

Digital Video Recorder User Manual

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Welcome

Thank you for purchasing an Amcrest DVR!

This user manual is designed to be a reference tool for the installation and operation of your DVR system.

Here you can find information about the DVR's features and functions, as well as information to aid in troubleshooting.

Many of the setup and installation sections below have corresponding videos on YouTube



To access the setup videos, please go to http://amcrest.com/videos

For access support articles, please go to http://amcrest.com/support

NOTE: This user manual is applicable to all 4, 8, 16 channel Amcerst DVRs, Including S3, S4, and S5 models.

Important Security Warning

To keep your Amcrest camera secure and prevent unauthorized access, please make sure to follow the steps below:



• Always make sure that your camera has the latest firmware as listed on https://amcrest.com/firmwaredownloads

• Never use the default password for your camera. Always ensure that your password is at least 8-10 characters long and contains a combination of lowercase characters, uppercase characters as well as numbers.

For access to the quick start guide and other support information, go to http://amcrest.com/support

To contact Amcrest support, please do one of the following:

Visit <u>http://amcrest.com/contacts</u> and use the email form Call Amcrest Support using one of the following numbers: Toll Free: (888) 212-7538 International Callers (Outside of US): +1-713-893-8956 USA: 888-212-7538 Canada: 437-888-0177 UK: 203-769-2757 Email Amcrest Customer Support <u>support@amcrest.com</u>

Important Safeguards and Warnings

1. Electrical Safety

All installation and operation should conform to your local electrical safety codes. The product must be grounded to reduce the risk of electric shock. We assume no liability or responsibility for any fires or electrical shock caused by improper handling or installation.

2. Transportation Security



Heavy stress, violent vibrations, and excess moisture should not occur during transportation, storage, and installation of the device.

3. Installation

Handle the device with care. Keep the device right side up. Do not apply power to the DVR before completing installation. **Do not place objects on top of the DVR.**

4. Repair Professionals

All the examination and repair work should be done by qualified service engineers. We are not liable for any problems caused by unauthorized modifications or user-attempted repair.

5. Environment

The DVR should be installed and kept in a cool, dry place away from direct sunlight, flammable materials, explosive substances, etc.

This product should be transported, stored, and used only in the specified environments as stated above.

6. Accessories

Be sure to use only the accessories recommended by manufacturer. Before installation, please open the package and check to ensure that all the components are present. Contact the retailer that you purchased from, or Amcrest directly if anything is broken or missing in the package.

NOTE: This user manual is applicable to all 4, 8 and 16 channel Amcerst DVRs, Including S3, S4 and S5 models.

Features and Specification

Overview

Amcrest DVRs are an excellent digital surveillance too designed to increase the security of your everyday life. Our DVR use a Linux based OS to maintain reliable operation. It's easy to use and can be set up in a relatively small amount of time. It has various functions such as recording, playback, and monitoring functionality and it synchronizes audio and video by default.

Our DVR adopt a high-quality design to achieve high levels of reliability and security and can be configured to work locally, as well as on a network. With the use of its built-in tools and OS, this device can also help monitor and track network usage.

By using industry standard cables and tribrid functionality, our DVRs can be used with a variety of different cameras (Analog, HDCVI, or IP) and can work with most standard security system cable setups. This product can be used in a variety of locations such as banks, residential neighborhoods or homes, factories, warehouses, transportation (trucking), and more.

Features

The Amcrest DVRs has the following features:

Real-time Monitoring

Our DVRs provide an analog output port, VGA port, and an HDMI port. You can use a variety of monitors to display the DVR's interface, and the DVR can support VGA and HDMI output at the same time.



Storage Functionality

The DVR can record multiple video and audio streams to the built-in hard drive to allow for playback of any recorded media.

Compression Format

By utilizing advanced compression, the DVR can support multiple channels of audio and video, decoding audio and video from each channel to maintain video and audio synchronization.

Backup Function

The DVR supports backup of recorded media and settings via the USB port or an internal HDD.

Advanced Playback Function

Our DVRs support independent real-time recording for each channel and can support search, fast forwarded playback, recorded searches, and downloading of videos and screenshots. The DVR can also playback in slow motion, backwards, and frame by frame as needed. When recording, the DVR shows a date/time overlay to ensure accurate viewing of events when they occurred. Lastly, the DVR can support video enlargement of certain zones within a stream.

Network Operation

Our DVRs have built-in tools to allow for remote network real-time monitoring, remote recording of searches, and remote PTZ control.

Advanced Network Protocol Support

The DVR is UPnP compatible, and includes functionality for use with PPPoE, and DDNS protocols to allow remote and local connection with a large variety of network hardware.

Note: There may be slight differences in functionality due to the existence of different product series.

Overview and Controls

This section provides information about the physical design and controls for your DVR. Please refer to the diagrams below to become acquainted with the DVR and its physical features. Each category is based on specific model DVRs, please locate the model number associated with your DVR from the list for more details.

Front Panel

Models

AMDVTENL16/AMDVTENL8/AMDVTENL4/AMDV10818/AMDV10814/AMDV72116/AMDV7218/S5 Models.



Please refer to the following chart for information on the front panel buttons:



SN	lcon	Name	Function
1	PWR	Power indicator	When DVR is on, this light remains on.
2	NET	Network abnormality indicator light	When a network error occurs or there is no network connection, this light turns red.
3	HDD	HDD abnormal indicator light	When an HDD error occurs, or the HDD capacity is below the specified threshold value, this light turns red.
4	م ۍ	USB 2.0 port	USB 2.0 port: connect a mouse, USB storage device, etc.

Models

AMDV4M4/AMDV4M8/AMDV4M16/AMDV7204/AMDV7208/AMDV72016/AMDV10804/AMDV10808/AMDV10801 6





Please refer to the following chart for information on the front panel buttons

#	lcon	Name	Function(s)
1	دي .	USB 2.0 port	USB 2.0 port: connect a mouse, USB storage device, etc.
2	ALARM	Alarm status indicator light	When an alarm event occurs, this LED becomes blue to alert you.
3	REC	Recording status indicator light	When the DVR is recording footage to the hard drive, this LED will become blue to alert you.
4	HDD	HDD status indicator light	When an HDD error occurs, or the HDD capacity is below the specified threshold, this LED becomes blue to alert you.
5	NET	Network status indicator light	When a network error occurs or there is no network connection, this LED becomes blue to alert you.



6	ACT	ENTER	Confirms the current operation.
7	POWER	Power status indicator light	When the DVR is powered on, this LED will remain blue.
8	Ċ	Power button	Press and hold the power button for 3 seconds to boot up or shut down the DVR.
9	▲ / ▼	Up/Down	Activates current controls, modifies settings, and allows navigating up and down through options.
			Increases/Decreases numerals.
			Assists in functions such as PTZ menu.
10		Left/Right	Shifts current activated controls.
			When in playback, use these buttons to control the playback bar.
11	ENTER	Enter	Confirms the current operation.
			Goes to the default button.
			Goes to the menu.
12	ESC	Escape	Go to the previous menu or cancel the current operation.
			When in playback, push ESC to restore real-time monitoring.
13	Fn	Assist	In one-window monitoring, push this button to display additional
			functions such as PTZ control and image color.
			Backspace function: in numeric/text control, press Fn for 1.5
			In motion detection setup, use the Fn button and directional keys to adjust the settings.
			In text mode, push Fn to switch between numeric and English characters (small/capitalized), etc.
			Activates other special functions.



Rear Panel



Note: This is for example purposes only, the diagram represents a 16 Channel system, however, is applicable to all units provided in the description.

Please refer to the following chart for detailed information on the rear panel ports:

SN	lcon	Name	Note
1	A	RS485 (RS-485) communication port	RS485_A port. It is the cable A. You can connect to the control devices such as speed dome PTZ.
	В		RS485_B.It is the cable B. You can connect to the control devices such as speed dome PTZ.
2	DC 12V	Power Input port	Input 12V DC.
3	<u>6</u> 6	Network port	100M Ethernet port
4	VGA	VGA video output port	VGA video output port. Output analog video signal. Can connect to the monitor to view analog video output.
5	VIDEO IN	Video input port	Connect to analog camera, video input signal.
6	Audio OUT	Audio output port	Connect to video output device such as sound box.
7	Audio IN	Audio input port	Connect to audio input device such as microphone.
8	HDMI	High definition media interface	High definition audio and video signal output port. It transmits uncompressed high definition video and multiple-channel data to the HDMI port of the display device.



9	•	USB 2.0 port	Connect to USB storage device, mouse, burning DVD-ROM etc.
10	-lu	GND	Ground end.

General 720p/1080p 32-Channel System

The 32-channel system rear panel is as shown below:



Please refer to the following table for detailed information:

SN	lcon	Name	Function
1	MIC IN	Bidirectional talk input port	Input bidirectional talk analog signal from microphone, pick up.
2	MIC OUT	Bidirectional talk output port	Output bidirectional talk analog signal to sound box, etc. Bidirectional talk output. Audio output of single window monitor mode. Audio output of single window playback mode.



3	VIDEO OUT	Video output port	Connect to output devices such as TV.
4	AUDIO OUT	Audio output port	Connect to sound box etc. to output audio signal.
5	AUDIO IN	Audio input port	Connect to microphone etc. to input audio signal.
6	VIDEO IN	Video input port	Connect to analog camera to input video signal.
7	1~16	Alarm input port 1 \sim 16	There are four groups. The first group is from port 1 to port 4, the second group is from port 5 to port 8, the third group is from port9 to port 12, the fourth group is from port13 to port 16. They are to receive the signal from the external alarm source. There are two types; (normal open)/NC (normal close). When your alarm input device is using external power, please make sure the device and the NVR have the same ground.

SN	lcon	Name	Function
	NO1~NO5	Alarm output port 1 \sim 5	5 groups of alarm output ports. (Group 1: port NO1~C1,Group 2:port NO2~C2,Group 3:port NO3~C3. 4:port NO4~ C4. 5:port NO5~ C5.).Output alarm signal to the alarm device. Please make sure
	C1~C5		alarm device.
	NC5		NO:Normal open alarm output port. NC:Normal close alarm output port. C:Alarm output public end.
	A	RS485 communication port	RS485_A port. It is the cable A. You can connect to the control devices such as speed dome PTZ.



	В		RS485_B.It is the cable B. You can connect to the control devices such as speed dome PTZ.
	T+、T-、R+、R-	Four-cable full-duplex 485 port.	T+, T-: Send out cable. R+, R-: Input cable.
	CTRL 12V	Control power output	Turn off power output when the alarm is cancelled.
8	676	Network port	1000M Ethernet port
9	RS-232	RS232 debug port	It is for general COM debug to configure IP address or transfer transparent COM data.
10	VGA	VGA video output port	VGA video output port. Output analog video signal. It can connect to the monitor to view analog video.
11	eSATA	eSATA port	External SATA port. It can connect to the device of the SATA port.
12	•4	USB2.0 port	Connect to mouse, USB storage media, USB-burner and etc.
13	HDMI2	High definition media interface 2	HD video matrix output. Support zero-channel
SN	lcon	Name	Function
			encoding matrix output. Support tour.
14	HDMI1	High definition media interface 1	High definition audio and video signal output port. It transmits the same video signal as the VGA/TV. Support mouse operation.
15		Power socket and power switch	Power input port/power on/off button.



Mouse Control

The following table details the different uses for a computer mouse regarding the DVR's controls.

Left click	System pops up password input dialogue box if you have not logged in. In real-time				
mouse	monitor mode, you can go to the main menu.				
	When you have selected one menu item, left click mouse to view menu content.				
	Implement the control operation.				
	Modify checkbox or motion detection status.				
	Click combo box to pop up drop down list				
	In the input box, you can select input methods. Left click the corresponding button on the panel and you can input numeral/English character (small/capitalized). Here, \leftarrow stands for backspace button stands for the space button.				
	In English input mode: _ stands for input a backspace icon and \leftarrow stands for deleting the previous character.				
	! ? @ # \$ % ^ & * ← 1 2 3				
	qwertyuiop/ 456				
	asd fghjkl: Enter 789				
	$z \times c \vee b n m$, . Shift $\Box 0 \leftarrow$				
Double left	Implement special control operation such as double click one item in the file list to				
click mouse	playback the video.				
	In multiple-window mode, double left click one channel to view in full-window.				
Pight click	In real-time monitor mode, nons un shortcut menu: one-window, four-window				
mouse	in real-time monitor mode, pops up snortcut menu: one-window, four-window, ninewindow and sixteen-window, Pan/Tilt/Zoom, color setting, search, record, alarm input, alarm output, main menu. Among which Pan/Tilt/Zoom and color setting applies for current selected channel. If you are in multiple-window mode, system automatically switches to the corresponding channel.				
View 4 ► View 8					
	📅 Pan/Tilt/Zoom				
	Q Search				
	Exit current menu without saving the modification.				
	In numeral input box: Increase or decrease numeral value.				



Press middle	Switch the items in the check box.
button	Page up or page down
Move mouse	Select current control or move control
Drag mouse	Select motion detection zone
	Select privacy mask zone.

Connection and Installation

Check Hardware

When you receive the system, unpack it, and check all sides of the DVR to see if there is any damage to the unit. The protective materials used for the packaging of the DVR can protect most accidental damage during transportation, but to ensure that your equipment is operating as expected, it is recommended to inspect the product before proceeding further.

