Digital	WD AV-GP	WD10EUCX	1 TB
Samsung	Samsung-HA	HA500LJ/CE	500 GB
Samsung	Samsung-HA	HA751LJ	750 GB
Samsung	Samsung-HA	HA101UJ/CE	1 TB
Samsung	Samsung-HD	HD502HI/CEC	500 GB
Samsung	Samsung-HD	HD103SI/CEC	1 TB
Samsung	Samsung-HD	HD154UI/CE	1.5 TB
Hitachi	HitachiCinemaStar™ 5K500	HCP725050GLA380	500 GB
Hitachi	HitachiCinemaStar™ 7K1000	.BHCT721050SLA360	500 GB
Hitachi	HitachiCinemaStar™ 7K1000.BHCT721075SLA360		750 GB
Hitachi	HitachiCinemaStar™ 7K1000.BHCT721010SLA360		1 TB
Maxtor	DiamondMax 20	STM3320820AS	320 GB
Maxtor	DiamondMax 20	STM3250820AS	250 GB

List of Compatible Portable HDDs

Manufacturer	Model	Capacity
YDStar	YDStar HDD box	40 GB
Netac	Netac	80 GB
lomega	lomega RPHD-CG" RNAJ50U287	250 GB
WD Elements	WCAVY1205901	1.5 TB
Newsmy	Liangjian	320 GB
WD Elements	WDBAAR5000ABK-00	500 GB
WD Elements	WDBAAU0015HBK-00	1.5 TB
Seagate	FreeAgent Go (ST905003F)	500 GB
Aigo	H8169	500 GB

B MAXPRO[®] Cloud

This appendix contains the following section:

• Configuring for MAXPRO Cloud Mode on page 159

Configuring for MAXPRO Cloud Mode

These cloud-ready devices can be standalone devices or can easily be connected to Honeywell's MAXPRO Cloud platform to create a fully integrated managed cloud solution. When used in MAXPRO Cloud mode, this device becomes a MAXPRO Cloud appliance that creates a secure connection to the cloud, and has the ability to stream high quality video while managing bandwidth. Critical events can be captured locally at higher resolution and frame rates, and then also stored in the cloud for safe and secure backup.

The MAXPRO Cloud solution provides the following additional added value for customers and dealers:

- Access on the go. View live or recorded video anytime anywhere on your PC, MAC, laptop, or mobile device.
- Ease of remote management, configuration and changes, f/w updates, and increase managed services from a singlelogin.
- Real-time informative notifications with clip links and alerts for health, status, and critical events.
- Verification of site alarms, and reduction of false alarm costs and call outs.
- Adding cloud storage on thego.

Note A MAXPRO Cloud service subscription is required. Please contact Honeywell Customer Service for details. See the back cover for contact information.

To switch to MAXPRO Cloud mode:

1. Go to Main Menu > Operate, then click MAXPROCLOUD.



Figure B-1 Selecting MAXPRO CLOUD

A confirmation message appears.

Figure B-2 MAXPRO Cloud Configuration Confirmation Message



2. Click **OK** to confirm that you want to switch to MAXPRO Cloud mode. The NVR restarts and opens in MAXPRO Cloud mode.

Note For information about operating in MAXPRO Cloud mode, please Contact Honeywell Customer Service.

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