On the DVR unit, please verify that the label on the bottom of the DVR is not damaged. The serial number of the unit is often needed to provide support or for other useful information.

Please check that all required items for your DVR are present and accounted for in the package. To check what is included with your purchase, go to <u>https://amcrest.com/security-camera-systems/security-dvrs.html</u> and find the product you purchased. Once you have found your product, scroll down and click on the "What's Included" tab. If any item is missing, please contact us as soon as possible so we can send any missing components if necessary.

Hard Drive Installation

A hard drive allows you to configure and use the recording functionality of this DVR, including playing back previously recorded footage.

Note: This section *only* applies to HDCVI DVRs purchased without a hard drive already pre-installed. Most 'kits' or 'bundles' will come with a pre-installed hard drive.

The DVR has connections for only 1 hard drive inside the case and the hard drive must be no bigger than 6TB (Terabytes).

To install your hard drive, the following is needed:

- A medium sized (regular) Phillips-head screwdriver not included
- A hard drive not included (unless you purchased a 'kit' that **does** have one included)
- Four hard drive fastening screws included

Note: Before installing the hard drive, make sure the DVR is powered off with the power cable disconnected.







Connection Port Information

Note: This section may not be applicable to ALL model DVRs.

Power Supply Connection

Please check to make sure the input voltage is correct, and the power button is in the off position when connecting the power supply.

We recommend you use an Uninterruptible Power Supply (UPS) to guarantee steady operation of the DVR, as well as to elongate the life span of the DVR and other peripheral equipment such as attached cameras and other accessories.

Video Input/Output Connections

The video input interface is BNC.

The input video format includes: PAL/NTSC BNC (1.0VBP- P, B75Ω)

The video signal should comply with your national standards.



The input video signal should have high SNR, low distortion; low interference, natural color and suitable brightness. To guarantee the stability and reliability of the camera signal, the camera should be installed in a cool, dry place away from direct sunlight, flammable materials, explosive substances, etc.

The camera and the DVR should have the same grounding to ensure the normal operation of the camera. Guarantee stability and reliability of the transmission line

Please use high quality, well shielded BNC cable. Please select suitable BNC model according to the transmission distance.

If the distance is too long, you should use twisted pair cable. You can add video compensation devices or use optical fiber to ensure video quality.

You should keep the video signal away from the strong electromagnetic interference, especially power lines.

Keep connection lugs closely contacted.

The signal line and shielded wire should be fixed firmly and in well connection. Avoid dry joint, lap welding, and oxidation.

Video Output Connection Information

Video output includes a BNC (PAL/NTSC1.0VP-P, 75Ω) output, a VGA output, and a HDMI output. The system supports BNC, VGA and HDMI output at the same time.

When you are using pc monitor, please pay attention to the following points:

- To defer aging, do not allow the pc monitor to run for a long time.
- Regular demagnetization will keep your device in proper working condition.
- Keep it away from strong electromagnetic interference devices.

Using a TV as video output device is not a reliable substitution method. When using a TV as a video output device, it is advised to turn off the TV from time to time to ensure its longevity. The use of a low-quality TV may result in the damage of the device.

Audio Input/Output Connections

The DVR audio input ports uses a BNC type connection. Due to high impedance of audio input, please use an active sound microphone to get the best audio quality.

Audio transmission is similar to video transmission. Try to avoid interference, look out for dry joints, loose contacts, and keep the audio devices and cables away from power lines.

Audio Output Connection Information

The audio output signal parameter is usually over 200mv $1K\Omega$ (BNC or RCA).

It can directly connect to a low impedance earphone, active speaker, or amplifier-drive audio output device.

If the speaker and the microphone cannot be separated spatially, it may create a feedback loop. In this case you can adopt the following measures:



- Use a better directional microphone.
- Reduce the volume of the speaker.
- Using more sound-absorbing materials in the surrounding area can reduce voice echo and improve the acoustic environment.

Adjust the layout of the audio output cables to reduce the occurrence of a feedback loop.

Alarm Input/Output Connections

Please read the following before connecting any alarm devices. Please note, this information is <u>only</u> applicable to DVRs that provide an alarm connection on the device.

- a. Please make sure the alarm input mode is grounded.
- b. A grounding signal is needed for alarm input.
- c. Alarm input uses a low-level voltage signal.
- d. Alarm input mode can be either NO (Normal Open) or NC (Normal Close).
- e. When you are connecting two DVRs, or one DVR and one other device, please use a relay to separate them.
 The alarm output port should not be connected to a high-power load directly (The power load should be less than 1 amp) to avoid high current which may result in relay damage.

Connecting a PTZ Decoder

- a. Ensure that the decoder has the same grounding with the DVR, otherwise you may not be able to control the PTZ. Shielded twisted wire is recommended and the shielded layer is used to connect to the ground.
- b. Avoid high voltage. Ensure proper wiring and take some thunder protection measures.
- c. For signal wires that are too long, 120Ω should be connected in parallel between A, B lines on the far end to reduce reflection and guarantee the signal quality.
- d. "485 A, B" of DVR cannot parallel connect with "485 port" of another device.
- e. The voltage between the A,B lines of the decoder should be less than 5v.

Alarm Input/Output Details

Important!

Please refer to the specifications for the alarm input and output channel amount. Do not merely count the alarm input and output channel amount according to the ports on the rear panel.

The following interface is based on the 8-channel advanced 1080P (V2) mini 1U Series.





1, 2, 3, 4, 5, 6,	ALARM 1 to ALARM 16. The alarms become active in low voltage.
7, 8, 9, 10, 11,	
12, 13, 14, 15, 16	
NO1 C1, NO2 C2,	Three normal open groups (on/off signal)
NO3 C3,	
÷	Earth cable.

Alarm Input Ports

- Grounding alarm inputs. (Normal Open or Normal Close type)
- Please parallel connect COM end and GND end of the alarm detector (Provide external power to the alarm detector).
- Please parallel connect the Ground of the DVR and the ground of the alarm detector.
- Please connect the NC port of the alarm sensor to the DVR alarm input (ALARM)
- Use the same ground with that of DVR if you use external power to the alarm device.



Alarm Output Ports

- Provide external power to any external alarm device.
- To avoid overloading, please read the following relay parameters sheet carefully.
- RS485 A/B cable is for the A/B cable of the PTZ decoder.
- T+,T-,R+,R- are four-wire double duplex RS485 port.

T+ T-: output wire R+ R-: input wire

Relay Specification

Model:	JRC-27F	
Material	Silver	
Rating	Rated switch capacity	30VDC 2A, 125VAC 1A
(Resistance Load)	Maximum switch power	125VA 160W
	Maximum switch voltage	250VAC, 220VDC
	Maximum switch currency	1A
Insulation	Between contacts with same polarity	1000VAC 1 minute



	Between contacts with different polarity	1000VAC 1 minute		
	Between contacts and winding	1000VAC 1 minute		
Surge voltage	Between contacts with same polarity	1500V (10×160us)		
Length of open time	3ms maximum			
Length of close time	3ms maximum			
Longevity	Mechanical	50×106 times (3Hz)		
	Electrical	200×103 times (0.5Hz)		
Temperature	-40°C~+70°C			

RS485 Port

When the DVR receives a camera control command, it transmits that command up the coaxial cable to the PTZ device. RS485 is a single-direction protocol; the PTZ device can't return any data to the unit. To enable the operation, connect the PTZ device to the RS485 (A,B) input on the DVR.

Below is a diagram of the 32-channel alarm I/O ports:



Since RS485 is disabled by default for each camera, you must enable the PTZ settings first. This series DVR supports multiple protocols such as Pelco-D, Pelco-P.

To connect PTZ devices to the DVR:

- 1. Connect RS485 A,B on the DVR rear panel.
- 2. Connect the other end of the cable to the proper pins in the connector on the camera.
- 3. Please follow the instructions to configure a camera to enable each PTZ device on the DVR. **USB Port**

DVR Assembly Guide

The following instructions will show you how to set up the cables for the DVR, cameras, as well as a monitor or TV screen.

To set up the DVR's cable connections, there are 6 major steps:

Connect a monitor or TV screen to your DVR. For purposes of this guide, we will use a VGA connection. Take a VGA cable, and connect one end to the VGA port on your monitor/screen and the other end to the VGA port on the back panel of your DVR.





2. Connect the included USB mouse to the front of the DVR.



3. Connect an Ethernet cable to your router.



Then, connect the other end of the Ethernet cable to the DVR.





4. Secure the coaxial extension cable to the camera's video cable port. Then, connect a power adapter to the camera's power adapter port and plug the power adapter into a wall socket or power source.



5. Secure the coaxial cable port from the camera to any of the video (coaxial) ports on the back of the DVR.





6. Connect the power adapter into the back of the DVR, and then plug in the DVR power adapter into an electrical socket to turn on the unit.



Using an Amcrest 4-in-1 Camera

Quadbrid or 4-in-1 technology, allows for a flexible means of providing HD-CVI, HD-TVI, AHD, and Analog formatted video to your DVR. The signal is transmitted uncompressed, which eliminates latency and allows for real-time, highly reliable video security without loss or delay. The cameras connect point-to-point directly to the DVR (BNC) which provides a highly secure, closed network, as well as a painless and non-complex plug-and-play setup process. The toggle switch for your 4-in-1 camera is represented in the image below:



Most Amcrest DVRs will require you to set the camera to **HD-CVI or Analog (960H)** settings and may not be compatible with HD-TVI or AHD. Ensure your 4-in-1 camera's toggle switch is set to the proper setting as indicated in the diagram below.



Note: If the proper mode configuration is not set, **you will not be able to view your camera on your DVR**. Please make sure you have the proper settings on your camera before you begin setting up or installing.

To install your Amcrest 4-in-1 camera, please follow the steps provided below:

Note: Make sure you have the proper mode configuration on your camera before running or connecting any cables.

Step 1: Connect a BNC (coaxial) cable to the video out connection of your camera.



Step 2: Connect the male end of the DC power connector of the BNC (coaxial) cable to the female end of the power connector of the camera.

Step 3: Connect the BNC (coaxial) cable to a video out channel on the back of your DVR.

Step 4: Connect the male end of the DC power connector of the power adapter to the female end of the power connector of the BNC (coaxial) cable. Plug in the power adapter to apply power to the camera.

For more information on the installation process described, refer to the image below for more details.



- PLEASE READ BELOW-

Note: Your DVR may not work properly if the following is not accounted for.

Every DVR comes preset to a video output resolution of **1280x1024**. What this means is that any time an HDMI cable is plugged into an HDTV, it may result with a blank screen even if the DVR is operational. If this occurs, please follow the steps provided below to change the resolution. **Procedure using a VGA cable:**

- 1. Connect your DVR to a computer monitor or TV screen with a VGA cable (the HDMI cable should not be connected during this process).
- 2. Boot up your DVR. On the monitor or TV, please make sure the "input" is set to VGA.
- 3. When the interface loads, you will see the login screen appear. Enter your credentials. (To find your login credentials, please refer to part 3 of this guide: **Console Setup** > **Logging in**.)
- 4. On your DVR, open the Main Menu by left-clicking once on the live feed screen and, under the Settings row, click on the System icon.





5. Then, on the new window, click Display from the list on the left column of options. Change your resolution from **1280x1024** to **1920x1080** and click **Apply** down below. Your DVR will reset to effect the change.

		& SETTING	1 18:30:25
	🗲 🛛 Back To Main	🚽 CAMERA 💿 NETWORK 👘 EVENT 📃 SYSTEM 📮 STORAGE	
	GENERAL	Display Tour Setup Zero Channel Favorites	
	DISPLAY		
	PAN/TILT/ZOOM	GUI	
	ACCOUNT	Transparency 0%	
	AUTO MAINTAIN	Time Display 🖌 Channel Display 🖉	
	CONFIG BACKUP	Resolution 1280x720 Preview Enhancement	
CAM 1 🔿 🛛 🤊	DEFAULT	1920×1080 1280×1024	2
	SYSTEM UPDATE	1280x720 1024x768	
		Default Save Cancel Apply	
САМ 3 🧿 🥊	🔆 A M C R E S T		4



6. Disconnect the VGA cable and connect your DVR to an HD monitor or TV using an HDMI cable. Don't forget to change the input to HDMI on a TV. Your interface will now appear, and you can use your DVR freely.

Overview of Navigation and Controls

Startup and Shutdown

Startup

Before initial startup, please make sure:

- The rated input voltage matches the output voltage at your location. Please make sure the power wire connection is secure before pressing the power on-off button.
- Always use a stable current. If necessary, an Uninterruptable Power Supply (UPS) is a good way to ensure power stability.

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

- Plug the power adapter into a wall outlet.
- Connect the power cable to the DVR
- Click the power switch on the DVR's rear panel to supply power to the device.
- Wait a few seconds, and then push the power button on the front of the device to fully power it on.

Shutdown

Note:

- When you see the corresponding dialogue box "System is shutting down..." Do not click the power on-off button directly.
- Do not unplug the power cable or click the power on-off button to shut down the device directly when device is running (especially when it is recording.)

There are three ways for you to log out.

- Main menu (RECOMMENDED)
 From Main Menu->Shutdown, select shutdown.
 Click the OK button and you can see device shuts down.
- b. From power on-off button on the front panel.Press the power on-off button on the DVR front panel for more than 3 seconds to shut down the device.
- c. From power on-off button on the rear panel.

Auto Resume Feature

The HDCVI has an auto resume feature that allows the system to automatically backup video and resume previous working status after power failure.

Button Battery Replacement

The DVR has a button battery that's used to ensure accurate system time. The battery is a CR2032 watch battery, and it is recommended that the batter is replaced once a year.



Note: Before replacement, please save the system setup, otherwise, you may lose data completely! **Display Settings Screen**

Every DVR comes preset to a video output resolution of **1280x1024**. What this means is that any time an HDMI cable is plugged into an HDTV, it may result with a blank screen even if the DVR is operational.

If this occurs, please follow the steps below.

Procedure using a VGA cable:

- 1. Connect your DVR to a computer monitor or TV screen with a VGA cable (the HDMI cable should not be connected during this process).
- 2. Boot up your DVR. When the interface loads, you will see the login screen appear. On the monitor or TV, please make sure the 'input' is set to VGA.
- 3. On your DVR, open the Main Menu by left-clicking once on the live feed screen and, under the Settings row, click on the System icon. Then, on the new window, click Display from the list on the left column of options. Change your resolution from **1280x1024** to **1920x1080** and click Apply down below. Your DVR will reset to effect the change.
- 4. Disconnect the VGA cable and connect your DVR to an HD monitor or TV using an HDMI cable. Don't forget to change the input to HDMI on a TV. Your interface will now appear, and you can use your DVR freely.

Display Settings Screen

Initial DVR Setup

The first screen you will be taken to during setup will be the Administrator page. In this page, you will set your DVR username and password as well as set up security questions. These security questions will help assist during password reset procedures or as a means of gaining access to a forgotten password.

Note: A strong password for the device should be between 8 to 32 characters long with a combination of letters and numbers. Please avoid using special characters during password setup.

After you have entered a valid password, use the drop-down menu in question one and two to select a security question. Enter the answer for your question into the **Answer** field. When you are done, click **OK** to continue. The information will then be modified and saved to your device, click on **OK** to continue.



ک Disk			2018-10-08 14:35:44
		ADMINISTRATOR	
	Username	admin *	
Inva	Enter Password	•••••	
	Confirm Password	Message	
	Secure Question Question 1	Successfully modified the password!	2
	Answer	ок	
	Question 2	wildts your list oar mouerr	
	Answer	car	
		ОК	
		3	4

After the administrator page has been modified, you will then be taken to the startup wizard which will guide you through a step by step process of setting up your DVR.

Startup Wizard

The first page of the Startup Wizard will appear:

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

If you do not want to use the Startup Wizard, or you have already gone through it and do not want it to keep appearing, unmark the checkbox next to **Startup** and click **Cancel**. To proceed with the startup wizard, click **Next**. **Note**: Every page from the Startup Wizard that follows can be accessed and modified at any time through the Main Menu.

System Login



Log into your DVR with the credentials set up on the administrator page. Type in the username and password you have initially set for the DVR and press **OK** to continue.

	SYSTEM LOGIN	
User Name	admin	•
Password	•••••	
	OK Cancel	

If you have forgotten your password or would like to reset your existing password. Click on the Forgot Password icon ((a)) and answer the security questions that you assigned in the administrator menu.

	Reset	
Question 1	What's your favorite pet?	
Answer	dog	
Question 2	What's your first car model?	
Answer	car	
Reset password of	(admin)	
New Password	•••••	
Confirm Password	•••••	
	Reset Cancel	

Next, enter the new password that you would like to set in the **New Password** field and confirm the password. Lastly, click on the **Reset** button to reset the password. Once your password has been successfully reset, click on **OK** to continue.

General

The first screen that comes up is the **GENERAL** settings screen. Make sure to click the tabs at the top for Date & Time, as well as Holiday to configure those settings as well. Once you are satisfied with the settings on this screen, click the **Next** button at the bottom of the screen.



		GENERA	L		
General	Date&Time	Holiday			
Device Name Device No. Language Video Standard Instant Play Auto Logout Navigation Bar Startup Wizard Mouse Sensitivity	AMDV1081 8 ENGLISH NTSC 5 10 Slow	▼ min. min. Mon	tor Channel(s)	when logout	
Default			Save	Cancel	Apply

Network

The next screen that comes up is the **NETWORK** settings screen. Unless you have a specific reason to change these settings, it's best to leave them as they are. Please note, the IP address for the DVR will be used to access your DVR's web user interface on a laptop or PC. As good practice it is important to set your IP address to static before proceeding. For more information on how to access your DVR's web user interface on a laptop or PC, visit, amcrest.com/DVRwebsetup.

	NETWORK																	
IP	Version	IPv4			Ŧ													
М	IAC Address	9C:8E:CD:0D:AF:8D																
М	lode	😐 ST	AT	ΊC		DH	CP											
IP	Address	10				29		95			Test							
S	ubnet Mask	255																
D	efault Gateway	10																
Pi	referred DNS	8		8		8		8										
A	lternate DNS	8		8		4		4										
м	πυ	1500																
		LAN D	owi	nloa	ad													
	Default									Bad	:k	N	ext	C	Canc	el		



Once you are satisfied with the settings on this screen, click the **Next** button at the bottom of the screen.

P2P

The next screen that appears is the P2P screen. This screen allows you to connect your DVR to your mobile device via the Amcrest View Pro app. To download the app, use your mobile devices camera and scan the **Cell Phone Client** QR code. For more information on how to add your DVR to the Amcrest View Pro app, visit <u>amcrest.com/appsetupDVR</u>



Encode

The next screen that appears is the **ENCODE** settings screen. This is where you can adjust the video quality settings for your DVR/cameras, including the compression and frame rate. Make sure to check the **Snapshot** and **Overlay** tabs to see those settings too.



		NCODE		
Encode S	inapshot Ove	erlay		
Channel				
Туре	Regular		Sub Stream1	•
Compression	H.264H		H.264H	-
Resolution	1280*720(720P)		352*240(CIF)	*
Frame Rate(FPS)	30		15	•
Bit Rate Type	CBR		CBR	•
l Frame Interval	15		1 S	•
Bit Rate(Kb/S)	2048 👻		320 -	
Reference Bit Rate	512-4096Kb/S		28-512Kb/S	
Audio/Video	-		- 2	
Audio Format	G711a		Audio Source LO	CAL -
Default Cop	у			Apply
		Bac	k Next	Cancel

The next screen you see is the Schedule settings screen. Make sure to click the tabs at the top for Record and Snapshot to configure those settings as well. Your DVR is configured, by default, to record everything on all channels 24/7 (this will only actually happen provided you have a hard drive installed). You can also use this screen to set up motion detection and alarm schedules.

	sc	HEDULE		
Record	Snapshot			
Channel 1 - Pro	e-record 4 se	c. Redundancy		
■ All 0 2	gular <mark>I</mark> MD : 4 6 8	Alarm I 10 12 14 16	MD&Alarm 18 20 22 24	4
🗖 Sunday				🖻 🌣
🗖 Monday				🖻 🌣
🗖 Tuesday				🖻 🌣
Wednesday				🖻 🌣
🗖 Thursday				🖻 🌣
🗢 Friday				🖻 🌣
Saturday				ā 🌣
Default Cop	у		-	Apply
		Back	Finished	

Once you are satisfied with the settings on this screen, click the **Finished** button at the bottom of the screen.



Before following this guide to the next step, that covers the main menu, you will need to left-click once or right-click and select "Main Menu" from the right-click menu.

Main Menu Overview

The screenshot below is the main menu screen for the Amcrest DVR console interface:



Below are short descriptions for each of the menu items on the main menu:

OPERATION -> SEARCH: Search and playback recorded video that is stored on the hard drive. OPERATION -> BACKUP: Backup recorded files onto a USB drive. OPERATION -> SHUTDOWN: Logout, shutdown, or restart the system.

INFO -> **SYSTEM**: View information about the recordings, hard drive statistics, or version information. **INFO** -> **NETWORK**: View information about the network or test the network status **INFO** -> **EVENT**: Display information about events that triggered recording. **INFO** -> **LOG**: Display system logs of critical events.

SETTINGS -> **CAMERA**: Review or edit settings for each camera, including video settings (e.g. quality, bit rate, color, etc.).

SETTINGS -> NETWORK: Review or edit network settings for the DVR (e.g. email, DDNS, UPnP, etc.) SETTINGS -> EVENT: Review or edit settings that trigger recording events (e.g. motion detection, alarm, etc.). SETTINGS -> SYSTEM: Review or edit system parameters or configuration, including account settings (e.g. usernames, etc.).

SETTINGS -> **STORAGE**: Review or edit storage parameters and settings.



S5 Model DVR Initialization

Newer Amcrest model DVRs with end notations "S5" will provide a different setup method than its previous counterparts. To verify if your DVR has this specific end notation, inspect the serial number tag on the bottom of the device.



For example, if the model number for the device has a AMDVXXXXX-S3 or above end notation the below initialization procedures pertain to that device. For more information on the initialization process of these model DVRs, refer to the instruction set provided below.

To begin, hook your device up to your network with an Ethernet cable and apply power to the device. Ensure you have a monitor on the device as well (VGA or HDMI) and allow the DVR to boot.

Once the DVR has successfully finished booting you will be immediately taken to a **Device Initialization** screen. The device initialization screen allows you to enable basic setup features more efficiently to the DVR. These are basic features related to the device, such as password setups or customized recovery setting.

Enter Password

The first screen you will see in the Device Initialization screen is the **Enter Password** page. This page allows you to set a password for your device and is represented in the image below.

	Device Initialization				10:09:19
		→	→		
CAM 1		admin			6 Kb/S 92 95 93
САМ 7 🛤				Next	93

To login to the system for the first time, you will need to assign a password for the user (admin) account. Please enter a password for the account into the password field and rewrite it into the confirm password field. You can



also add in a prompt question that will be applicable for password recovery. The prompt question field is optional but is recommended to help you remember what the password you set was if you have forgotten.

Note:

- Use a password that has 8 to 32 characters, it can be a combination of letter(s), number(s), and symbol(s) with at least two kinds of them. Do **not** use special symbols such as, ('"; : &).
- These settings configured can be changed at any time by accessing the settings menu of the DVR when finished.
- If the password for the administrator account is misplaced, forgotten, or a user is locked out, please visit <u>https://amcrest.com/password</u> to request a new password.

Unlock Pattern

The next screen that will be configured will be the unlock pattern screen. In this screen you can configure the unlock pattern for your device. This setting is set to ensure the security and integrity of your device but is optional and can be skipped by pressing the **Skip** button.



To set the unlock pattern, use the provided mouse to draw a continual pattern that you would like to use. Once you have drawn the desired pattern on the screen the system will ask you to confirm the unlock pattern you have set. To confirm the setup, use the mouse to draw the same pattern again. When complete you will be automatically directed to the password protection screen.

Password Protection

This screen is another means of password retrieval. If you would like to reset your password via email (recommended), toggle the email address toggle switch to the on position or check the checkbox for this option if applicable. Enter a valid email address in the **Email Address** field to retain the email address in the system.




Next, you will need to enable security questions. These security questions will be set up to better assist with the password recovery process. To enable security questions, toggle the toggle switch to the on position or check the checkbox for this option if applicable in the **Security Questions** field. Select a question from the drop-down menu for **Question 1**, **Question 2**, and **Question 3** and enter the answers to those questions in the **Answer** fields. Once this section is complete, click on the Save button to save your information to the device. You will then be able to proceed with the Setup Wizard.

Setup Wizard for S5 Model DVRs

After device initialization has been completed your device will display a startup wizard screen. This is optional but is highly recommended because it will help to better assist you complete the setup process.

This is feature is highly recommended to use to efficiently set your device for the first time. However, the feature is optional. To cancel startup wizard, press **Cancel**. If you wish to proceed with the startup wizard, click **Next**.





Note: To have the wizard appear during initial startup of your device, click on the checkbox option next to **Startup**.

General

The first screen that appears in the startup wizard will be the **General** menu. This menu allows you to set the name for your device as well as provides several general options associated with your device. Once set, click **Apply** and then the **Next** button to continue.

				GENE	R۹I		2018-07-20 12:	44:29
				GENE				
	ſ	General	Date&Time	Holiday			_0	
		Device Name	AMDV1081					
		Device No.						
CAM 1 😳	?	Language	ENGLISH					3
		Video Standard	NTSC					
		Instant Play						
	ſ	Auto Logout		min. Me	onitor Channel(s) when l	ogout	<u></u>	
		Navigation Ba						
		🗾 Startup Wizar						
CAM 4	•	Mouse Sensitivity	Slow	- Fast				
CAIN 4 😈	·	-						b KL/C
							5	56
					•		6 7	57 55
	٢	Dofault			Sava Can	col Apply	8	57
		L'elauit			Jave Call	се дру	4	
CAM 7 😳	?	7	CAM 8 🔾 🔰		8	1		

Device Name	Displays the model number of your DVR
Device No.	Number of analog channels supported.
Language	Which language your DVR is operating under.
Video Standard	Displays the video standard (NTSC, PAL)
Instant Play	Set to play back the previous five minutes to sixty minutes of playback video.
Auto Logout	Sets the time limit of idle time for the DVR before the
Navigation Bar	Check if you want to enable Navigation bar on the live view screen.
Startup Wizard	Check if you want the startup wizard to appear upon startup.
Mouse Sensitivity	Sets the sensitivity of your mouse controls.

Date & Time

The next screen that appears will be the Date & Time settings screen. This is where you can set the date and time for your specific location. If you wish to utilize daylight savings time, check the **DST** check box. Once you have selected the proper date and time for your device, click **Apply** and then the **Next** button to continue.



	100.0		GENE	RAI		2018-07-20 18:56:23
			GENE			.
		General	Date&Time Holiday			$\hat{\cdot}$
сам 1 💽 🧵	Ì	Date Format Date Separator System Time	YYYY M Time Form 2018 -07 - 20 18 :56 : 22	nat 24-HOUR •	 Save 	3
	(?)	UST DST Type 🍨 V Start Time End Time	Neek Date Mar • 2nd • Nov • 1st •	Mo ▼ 02 : 00 Mo ▼ 00 : 00		(;)
CAM 4 😳 📍		NTP Host IP	time windows com	Manual Lindate		6
		Port Interval	123 60	min.		СН КЫ/S 5 59 6 60 7 58
		Default			Apply	8 60
			4	Back Next	Cancel	
CAM 7 😳 🛛 📍			7 CAM 8 💟 🛛 🏋	8		

Note: Make sure to toggle the NTP toggle switch to the off position to avoid syncing your device to the NTP server.

Network

The next screen that will appear is the Network settings screen. In this screen you can configure the network settings for your DVR. If you want to set your device up to have a static IP (recommended), select the STATIC radio button next to DHCP.

				NETWORK	2018-07-20 18:57:12
		0	IP Version MAC Address	IPv4 • 9C:8E:CD:19:2D:FD	6
CAM 1 💿	7		Mode IP Address	STATIC DHCP 10 0 14 159 Test	
			Subnet Mask	255 0 0 0	
		0	Preferred DNS Alternate DNS		0
CAM 4 🔕			MTU	1500	
		0			CH Kb/S 5 56 6 57 7 55 8 57
CAM 7 🔕	?		Default	Back Next Cancel	



Note: To test the connectivity of the device to your network, click on the Test button. The device will return a network status. To return to the previous menu, click the Back button.

P2P

The next screen that appears is the P2P settings screen. This will be enabled by default. It is highly recommended to keep this enabled if you want to use you're the Amcrest View Pro mobile app or AmcrestView.com to view your cameras remotely. After enabling the P2P toggle switch, click the Next button to continue.



Encode

The next screen that appears is the ENCODE settings screen. This is where you can adjust the video quality settings for your DVR/cameras, including the compression and frame rate. When you have finished configuring your encode settings, click **Apply** and then the **Next** button to continue.



			Í	E	ENCODE		1	2018-07-20 18:5	7:56
		6	Encode	Snapshot Ov	erlay			$\overline{\mathbf{O}}$	
		\sim	Channel						
			Туре	Regular		Sub Stream1			
CAM 1 🔘			Compression	H.264H		H.264H			3
			Smart Codec	Stop					
			Resolution	1920*1080(1080P)		352°240(CIF)			
			Frame Rate(FPS)	15				\sim	
		\sim	Bit Rate Type	CBR		CBR			
5			I Frame Interval	15		15			
CAM 4 😳	?		Bit Rate(Kb/S)	2048 -		320 -			6
			Reference Bit Rate Audio/Video	640-6144КЫS		28-512Kb/S		CH 5 6	Kb/S 55 56
		\sim	Audio Format	G711a		Audio Source	LOCAL -	7	55 56
		\sim	Default Cop	οy.			Apply		27
					Ba	ck Next	Cancel		
CAM 7 🔘	?		7]	CAM 8 🥥 🛛 🌾		1	1		

Snapshot

The next screen that will appear will be the Snapshot settings screen. This is where you can adjust the settings for your snapshots. This includes, the image size, quality, as well as interval in which the snapshot is retained. Once set, click **Apply** and then the **Next** button to continue.

					EN	CODE	1		2018-07-20 1	8:58:12
		r.	Encode	Snapshot	Overl	īy			î.	
		\sim	Manuai Snap		- /Time				Ĕ	
CAM 1			Channel							3
		je -	Mode	Trigger						
			Image Size	352°240(CIF)			k			
		\sim	Image Quality						\sim	
			Interval	1 SPL						
CAM 4 😳	?									5
									CH 5 7 8	Kb/S 58 59 58 59
		~	Default	Сору				Apply		
						Back	Next	Cancel		
CAM 7 😳	?			7 CAM 8 😳	7		8			

Overlay

The next screen that will appear will be the Overlay settings screen. This is where you can change overlay settings for each channel. This includes, channel numbers, time displays, and channel titles. Once set, click **Apply** and then the **Next** button to continue.



		ENCODE		2018-07-20 18:58	25
ſ	Encode Sna	pshot Overlay			
11.723	Channel 1 Cover-Area 🗮 P	review Record Set		1	
CAM 1 😳 📍	Time Display	🦉 Record Set			
	Channel Display	Record Set			
ļ	Ĵ			~	
CAM 4 🥥 📪					e
				CH 5 6 7 8	Kb/S 59 59 50
	Deiault Copy		Apply		
		Back	Next Cancel		
CAM 7 😳 📍	7 CA	M 8 🥥 🤺	8		

Basic

This option allows you to configure the settings for an installed hard drive. For example, you can set settings for when the hard drive is full, you can set the file length and time of a recorded video, or setup auto-delete to auto delete old files from the system.

		BASIC		2018-07-20 18:58:42
(?)	HDD Full Overwrite Pack Mode Time Length Auto-Delete Old Files	60 min.		$\langle \cdot \rangle$
CAM 1 💿 📍	Never *			<u>.</u>
CAM 4 🗿 📍			₩.	CH KbS 5 55 6 59 7 58 8 59
САМ 7 😳 🣍	Default 7 CAM 8 🔾	Back Next	t Cancel	

For more information on the settings listed in this menu, refer to the table below.

HDD Full	Configure the settings for the situation when all the read/write HDDs are full.
Pack Mode	Configure the time length and file length for each recorded video.
Auto-Delete Old Files	Configure whether to delete the old files and if yes, in the Auto-Delete Old Files list, select Customized to configure the time length for how long you want to keep the old files.



Schedule

The next screen you see is the Schedule screen. Your DVR is configured, by default, to record everything on all channels 24/7 (this will only actually happen provided you have a hard drive installed). You can also use this screen to set up motion detection and alarm schedules.

					SCHED	ULE						2018-07-20	18:59:00
	ŝ	Record Channel 1	Snapsh Pre-recor	ot d 4	sec.	Redund						$\overline{\cdot}$	
CAM 1 😳 🤞 ?		o _{All}	Regular 0 2 4	■MD 6 8	1 0	Alarm 12 14	MD 16	&Alarm 18 20	22 2	24			3
		🗖 Sunday				1 1				ŵ	\$		
		Monday			-	1.1			_				
		🗖 Tuesday				1 1			-	8	\$	\mathbf{O}	
	\sim	🗖 Wednesday				1 1 1			-	ā	\$	<u>۲</u>	
		🗢 Thursday				1			11	ŧ	٠		
CAM 4 😳 🥇	_	 Friday 				1.1.1				ŧ	۵	~	6
		Saturday				1.1.1			-	ŧ	۵	5	58
	$\mathbf{\hat{s}}$	Default	Сору							Apply		78	59 59
C00470			71.0414.0			Back	F	inished	k				

Once you are satisfied with the settings on this screen, click the **Apply** button.

Next, you will be able to configure your snapshot settings for your scheduled recordings. You can also use this screen to set up motion detection and alarm schedules for snapshot events. Once you have scheduled your events, click on the **Finished** button to continue.

Once the setup process is finished and you have clicked the "Finished" button, you should see the below dialog box:



Click **OK** to continue and the next screen you will reach will be the home video wall screen for your system.



Live View

When you log in, the system will be in live view mode. You can see the system date, time, channel name and window number. If you want to change the system date and time, you can refer to the general settings (Main Menu->Setting->System->General). If you want to modify the channel name, please refer to the display settings (Main Menu->Camera->CAM name).

1		Recording status	3	?	Video loss
2	TT.	Motion detection	4		Camera lock

Tips:

- Preview drag: If you want to change the position of channel 1 and channel 2 when you are viewing, you can click and hold the left mouse button on the channel 1 window and then drag it to the channel 2 window, then release the left mouse button. This will switch channel 1 with channel 2's position.
- Use the middle mouse button to control how the windows are split: You can use the middle mouse button to switch the window split amount.

Preview Control:

The preview control function has the following features.

Supports preview playback.

In the preview desktop, the system can playback the previous 5-60 minutes of recorded video of the current channel. Please go to the Main Menu->General to set real-time playback time.

Supports drag and play function. You can use your mouse to select any playback start time.

Supports playback, pause, and exit functions.

Right now, the system does not support slow playback or backwards playback functionality.

Supports digital zoom function.

Supports real-time backup function.

You can follow the contents listed below for operating instructions.

Preview Control Interface

Move your mouse near the center at the top of the video of the current channel. You will notice that the system pops up the preview control interface as shown below.

If your mouse stays in this area for more than 6 seconds without any action, the control bar will auto-hide.



1. Mute

Click to mute. Click again to enable audio when in preview mode. Please note that this function only works when viewing one window/channel.

2. Digital zoom



This is used to zoom into a specified zone of the current channel.

Click the button, and the button will then show as

There are two ways for you to zoom in.

- Click and drag the mouse to select a zone. You can see the interface shown below.
- Push the middle mouse button at the center of the zone you want to zoom into and move the mouse. You can see the interface as shown below.

Right click the mouse to cancel zoom and go back to the original interface view.

3. Manual record function

This is used to back up the current channel's video to the USB device. The DVR cannot backup multiple channels of video at the same time.

Click the button begin recording. Clicking it again causes the system to stop recording. You can find recorded files on the flash drive.

4. Real-time playback

This button is used to playback the previous 5-60 minutes recorded from the current channel.

Please go to the Main menu->Setting->->System->General screen to set real-time playback.

The system may pop up a dialog box if there are no recordings on the current channel.

5. Manual Snapshot



to take 1-5 snapshots at a time. The snapshot file is saved on the USB device or HDD. You can go to the Search interface to view these snapshots.

Right-Click Menu

By right-clicking the mouse on the screen, the following menu opens:

	View 1	×
	View 4	
	View 8	
	View 9	
ত	Pan/Tilt/Zoom	
Ċ	Color Setting	
	Search	
-	Manual	
H	Main Menu	

Video Viewing Options

The DVR supports many different video viewing options of the live streamed channels. The desired view can be selected from the dropdown list as shown below:





Pan/Tilt/Zoom (PTZ) Control

The PTZ control setup is shown below:



Note: The name of the command will be grayed out if the function is not supported. Here you can control PTZ direction, speed, zoom, focus, iris, preset, tour, scan, pattern aux function, light, wiper, rotation, etc.

The speed field controls PTZ movement speed. The value ranges from 1 to 8.8 is the fastest and 1 is the slowest.

To adjust values for Zoom, Focus, and Iris, click the buttons on either side of the function to adjust them. The following chart will provide guidance on how to use the buttons to adjust the PTZ functionality.

Name	Function Button	function	Shortcut key	Function Button	function	Shortcut key
Zoom	Q	Near	Þ	\odot	Far	*
Focus	1	Near	•	-	Far	►
Iris	3	Close	◀	0	Open	► II

The PTZ control panel also supports the rotation of the camera in 8 different directions. If the buttons on the front panel of the DVR are used, then only four of the directions will be accessible (up/down/left/right).



In the middle of the eight directional arrows, there is a button to activate the 3D Intelligent Positioning function. To use the 3D Intelligent Positioning function, your PTZ enabled device should support this function, and a compatible USB mouse should be plugged into the DVR.



By clicking the button and activating the 3D Intelligent Positioning, the system will go to single screen mode. Once activated, section size can be adjusted using the mouse. The zone selected supports 4x to 16x speeds and can use PTZ automatically to move the camera field. The smaller the designated zone, the higher the movement speed within the zone.

Additional functions within the PTZ control panel can be opened by clicking the button. See the chart below to see which additional functions are available.



lcon	Function	lcon	Function
	Preset		Flip
	Tour	Ð	Reset
	Pattern	\$	Settings
	Scan	OFF	Aux on-off button
<u>f</u> a	Rotate		Go to menu

Note: The name of the command will be grayed out if the function is not supported. See below for detailed information on each PTZ function.

To configure the functions above, click the Settings button.

Preset

This function allows for the creation and editing of preset camera configurations.



	PAN/TII	_т/zoom	
Preset	Tour	Pattern	Border
< (SIT)) }	Preset Se Del Pr	0 t eset

To create and manage preset camera configurations, follow the steps below:

- Configure the camera positioning as needed.
- Click the Set button and then input the preset number.
- Click the Set button to save the current preset.
- Click Del Preset to delete the current preset.
 Tour

The tour function allows for the use of multiple presets stringed together.

	PAN/TILT/ZOOM					
Preset	Tour	Pattern	Border			
		Preset	1			
^		Patrol No.	1			
		Add Pr	eset			
< (()	>	Del Pro	eset			
	2	Del Ti	our			
×						

To create and manage tours, follow the steps below:

- Ensure you have more than 1 preset configured already.
- Input the tour value, and the preset value.
- Click the Add Preset button to add another preset.
- Continue adding presets as needed.
- Click Del Preset to remove a preset from the tour.
 Click Del Tour to delete the entire tour.

Pattern

The pattern function allows for a custom tour to be created on the fly using the PTZ controls.





To create a pattern, click Begin, then use the PTZ controls to move the camera around. Once finished, click End to end and save the pattern. During the use of pattern mode, zoom/focus/iris cannot be modified. **Border**

The border function allows for constraining the area of movement for the cameras during any PTZ function.

	PAN/TII	_T/ZOOM	
Preset	Tour	Pattern	Border
< (state)) }	L Ri	eft ght

To set up borders, move the camera using the PTZ controls to the left limit, then click Left to designate that position as the left limit. Then move the camera to the right limit, and then click Right to designate that position as the right limit.

Rotate

The rotate button enables camera rotation.

Flip

The flip button flips the present camera configuration on a vertical axis.

Reset

The reset button restores the camera to its original configuration settings.

Aux On/Off

The camera may have an auxiliary function, and this feature enables its use. The aux number corresponds to the device's slot on the PTZ decoder.





Color Settings

Using this screen, the color settings can be configured for the camera display.

Time Period Effective Time Sharpness Brightness Contrast Saturation	▼ ▲ ☆ ●	Time Period 1 00 : 00 - 24 : 00 1 50 50 50	
Color mode Adjust Equalizer Video Position	r	Standard – Reset Equalizer	
Customized	Def	ault OK Cancel	

The following chart shows which settings can be configured by Color Settings:



Item	Note
Period	There are two periods in one day. You can set different sharpness, brightness, and contrast setup for different periods.
Effective Time	Check the box here to enable this function and then set the period time.
Sharpness	The value here is used to adjust the sharpness of the video. The value ranges from 0 to 100. The larger the value is, the clearer the edges are and vice versa. Note: The higher the value, the higher likelihood of picture noise occurring. The default value is 50 and the recommended value ranges from 40 to 60.
Brightness	This is used to adjust monitor window brightness. The value ranges from 0 to 100. The default value is 50. The larger the number, the brighter the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high. The recommended value ranges from 40 to 60.
Contrast	This is used to adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50. The larger the number, the higher the contrast is. You can use this function when the whole video brightness is OK but the contrast is not correct. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over expose the picture. The recommended value ranges from 40 to 60.
Saturation	This is used to adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50. The larger the number, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not be clear if the value is too low. The recommended value ranges from 40 to 60.
Gain	The gain adjust is to set the gain value. The default value may vary due to different device models. The smaller the value, the lower the noise, but brightness is also affected and may be too low in dark environments. This setting can enhance the video brightness if the value is high, and it may cause the picture noise level to rise to high levels.
Color Mode	It includes several modes such as standard, color, bright, and gentle. Select a color mode, the sharpness, brightness, contrast, etc. and it will automatically switch to the corresponding setup.

Navigation Bar

To enable Navigation Bar functionality, go to Main Menu -> Settings -> System -> General and check the "Enable Navigation Bar" box.

The Navigation Bar looks like the picture below:





Main Menu

Click the button to go to the main menu interface.

Video Viewing Options

These buttons allow the user to select a viewing mode for live viewing.

Favorites



Click the way button and the system displays the favorites drop down menu. Once the desired layout of cameras is achieved, click this button and select "Add to Favorites". A window will appear for you to name the favorite. To remove a favorite, select "Trim Collection".

Color Settings

Click the www button and the system goes to the color interface.

Search



button and the system goes to the search interface.

Alarm Status

Click the button and the system goes to the alarm status interface. It is used to view device status and channel status.

USB Manager

button and the system goes to the USB Manager interface. It is used to view USB information, Click the

backup, and update.

HDD Manager

Click the button and the system goes to the HDD manager interface. It is used to view and manage HDD information.

Network

Click the button and the system goes to the network interface. It is used to set the network IP address, default gateway etc.

PTZ

button and the system goes to the PTZ control interface Click the

Tour

and you can see the tour is in process. Click the button to enable tour. The icon becomes



Channel Info

Click the button and the system goes to the channel information interface. It is used to view information about the corresponding channel. See the image below to view the Channel Information screen:

			6	CHANNEL	INFO			
Channel	Motion	Video Loss	Mask	Record Status	Record Mode	Resolution	Frame Rate	Bit Rate(K
	A	<u> </u>			Manual	1280*720	25	2041
		Ă	X		Manual	1280*720	25	59
	×	- X	X	1	Manual	1280*720	25	61
4		- X	8	—	Manual	1280*720	25	60
	ă	X	ă	.	Manual	1280*720	25	60
	ă	X	ă	—	Manual	1280*720		60
	ă	X	<u> </u>	1	Manual	1280*720		59
	ă	X	ă		Manual	1280*720		61
Refresh								

Device Auto Popup

When you insert the USB device, the system will auto detect it and pop up the following dialogue box. It allows you to conveniently backup files, logs, configurations or update the system. See the image below for the USB Device Popup screen



	Find USB device
Name: T Capacity:	sdc1(USB DISK) 14.50 GB/14.51 GB(Free/Total)
File Backup	Log Backup
Config Backup	System Upgrade

Main Menu

•	MAIN MENU							
	¢		\odot		٢			
	OPERATION	SEARCH	BACKUP		SHUTDOWN			
				_			_	
	1		٢					
	INFO	SYSTEM	NETWORK		EVENT	LOG		
				_			_	
	<u>a</u>	-						<u></u>
	SETTINGS	CAMERA	NETWORK		EVENT	SYSTEM		STORAGE

The Main Menu Interface is shown below:

Below are short descriptions for each of the menu items on the main menu:



Operation -> Search: Search and playback recorded video. Operation - > Backup: Backup recorded files onto a CD or USB drive. Operation - > Shutdown: Logout, shutdown, or restart the system.

Info -> System: View information about the recordings, hard drive statistics, or version information. Info -> Network: View information about the network or test the network status Info -> Event: Display information about events that triggered recording. Info -> Log: Display system logs of critical events.

Settings -> Camera: Review or edit settings for each camera.

Settings -> Network: Review or edit network settings for the DVR.

Settings -> Event: Review or edit settings that trigger recording events.

Settings -> System: Review or edit system parameters or configuration. Settings -> Storage: Review or edit storage parameters and settings.

Main Menu: Operation

Search

To access this screen, click the Search button in the Operation row of the Main Menu. The Search screen interface is shown below:



Please refer to the following table for more information:



SN	Name	Function
1	Display window	Here is where the searched picture or file will be displayed. Supports 1/4/8-window playback.
2	Search type	 Here you can select to search the picture or the recorded file. You can select to play from the read-write HDD, from a peripheral device, or from a redundancy HDD. Before you select to play from the peripheral device, please connect the corresponding peripheral device. You can view all recorded files in the root directory of the peripheral device. Click the Browse button; you can select the file you want to play. Important: Redundancy HDD does not support picture backup function, but it supports picture playback function. You can select to play from redundancy HDD if there are pictures on the redundancy HDD.
3	Calendar	The blue highlighted date means there is picture or file. Otherwise, there is no picture or file. In any playback mode, click the date you want to see, and you can see the corresponding recorded file tracers in the time bar.

4	Playback mode and channel selection pane.	 Playback mode: 1/4/9 In 1-window playback mode: you can select 1-16 channels. In 4-window playback mode: you can select 4 channels according to your requirement. In 9-window playback mode: you can switch between 1-8 and 9-16 channels. The time bar will change once you modify the playback mode or the channel option.
5	Card number search	The card number search interface is shown as below. Here you can view card number/field setup bar. You can implement an advanced search.
6	Mark file list button	Click this button to go to mark file list interface. You can view all marked information in the current channel by time. Please refer to chapter 4.8.1.3 for detailed information on how to mark video for playback.



7	Advanced Search	 Click this button and you can view the picture/recorded file list of the current day. The file list is used to display the first channel of the recorded file. The system can display a maximum of 128 files at one time. Use the < and > or the mouse view the file. Select one item, and then double click the mouse or click the ENTER button to playback. You can input the period in the following interface to begin a precise search. File type: R—regular record; A—external alarm record; M—Motion detect record. 00: 00: 00: 00: 00: 00: 00: 00: 00: 00:					
		►/II	Play/Pause There are three ways for you to begin playback. The play button Double click the valid period of the time bar. Double click the item in the file list. In slow play mode, click it to switch between play/pause.				
8	Playback		Stop				
	pane	•	Backward Play In normal play mode, left click the button, the file begins backward play. Click it again to pause current play. In backward play mode, click ►/ II to restore normal play.				
		∢ / ▶	In the playback mode, click it to play the next or the previous section. You can click continuously when you are watching the files from the same channel. In normal play mode, when you pause the video, you can click ◀ and ▶ to begin frame by frame playback.				

		In frame by frame playback mode, click \blacktriangleright / II to restore normal playback.
	•	Slow play In playback mode, click it to use various slow play modes such as slow play 1, slow play 2, and etc.
	₩	Fast forward In playback mode, click to play various fast play modes such as fast play 1, fast play 2, etc.
	Ŕ	Smart search



		The volume of the playback
		Click the snapshot button in the full-screen mode. The system will take a snapshot. The System supports a custom snapshot save path. Please connect a peripheral device first, click snap button on the full-screen mode, you can select or create path. Click the Start button, the snapshot picture will be saved to the specified path.
		Mark button. Allows for the marking of a file for later ease of access. You can refer to chapter 4.8.1.3 for detailed information.
9	Time bar	This is used to display the record type and its period in the current search criteria. In 4-window playback mode, there are four corresponding time bars. In other playback modes, there is only one-time bar. Use the mouse to click one point of the color zone in the time bar and the system will begin playback. The time bar begins with 00:00 when you are setting the configuration. The time bar zooms in on the period of the current playback time when you are playing the file. The green color stands for regular record files. The red color stands for external alarm record files. The yellow stands for motion detect record files.
10	Time bar zooming	The option includes: 24H, 12H, 1H and 30M. The smaller the unit, the larger the zoom rate. You can accurately set the time in the time bar to playback the recording. The time bar begins at 0 o'clock when you are setting the configuration. The time bar zooms in on the period of the current playback time when you are playing the file.
11	Backup	Select the file(s) you want to backup from the file list. You can mark from the list then click the backup button. Now you can see the backup menu. System supports a customized path setup. After selecting or creating new folder, click the Start button to begin the backup operation. The recorded file(s) will be saved in the specified folder. Check the file again and you can cancel current selection. System supports maximum of 32 files from one channel displayed. After you click on the recorded file, click the Backup button and you can save it. For one device, if there is a backup in process, you cannot start a new backup operation.
12	Clip	This is used to edit the file and specify which parts of a file to save. Please play the file you want to edit and then click this button when you want to edit. You can see the corresponding slide bars in the time bar of the corresponding channel. You can adjust the slide bar or input the accurate time to set the file end time. After the clip end time is set, you can click the Clip button again to edit the second period. You can see the slide bar restore its previous position.
		 Click the Backup button after clip to save current content in a new file. You can clip one channel or multiple-channels. The multiple-channel clip operation is like the one-channel operation. Please note: System supports maximum of 1024 file backups at the same time. You cannot operate the clip operation if there are any files that have been checked in the file list.



13	Record type	In any play mode, the time bar will change once you modify the search type.				
Other	Functions					
14	Smart search	 When system is playing, you can select a zone in the window to begin smart search. Click the motion detect button to begin play. Once the motion detect file play has started, clicking the button again will terminate current motion detect file play. There is no motion detection zone by default. If you select to play another file in the file list, the system switches to motion detection playback for the other file. During the motion detect play process, you cannot implement operations such as change time bar or frame by frame playback. 				
15	Other channel synchroniz ation switch to play when playback	When playing the file, click the number button. The system will switch to the same time period of the corresponding channel to play.				
16	Digital zoom	When the system is in full-screen playback mode, left click the mouse on the screen. Drag your mouse to select a section and then left click the mouse to activate digital zoom. You can right click the mouse to exit.				
17	Manually switch channel when playback	During the file playback process, you can switch to another channel via the dropdown list or scrolling the mouse. This function is null if there is no recorded file or system is in the smart search mode.				

Smart Search

The Smart Search feature enables searching for motion within the recorded file for a specific channel. This feature is useful, as it allows users to search a channel's recorded files for motion without having to change the recording type to a motion detection recording.

During the multiple-channel playback mode, double click one channel and then click the button and the system begins smart search. The system supports 396(22*18 PAL) and 330(22*15 NTSC) zones. Please left click mouse to select smart search zones. See the image below:



		2014-	09-25 04:14:10 From ReadWite 14d *
			Image: Simple with the state of th
			14 16 16 17 10 19 20 21 22 23 24 26 26 27 20 29 30
			2 *
CAM 2			
	0 🖲 👓 🖛		S [™] 00:00:00 · 00:00 III
inter a later			17 14 15 26 27 22 23 8 N N N N N N N N N N N N N N N N N N N
Play Sync	🌠 All Record 🔛 Normal 🛛 👷 Alarm 🛛 🏹 Motion		CL24Hr CL2Hr CL1Hr CL0Hen

Click the and you can go to the smart search playback. Click it again and the system stops smart search playback.

Important:

- The system does not support motion detection zone setup while in full-screen mode.
- During the multiple-channel playback, the system stops playback for the rest of the channels if one-channel smart search is used.

Precise Playback by Time

This feature allows for searching through recordings by time stamp.

Select recordings from one day, click advanced search, and go to the file list interface. The user can input the time at the top right corner to search recordings by time. See image on the left side of the images below.

For example, inputting the time 11:00.00 and then clicking the Search button 00: 00: 00 0 allows allows for viewing all of the recorded files after 11:00.00 (The recordings include current times). Double click a file name to playback. **Note**

- After searching files, system implements accurate playback for the first time Play is clicked.
- System does not support precise playback for screenshots.
- System supports synchronized playback and non-synchronized playback. The synchronized playback supports all channels and non-synchronized playback only supports precise playback of the currently selected channel.



02:	33: 2	5	Q,
1			
StartTi	те Тур	е	
02:	33:30 F	3	
02::	33:38 F	ł	

Marked Playback

When playing back a recorded file, you can mark the record when there is important information. After playback, you can use time or the mark button to search a corresponding record and then play it. This feature allows for easy playback of key events within a recording.

Add Mark

When a file is being played and the Mark button () is clicked the following interface will appear:

	Add	Mark		
Mark Time Mark Name	2014-09-09	14:04:20		
Defa	ult 📄 🚺	ок	Can	cel

To continue marking the played file, enter a name for the marked location and click **OK**. Also, ensure the mark time is correct before proceeding.

• Playback Mark



While in 1-window playback mode, click mark file list button to go to the marked file list interface. Double click one-mark file and you can begin playback from the marked time.



	Marks Manag	er
Channel 1 Start Time 201 End Time 201	4 - 09 - 09 00 : 00 : 00 4 - 09 - 10 00 : 00 : 00	Search
0 CH	Mark Time	Mark Name
Delete		Cancel

Marks Manager

Click the mark manager button on the Search interface; you will go to the Marks Manager interface. The system can manage all the recorded mark information of the current channel by default. You can view all marked information in the current channel by time.

Modify

Double click one marked information item. The system pops up a dialogue box that allows for editing of the marked information. The marked information's name can be changed from this dialog box.

Delete

By selecting the marked item and clicking the delete button, the marked item can be removed.

Note: After you go to the mark management interface, the system needs to pause the current playback. System resumes playback after you exit the mark management interface. If the mark file you want to playback has been removed, system will begin playback from the first file in the list.

Backup

The DVR supports backup of recorded files to, USB devices, eSATA devices, and through network download. In this section, USB and eSATA backup will be discussed.

Clicking the backup button from the Main Menu opens the Backup screen. On this screen, all available backup devices are shown with their name, total space, and free space.



Device Name sdc1(USB DISK) Brows 18.52 MB(Space Needed) 14.50 GB/14.51 GB(Free/Total) Brows Type Al • Start Time 2014 - 09 - 09 00 : 00 : 00 Record CH 1 • End Time 2014 - 09 - 09 14 : 43 : 01 File Format DAV Add Rer 2 Channel Type Start Time End Time Size(KB) 1 1 R 14.09-09 14:01:19 14-09-09 14:05:09 2083 2 1 R 14-09-09 14:07:56 14-09-09 14:42:17 15726								BACKUP				
18.52 MB(Space Needed) 14.50 GB/14.51 GB(Free/Total) Type All Start Time 2014 - 09 - 09 00 : 00 : 00 End Time 2014 - 09 - 09 14 : 43 : 01 File Format DAV Add Rer 2 Channel Type Start Time End Time 2 1 R 14-09-09 14:01:19 14-09-09 14:05:09 2088 2 1 R 14-09-09 14:07:56 14-09-09 14:42:17 15726	e	Browse								USB DISK)	e sdc1	Device Nan
Type All • Start Time © 2014 - 09 - 09 00 : 00 : 00 Record CH 1 • End Time © 2014 - 09 - 09 14 : 43 : 01 File Format DAV • Add Rer 2 Channel Type Start Time End Time Size(KB) 1 >1 R 14-09-09 14:01:19 14-09-09 14:05:09 2088 2 >1 R 14-09-09 14:07:56 14-09-09 14:21:7 15726 2 >1 R 14-09-09 14:07:56 14-09-09 14:42:17 15726								iB(Free/Total)	14.50 GB/14.51	ed)	ace Need	18.52 MB(S
Start Time 2014 - 09 - 09 00 : 00 : 00 Record CH 1 Image: Channel Type Add Record CH 2 Channel Type Start Time End Time Size(KB) 1 Image: Channel Type Start Time End Time Size(KB) 2 Channel Type Start Time End Time Size(KB) 1 Image: Channel Type Start Time End Time Size(KB) 2 Channel Type Start Time End Time Size(KB) 1 Image: Channel Type Start Time End Time Size(KB) 2 Image: Channel Type Start Time End Time Size(KB) 2 Image: Channel Type Start Time End Time Size(KB) 2 Image: Channel Type Start Time End Time Size(KB) 2 Image: Channel Type Start Time End Time Size(KB) 2 Image: Channel Type Start Time Image: Channel Type Size(KB) 2 Image: Channel Type Start Time Size(Channel Type Size(Channel Type) 3 Image: Channel Type											All	Туре
End Time 2014 - 09 - 09 14 : 43 : 01 File Format DAV Add Rer 2 Channel Type Start Time End Time Size(KB) 1 1 R 14-09-09 14:01:19 14-09-09 14:05:09 2088 2 1 R 14-09-09 14:07:56 14-09-09 14:42:17 15726 2 1 R 14-09-09 14:07:56 14-09-09 14:42:17 15726								Record CH	00 : 00 : 00	- 09 - 09	0 2014	Start Time
2 Channel Type Start Time End Time Size(KB) 1 I R 14-09-09 14:01:19 14-09-09 14:05:09 2088 2 I R 14-09-09 14:07:56 14-09-09 14:42:17 15726	nove	Remo	bb	Ad			DAV	File Format	14 : 43 : 01	- 09 - 09	0 2014	End Time
1 ∨ 1 R 14.09.09 14:05:09 2088 2 ∨ 1 R 14.09.09 14:07:56 14.09.09 14:42:17 15726					ize(KB)	Siz		End Time	Start Time	Туре	Channel	2
2 V 1 R 14-09-09 14:07:56 14-09-09 14:42:17 15726					088	208	14:05:09	14-09-09	14-09-09 14:01:19	R	1	1
Ba					5726	157	14:42:17	14-09-09	14-09-09 14:07:56	R		2
Bar												
	skup	Backı										

To backup recorded files, select the backup device, the channel, file start time, the end time, then click the add button so the system can begin a search for the selected files. Once the files are found, they are listed and can be selected for backup.

The system automatically calculates the capacity needed and the capacity remaining on each backup device.

Select the desired backup file format by clicking the dropdown box next to the file format field, and then select the files for backup by clicking the checkboxes next to each line item. Once the items have been selected, click the Add button to add them to the backup queue.





To start the backup, click the backup button on the bottom right of the screen. Once the backup button is clicked, the backup will begin, and the backup button turns into a stop button that allows for the cancellation of the backup. The remaining time and progress bar will show on the bottom of the screen.

.23 GB(S	Space N	eeded)	14.52 GB/14.53	GB(Free/Total)				
уре	All							
Start Time	e 💽	2014 - 09 -	22 00:00:00	Record CH				
Ind Time		2014 - 09 -	30 00 : 21 : 18	File Format	DAV	-	Add	Remove
35	Cha	nel Type	Start Time	End Time		Size(KB)		
	1	R	14-09-24 00:28:00	14-09-24	01:00:00	495090		
	√ 1		14-09-24 01:00:00	14-09-24	01:07:36	118075		
	$\bigtriangledown 1$		14-09-24 01:08:17	14-09-24	02:00:00	797263		
4	1	R	14-09-24 02:00:00	14-09-24	03:00:00	927943		
5	1	R	14-09-24 03:00:00	14-09-24	03:20:56	323584		
	1		14-09-24 23:32:40	14-09-25	00:00:00	422925		
	1		14-09-25 00:00:00	14-09-25	01:00:00	928117		
	1		14-09-25 01:00:00	14-09-25	02:00:00	928234		
	1		14-09-25 02:00:00	14-09-25	03:00:00	928174		
	1		14-09-25 03:00:00	14-09-25	04:00:00	928389		
11	1		14-09-25 04:00:00	14-09-25	05:00:00	928042		
	1		14-09-25 05:00:00	14-09-25	06:00:00	928128		
	1		14-09-25 06:00:00	14-09-25	07:00:00	928130		
14			14-09-25 07:00:00	14-09-25	08-00-00	928218		
								Stop
		5.26						

When the system completes the backup, a dialogue box appears informing the user about a successful backup.

Note:

- There are two file format options: DAV/ASF
- The file name format is usually: Channel number+Record type+Time.
- In the file name, the YDM format is Y+M+D+H+M+S. File extension name is .dav or .asf



• When you click the stop button during the burning process, the stop function is activated immediately. For example, if there are ten files, when you click stop after the system has just backed up five files, system only saves the previous 5 files in the device (but you can view ten file names).

Tip:

• During the backup process, the user can click ESC to exit the current interface to use the DVR for other functions. The system will not terminate the backup process.

Shutdown

From the Main Menu, clicking the Shutdown button will result in the appearance of a box with three options:

	SHUTDOWN		
		(Ne)	
	0	212	
Shutdown	Logout	Reboot	

The Shutdown option turns off the DVR.

The Logout option logs off the current user and shows the login screen, so another user may login. The Reboot option reboots the DVR.

Note: If the proper authorized user is not logged in, they will be prompted to enter the administrator password to shut down the DVR.

Main Menu: Information

System Information

From this screen, system information can be viewed. There are a total of 4 screens that each display different aspects of the system.

HDD Information



		(i) INFO			
🗲 🛛 Back To Main		SYSTEM	S NETWORK	EVENT	De Log
HDD INFO RECORD INFO BPS VERSION	SATA 1 O				
	1* Tyj All - 1* Read/	pe Total Space 931.40 GB Write 931.40 GB	Free Space 928.76 GB 928.76 GB	Status Normal	S.M.A.R.T. Normal

- SATA: This shows how many hard drives the system can support. \circ 1 here means the system supports a maximum of 1 HDD.
- •
- The symbol on the next row shows the status of the connected hard drive.
- 0 means that the current HDD is functioning normally.
- X means there is an error with the hard drive connection, or that there is no connected hard drive.
- ? means that the hard drive is damaged and should be replaced.
- Type: This field shows the read/write properties of the connected hard drive.
- Total space: This field shows the total capacity of the connected hard drive.
- Free space: This field shows the remaining free space on the connected hard drive.
- Status: This field shows whether the connected hard drive is working properly or not.
- SMART: This field displays SMART status for the connected hard drive.
- To access SMART information for the connected hard drive, double click the hard drive line item.

The image below shows the SMART information for the hard drive selected.



		Smai	t Info			
Port						
Modle	ST1000VX000-1CU162					
Castal Ma						
Sena Nu.	WIDSDALL					
Status	ок					
Describe:						
Smart ID	Attribute	Threshold		Worst	Status	
	Read Error Rate		117		ОК	
	Spin Up Time				OK	
	Start/Stop Count				ок	
	Reallocated Sector Count				OK	
	Seek Error Rate				ОК	
	Power On Hours Count				OK	
	Spin-up Retry Count				ОК	=
12	Power On/Off Count				ОК	
184	Unkown Attribute				OK	
187	Reported Uncorrect				ОК	
	Unkown Attribute				OK	
	High Fly Writes				OK	
	Airflow Temperature Cel				OK	
	G-Sense Error Rate				OK	
	Power-Off Retract Cycle				OK	
102	Load/Halaad Cyola Count		100	100	<u>ok</u>	

Record Info

This screen is used to view information on recorded video, specifically recording start time and end time for all media based on each hard drive.

		🧃 INFO		
🗲 Back To Main		SYSTEM	💿 NETWORK 🛛 👔 EVI	ENT 💼 LOG
HDD INFO RECORD INFO BPS VERSION	SATA 1 O			
	All 1*	Start Time 2014-09-05 10:24:20 2014-09-05 10:24:20 2014-09-09 14:01:19	End Time 2014-09-09 16:00:30 2014-09-05 16:20:16 2014-09-09 16:00:30	



BPS

On this screen, current video data stream information can be viewed, as well as resolution used for each camera. All data is measured in Kilobytes per Second (KB/s).

		i INFO		
🗲 Back To Main		SYSTEM	S NETWORK	/ENT 💼 LOG
HDD INFO RECORD INFO	Channel Kb/S Re 1 2052 7:	solution Wave		
BPS		20P		
VERSION		20P		
		20P		
	5 61 7	20P]		
	6 61 7:	20P		
	7 60 7:	20P		
	8 61 7:	20P <u> </u>		

Version

This screen shows version information for the DVR. Here information such as device model, channels, system version, build date, web interface version, and serial number can be found.





Network

This screen is used to display network information. It consists of 3 screens, Online Users, Load, and Test.

Online Users

This screen is used to monitor and manage users who are online. With the proper system access level, users can be disconnected or blocked. The system refreshes this list automatically every five seconds.



Load

This screen shows the amount of bandwidth consumed on the network by the DVR. The connection status is shown as offline if the DVR is disconnected from the internet. The bottom panel is a graph that shows the fluctuation in the send and receive speed.





<u>Test</u>

This screen is used to test the network connection for the DVR. It can send data to a specific IP to see if it can transmit data to it.

		🧃 INFO			
Back To Main		SYSTEM	NETWORK	EVENT	🗊 LOG
ONLINE USERS LOAD TEST	Network Test Destination IP Test Result Network Sniffer Par Device Name Address Name LAN1	скеt Васкир IP 192.168.1.2	▼ Refresh Sniffer Packet Size OKB	Test B Sniffer Packe	rowse t Backup

Below is an explanation of each of the fields:

- Destination IP: Input a valid IPV4 address or domain name to test connection with.
- Test: This button is clicked to test the connection with the destination IP address. The test results can display average delay and packet loss rate, and network status can be viewed.
- OK means that the connection works, bad means the connection is spotty, and no connection means that no connection was made.
- Network Sniffer Backup: To use the network sniffer feature, insert a USB2.0 network sniffer device and click the Refresh button. You can view the device on the following column. You can use the dropdown list to select the peripheral device. Click the Browse button to select the path.

You can view all connected network adapter names (including Ethernet, PPPoE, and WIFI). You can click the button on the right panel to begin the Sniffer. Click the grey stop button to stop. Please note the system cannot sniff several network adapters at the same time.

After the Sniffer begins, you can exit to implement corresponding network operation such as web monitor login.

Please go back to Sniffer interface and click it is stop the Sniffer. The system can save the packets to the specified path. The file is named after "Network adapter name+time". You can use software such as Wireshark to open the packets on the PC for a professional engineer to solve advanced network problems.

Tip: During the network sniffer process, the user can click ESC to exit the current interface to use the DVR for other functions. The system will not terminate the backup process.



Event

This screen is used to display device and channel status.

			(i) INFC)			
🗲 🛛 Back To Main			SYSTEM		K 💼 EVENT	Û	LOG
EVENT	Device Status No HDD Disk Error Disk No Space Net Disconnection IP Conflict MAC Conflict Channel Status Local Alarm Video Loss 2 Mask Motion 1 Refresh	3 4	5 6 7	vice(NIC No.:1,HDI nannel(CH:8,Local A) No.:1)		

Log

On this screen, you can view the system log file.

	(j INFO
🗧 Back To Main	💭 SYSTEM 💮 NETWORK 📑 EVENT 🍵 LOG
LOG	Type All Start Time 2014 - 09 - 09 00 : 00 : 00 End Time 2014 - 09 - 10 00 : 00 : 00
	69 Log Time Event * 58 2014-09-09 15:44:10 Backup[2014-09-09 15:44:10] \$ 59 2014-09-09 15:44:10 An error occured during backup[2014-09-09 15:44:10] \$ 60 2014-09-09 15:44:10 Backup[2014-09-09 15:44:10] \$ \$ 61 2014-09-09 15:44:10 An error occured during backup[2014-09-09 15:44:10] \$ \$ 62 2014-09-09 15:44:30 An error occured during backup[2014-09-09 15:44:30] \$ \$ 63 2014-09-09 15:44:30 Backup[2014-09-09 15:44:30] \$ \$ 64 2014-09-09 15:44:50 Backup[2014-09-09 15:44:50] \$ \$ 65 2014-09-09 15:44:50 Backup[2014-09-09 15:44:50] \$ \$ 66 2014-09-09 15:45:30 Backup[2014-09-09 15:45:30] \$ \$ 67 2014-09-09 15:45:30 An error occured during backup[2014-09-09 15:45:30] \$ 68 2014-09-09 15:57:49 User logged out <admin> \$ 69 2014-09-09 15:58:49 User logged in<admin> \$ </admin></admin>
	Backup Clear 1/1 Jump to 1 GO



The system lists the following information:

System Operation Configuration Operation Data Management Alarm Events Record Operation Account Manager Log Clear File Operation Reboot Type

Note:

The system can only show a maximum of 100 logs on one page.

The system can save a maximum of 1024 log files.

Using the fields at the top of the page, the user can search for log items, and view details for each one. Start Time and End Time allow the user to narrow the range in which a log item resides, and the Type dropdown box allows for filtering on what type of event the user is looking for. Once the parameters are set, click Search to show log items that match the criteria. Clicking on a line item then clicking the Details button (or double clicking the line item) shows the detail screen:

	Detailed Information			
Log Time Log Type	2014-09-09 15:57:49 User Management>User logged out			
User				
Previous Next		ОК		

The backup button allows a user to backup log files. Once the backup button is clicked, the system will prompt the user to select a folder to save the log data to.

Main Menu: Settings

This set of menu items allows the user to change settings for a variety of functions.


Image

Image Settings

		🧟 SETTING			
🗧 Back To Main	GAMERA	NETWORK	EVENT	SYSTEM	TTORAGE
IMAGE ENCODE CHANNEL NAME CHANNEL TYPE	Channel 1 Saturation	• 50			
	Contrast Sharpness	50 50 1			
	Default		Save	Cancel	Apply

This screen allows the user to adjust the image settings for each channel. See below for a screenshot of the image settings screen:

Below is an explanation for each of the fields on the Image Settings screen:

- Channel: This dropdown box allows the user to select a channel from the dropdown list to modify.
- Period: This dropdown box allows the user to select a period of time for which to modify the image settings. The user can configure up to 2 periods to encompass the entire 24 hours in the day. Click the checkbox to enable the period image settings changes.
- Saturation: This slider is used to adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50. The larger the number, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not be clear if the value is too low. The recommended value ranges from 40 to 60.
- Brightness: This slider is used to adjust monitor window brightness. The value ranges from 0 to 100. The default value is 50. The larger the number, the brighter the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high. The recommended value ranges from 40 to 60.
- Contrast: This slider is used to adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50. The larger the number is, the higher the contrast is. You can use this function when the whole video brightness is OK but the contrast is not correct. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over expose. The recommended value ranges from 40 to 60.



• Sharpness: This slider is used to adjust the sharpness of the video. The value ranges from 0 to 100. The larger the value is, the clearer the edges are and vice versa. Note: The higher the value, the higher likelihood of picture noise occurring. The default value is 50 and the recommended value ranges from 40 to 60.

To revert to default settings, click the Default button near the bottom left hand corner. To confirm settings, click the Save button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner. After completing the setup please click the save button to go back to the previous menu.

Encode

This tab is used to set the video encoding settings for each channel. See below for a screenshot of the tab:

		ର୍ଦ୍ଧ SE	ITING				
Back To Main	GAMERA	🛞 NETWO	RK	EVENT	📕 🛤 S	YSTEM	STORAGE
IMAGE ENCODE	Encode Si	napshot	Overlay	1			
CHANNEL NAME	Channel						
CHANNEL TYPE	Туре	Regular		Extra Stream1			
	Compression	H.264		H.264			
	Resolution	720P		CIF			
	Frame Rate(FPS)	25					
	Bit Rate Type	CBR		CBR			
	l Frame Interval	1 S		15			
	Bit Rate(Kb/S)	2048 -		160 👻			
	Reference Bit Rate	1536-4096Kb/S		40-256Kb/S			
	Audio/Video			- 7			
	Audio Format	G711a		Audio Source	NORMAL		
	Default					Connel	Annha
	Default	лру		58	146	Gancer	Арріу

Below is an explanation of the fields on the Encode settings screen:

- Channel: This dropdown box allows the user to select a channel from the dropdown list to modify.
- Type: This dropdown box allows the user to select one of 3 channel types: regular, motion detect, and alarm. Various encode parameters can be for different record types.
- Compression: This dropdown box allows the user to select a compression protocol. The system supports H.264 and MJPEG video compression protocols.
- Resolution: This dropdown box allows the user to set the resolution. The system supports various resolutions and they can be selected from this dropdown list.



- Frame Rate: This dropdown box allows the user to select a frame rate. Frame rate settings range from 1f/s to 25f/s in NTSC mode and 1f/s to 30f/s in PAL mode.
- Bit Rate Type: This dropdown box allows the user to select a bit rate type. The system supports two-bit rate types: CBR and VBR. In VBR mode, video quality can be set.
- Video/Audio: This checkbox allows the user to enable or disable Video/Audio. Audio formal can be selected as well.

Snapshot

This tab allows for the selection of snapshot settings. See below for a screenshot of the Snapshot tab:

		🙊 SE	TTING			
🗲 Back To Main	U CAMERA	💿 NETW	ork 📷	EVENT	SYSTEM	STORAGE
IMAGE	Encode Sn	apshot	Overlay			
ENCODE CHANNEL NAME	Snap Number	1	✓ /Time			
CHANNEL TYPE	Channel					
	Made	Timing				
	Image Size	CIF				
	Image Quality					
	Default Co	1 SPL		OK	Cancel	Арріу

Below is a list of snapshot settings that can be modified on this screen:

- Snapshot Mode: This dropdown box allows the user to select a snapshot mode. There are two snapshot modes: regular and trigger.
- Regular: Based on timing and happens at a set interval.
- Trigger: Based on motion detection or alarm activation.
- Image Size: This dropdown box allows the user to select an image size.



- There are 4 settings: D1, HD1, 2CIF, and CIF.
- Image Quality: This dropdown box allows the user to select image quality. Quality is adjusted on a scale of 110.
- Snapshot Frequency: This dropdown allows the user to select the snapshot interval. The value ranges from 1 to 7 seconds. The maximum setting for a customized interval is 3600s/picture.

Overlay

The overlay tab allows the user to change overlay settings for each channel. Below is a screenshot of the overlay tab:

	& SETTING
🗲 Back To Main	CAMERA 💿 NETWORK 🕅 EVENT 📕 SYSTEM 💭 STORAGE
IMAGE ENCODE	Encode Snapshot Overlay
CHANNEL NAME	Cover-Area Preview Monitor Set
	Time Display Vonitor Set Channel Display Vonitor Set
(Default Copy Save Cancel Apply
O AMCREST	

Below is an explanation of fields that can be modified on the overlay settings screen:

- Channel: This dropdown box allows the user to select a channel from the dropdown list to modify.
- Cover Area: This button allows the user to set the cover area. Drag the mouse to set the proper section size. The system supports a maximum of 4 zones in one channel.
- Preview/Monitor: There are two types of cover areas
- Preview means the privacy mask zone cannot be viewed by user when system is in preview status.



- Monitor means the privacy mask zone cannot be viewed by the user when system is in monitor status.
- Time Display: This button allows the user to select whether the system displays time on playback video. Clicking the set button and allows the user to drag the timestamp to the desired position on the screen.
- Channel Display: This button allows the user to select whether the system displays channel number on playback video. Clicking the set button allows the user to drag the title to the corresponding position on the screen.

Channel Name

This screen is used to modify the channel names. Each field supports a maximum of 31 characters.

		& SETTING	1	
🗧 Back To Main	- CAMERA	S NETWORK	EVENT	SYSTEM 📑 STORAGE
IMAGE ENCODE CHANNEL NAME CHANNEL TYPE	CAM 1 C CAM 3 C CAM 5 C CAM 7 C	2AM 1 2AM 3 2AM 5 3AM 7	CAM 2 CAM 4 CAM 6 CAM 8	CAM 2 CAM 4 CAM 6 CAM 8 CAM 8

To revert to default settings, click the Default button near the bottom left hand corner. To confirm settings, click the Save button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner. After completing the setup please click the save button to go back to the previous menu.

Channel Type

This screen is used to set the channel type. The supported channel types are coaxial, UTP, and IP.



		ରୁ SETTING		
🗲 Back To Main	GAMERA	RETWORK	💼 event 🛛 📕 syst	EM 💭 STORAGE
IMAGE ENCODE CHANNEL NAME CHANNEL TYPE	Channel 1 2 3 4		HDCM	
	Default		Save Ca	ncel Apply
O AMCREST				

Network

This menu controls all network related functions for the DVR and governs how the DVR interacts with the network it is connected to.

TCP/IP

TCP/IP stands for Transmission Control Protocol/Internet Protocol and it is the language/protocol that allows communication between internet connected devices, whether on a local network, or a on the Internet at large. This screen allows for TCP/IP settings to be modified for the DVR to establish connection to the network.

Below is a screenshot of the TCP/IP settings screen:



		& SETTING	
🗲 Back To Main	GAMERA		EVENT 📕 SYSTEM 📮 STORAGE
TCP/IP CONNECTION PPPoE DDNS IP FILTER EMAIL FTP UPnP MULTICAST	CP/IP DNNECTION PPOE DNS FILTER MAIL TP PnP ULTICAST EGISTER ARM CENTER 2P Default Default	IPv4 IPv4 9C:8E:CD:0D:AF:8D STATIC DHCP 10 0 29 96 255 0 0 0 0 10 0 0 10 10 8 8 8 8 8	Test
REGISTER ALARM CENTER P2P		1500 LAN Download	Save Cancel Apply
📀 A M C R E S T			

Below is an explanation of the fields on the TCP/IP settings screen:

- IP Version: This dropdown allows the user to select the IP version. The two options are IPV4 and IPV6.
- MAC address: This field shows the DVR's MAC address, which is unique to this device. This number is read-only and is used to access a local area network (LAN).
- Static vs DHCP: This check box allows the user to choose between a static IP address, and a dynamic IP address. DHCP stands for Dynamic Host Configuration Protocol, and this enables the DVR to automatically obtain an IP address from another network device such as a server or more commonly, a router. When the DHCP function is enabled, the user cannot modify the IP address, Subnet Mask, or Gateway, as these values are obtained from the DHCP function. To view the current IP address, DHCP needs to be disabled. Note: When PPPoE is enabled, modification of IP Address, Subnet Mask, and Gateway becomes prohibited.
- IP Address: This field allows the user to enter a custom IP address.
- Subnet Mask: This field allows the user to enter a custom subnet mask. The default subnet mask is 255.255.255.0. This number is used to determine which subnetwork the IP address belongs to.
- Default Gateway: This field allows the user to enter the default gateway for the network. The default gateway should be on the same IP subnet as the DVR's IP. That is to say, the specified length of the subnet prefix should have the same string. For example, if the IP address is 192.168.0.25, the default gateway should start with 192.168.0.X. The default gateway is usually the IP address of the router.
- MTU: MTU stands for Maximum Transmission Unit. This field allows the user to set the MTU value of the network adapter. The value ranges from 1280-7200 bytes. The default value is 1500 bytes. Please note MTU modification may result in network adapter reboot and the network turning off. That is to say, MTU modification can affect the current network service. The system may pop up a dialog box to confirm setup when the MTU value is changed. Click the OK button to confirm current value and reboot or can click the Cancel button to terminate the current modification. Before the modification, you can check the MTU of the gateway; the MTU of the DVR should be the



same or lower than the MTU of the gateway. This way, packets can be reduced, and the network transmission efficiency be enhanced. The following MTU values are for reference only.

• 1500: Ethernet information packet maximum value and it is also the default value. It is the typical setup when there is no PPPoE or VPN. It is the default setup of some routers, switches, and network adapters.

1492: Recommend value for PPPoE1468: Recommend value for DHCP.Preferred DNS server: This field allows the user to enter the DNS server IP address.

- Alternate DNS server: This field allows the user to enter the Alternate DNS server IP address.
- LAN download: This checkbox allows the user to enable the user to process the downloaded data first. The download speed is 1.5X or 2.0X compared to the normal streaming speed.

To revert to default settings, click the Default button near the bottom left hand corner. To confirm settings, click the Save button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner. After completing the setup please click the save button to go back to the previous menu.

Connection

This screen allows users to configure port connections. It is important that the system is rebooted if any changes are made to the settings on this screen. Also, ensure that port values do not conflict. Below is a screenshot of the connection screen:

		& SETTIN	IG		
🔄 Back To Main	👦 CAMERA			SYSTEM	I STORAGE
TCP/IP CONNECTION PPPoE DDNS IP FILTER EMAIL FTP UPnP MULTICAST REGISTER ALARM CENTER P2P	Max Connection TCP Port UDP Port HTTP Port HTTPS Port RTSP Port	128 37777 37778 80 443 554	(0 -128) (1025 - 65535) (1025 - 65535) (1 - 65535) (1 - 65535)	able	
⊙ AMCREST			Save	e Cancel	Арріу

Below is an explanation of the fields on the Connection settings screen:



- Maximum Connection: This field represents the maximum number of users that can be connected to the DVR at the same time. The maximum number of users the DVR can support at one time is 128.
- TCP Port: This field designates the Transmission Control Protocol (TCP) port number. The default value is 37777.
- UDP Port: This field designates the User Datagram Protocol (UDP) port number. The default value is 37778.
- HTTP Port: This field designates the Hypertext Transfer Protocol (HTTP) port number. The default value is 80.
- HTTPS Port: This field designates the Hypertext Transfer Protocol Secure (HTTPS) port number. The default value is 443.
- RTSP Port: This field designates the Real Time Streaming Protocol (RTSP) port number. The default value is 554.

PPPoE

PPPoE stands for Point-to-Point Protocol over Ethernet. This screen allows users to configure PPPoE connections. Below is a screenshot of the PPPoE screen:

				🕸 SE	TTIN	G					
🔄 Back To Main		ERA	1 🐌	VETW	ORK				SYSTEM	💷 ST	ORAGE
TCP/IP CONNECTION	🗹 Enable										
PPPoE	User Name	user(@isp.co	om							
DDNS	Password										
IP FILTER	IP Address	0	. 0	. 0	. 1	0					
EMAIL		0	. 0	. 0	. 1	0					
FTP											
UPnP											
MULTICAST											
REGISTER											
P2P											
	Default						S	ave	Cancel	Ар	ply
⊙ ∧ M C R E S T											

To revert to default settings, click the Default button near the bottom left hand corner. To copy settings to another channel, click the Copy button near the bottom right hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner.



To apply the settings, click the Apply button near the bottom right hand corner. After completing the setup please click the save button to go back to the previous menu.

DDNS

DDNS stands for Dynamic Domain Name Server. This technology is used to automatically update name servers in real time to help the DVR maintain a persistent address despite changes in location or configuration. What this means is that even when the DVR is restarted, moved, or reconfigured, it can keep the same IP address, thus allowing remote users uninterrupted access to the DVR, rather than having to request a new IP address to use for remote access anytime a change is made.

To use this feature, users will need to setup an account with a DDNS service. The DVR supports a variety of DDNS services such as AmcrestDDNS, NO-IP DDNS, CN99 DDNS, Dyndns DDNS, and private DDNS services. Based on which service is selected, different options may show on this screen. For purposes of this guide, AmcrestDDNS will be used. To use AmcrestDDNS, go to http://www.AmcrestDDNS.com and register for an account. If the account is inactive for a year, AmcrestDDNS may take back the domain name, but an email will be sent beforehand as a warning.

		& SETTING	
🔄 Back To Main	- CAMERA	💿 NETWORK 🛛 🖬 EVENT 🛛 🛤 SYSTEM 🔍 STORAGI	3
TCP/IP CONNECTION	🖌 Enable		
PPPoE	DDNS Type	AMCREST DDNS +	
DDNS	Domain Name	9002A9C48FD2 .amcrestddns.com	
IP FILTER	MAC Address	9C:8E:CD:0D:AF:8D	
EMAIL FTP UPnP MULTICAST REGISTER ALARM CENTER P2P	Internet Status	Disconnected	
	Default	OK Cancel Apply	
O AMCREST			

Below is a screenshot of the DDNS settings screen, configured to AmcrestDDNS:

Below is an explanation of the fields that can be configured on DDNS settings screen when set to AmcrestDDNS type.

Fields with a '*' next to them appear when AmcrestDDNS is selected:



- Enable: This checkbox allows the user to enable DDNS on the DVR.
- DDNS Type: This dropdown box allows the user to select which DDNS service is being used on the DVR.
- *Server IP: This field allows the user to enter the IP address for the server used by the specific DDNS service. For AmcrestDDNS, the default address is www.AmcrestDDNS.com
- *Domain Mode: This radio button allows the user to choose a custom domain names, or the default one generated by the AmcrestDDNS system.
- *Domain Name: This field allows the user to enter the domain name from the AmcrestDDNS service.
- *Email Address: This field allows the user to enter the email address associated with the AmcrestDDNS account.

To revert to default settings, click the Default button near the bottom left hand corner. To test the current settings, click Test near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

IP Filter

This screen allows for the filtering of IP addresses, either blocking them, or granting them access to the DVR. This feature helps make the DVR more secure by limiting remote access only to approved users. Below is a screenshot of the IP Filter screen:

		& SETTING	à		
🔄 Back To Main	🖶 CAMERA			SYSTEM	STORAGE
TCP/IP	Access Right S	Sync Time			
CONNECTION PPPoE	🖌 Enable 🔹	Trusted Sites	Blocked Sites		
DDNS	Туре Т	rusted Sites 🔻			
IP FILTER	Start Address			Add IP Address	
EMAIL	End Address			Add IP Segment	
UPnP	Start Addı	ress	End Address	Edit	Delete
MULTICAST					
REGISTER					
ALARM CENTER					
P2P					
	Default		Save	Cancel	Apply
⊙ ∧ M C R E S T					

Below is an explanation of fields on the IP Filter settings screen:

- Enable: This checkbox allows the user to enable the IP Filter feature. Many of the other fields below cannot be edited if this checkbox is not checked.
- Type: This dropdown box allows the user to select an IP address type. There are two types of IP addresses that can be used by this feature. Only one of them can be activated at a time.
- Trusted Sites: This setting allows the user to enter trusted IP addresses. All other addresses will be blocked.



- o Blocked Sites: This setting allows all IP addresses, but blocks the ones that are specified.
- Start Address/End Address: This field allows the user to enter IP addresses, and depending on which button is clicked, it can either add a single IP address, or a section of IP addresses to the IP Filter list.
- The DVR can support a maximum of 64 IP addresses on this list.
- Newly added IP addresses are enabled by default but can be disabled or added to the block list. If the system is in trusted sites mode, select the IP address, and delete it to remove it from the list. If the system is in blocked sites mode, add the IP address to the blocked sites list to prevent that IP from getting access.
 The IP address column supports both IPV4 and IPV6 IP address formats. For IPV6 addresses, the system can optimize them to make the addresses more readable.
- aa:0000: 00: 00aa: 00aa: 00aa: 00aa: 00aa can be optimized to aa:: aa: aa: aa: aa: aa: aa
 IP addresses automatically have spaces before or after the address removed as they are entered.
 For adding a single IP, enter it in the Start Address field. For entering in a section of IP addresses, enter in IP addresses in both fields, ensuring that the larger number IP address is in the End Address field.

Note: The system also supports the adding of MAC addresses.

• Delete: This button allows a user to remove a specific IP address from the IP Filter list. Edit: This button allows a user to edit start or end addresses.

To revert to default settings, click the Default button near the bottom left hand corner. To test the current settings, click Test near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Email

This screen allows for the configuring of email settings to permit the DVR to send emails when the connected cameras or alarms are triggered. Below is a screenshot of the email settings screen:

	& SETTING
🔄 Back To Main	🤝 CAMERA 🔷 NETWORK 🖆 EVENT 🗐 SYSTEM 💷 STORAGE
TCP/IP CONNECTION	Enable
PPP₀E DDNS	SMTP Server MailServer Port 25
IP FILTER EMAIL	User Name Password
FTP UPnP	Receiver Sender
MULTICAST	Subject XVR ALERT Attachment 🗹
ALARM CENTER	Interval 120 sec.
F2F	Interval 60 min.
	Default Test Save Cancel Apply
⊙ ∧ M C R E S T	



Below is an explanation of the fields on the Email settings screen:

- Enable: This checkbox allows the user to enable the email feature.
- SMTP Server: SMTP stands for Simple Mail Transfer Protocol. This field allows the user to enter the SMTP server used by the email service.
- Port: This field allows the user to enter the port that corresponds to the selected SMTP server.
- User Name: This field allows the user to enter the username used to login to the selected SMTP server.
- Password: This field allows the user to enter the password associated with the SMTP username.
- Sender: This field allows the user to enter the sender email address. This email address will be the one that sends out all emails pertaining to the alerts and alarm emails sent by the DVR.
- Receiver: This field allows the user to enter the receiver email address. These email addresses are the ones that will receive any emails pertaining to alert and alarm emails sent by the DVR. Up to 3 email addresses can be entered in this field.
- Subject: This field allows the user to define the subject line of the email that is sent to the receivers.
- Attachment: This checkbox allows the user to enable the attachment of screenshots with emails.
- Encrypt Type: This dropdown box allows the user to select an encryption type. There are two types of email encryption that are available
- SSL: Secure Socket Layer
- TLS: Transport Layer Security Event Interval: This field allows the user to define, in seconds, how many events can be triggered concurrently.
- Health Enable: This checkbox allows the user to enable the function that causes the system to send out a test email to ensure if the connection is OK or not.
- Interval: This field allows the user to define, in minutes, how often emails can be sent by the system. This helps to curb heavy load on the email server when multiple events are occurring.

To revert to default settings, click the Default button near the bottom left hand corner. To test the current settings, click Test near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

FTP

FTP stands for File Transfer Protocol. This protocol allows for remote uploading of files to a server. This feature requires the use of an FTP tool on a computer to enable the use of FTP features on the DVR.

Once an FTP tool has been acquired, installed, and configured to allow read, write, append, and delete access, then the DVR can be configured to use FTP. Below is a screenshot of the FTP menu screen:



		& SETTING	à		
🗲 Back To Main	🐨 CAMERA 🗾			SYSTEM	STORAGE
TCP/IP CONNECTION	🗹 Enable				
PPPoE DDNS	Host IP User Name	0.0.	0.0 Po	1 21	
IP FILTER EMAIL	Password Remote Directory		Anonymous	; M	
FTP UPnP	Image Upload Interval	2	sec.		
MULTICAST REGISTER	Channel	1			
ALARM CENTER P2P	Week Day Period 1	Wed 00:00 -:	← Alarm 24 : 00	MD Regula	
	Period 2	00:00 - :	24 : 00		
	Default Test		Save	Cancel	Apply
⊙ ∧ M C R E S T					

Below is an explanation of the fields on the FTP settings screen:

- Enable: This checkbox allows the user to enable the FTP feature for the DVR.
- Server IP: This field allows the user to enter the FTP server IP address and port.
- User Name: This field allows the user to enter the FTP username.
- Password: This field allows the user to enter the FTP server password. The checkbox next to this field enables anonymous access to the FTP.
- Remote Directory: This field allows the user to designate which folder the DVR will upload files to.
- File Length: This field allows the user to dictate how large upload files can be.
- Image Upload Interval: This field allows the user to define, in seconds, how often images can be uploaded to the FTP server.
- Channel: This field allows the user to pick a channel to set FTP settings for.
- Weekday: This field allows the user to pick a day of the week to set FTP settings for. Time Period 1: This field allows the user to specify a time period and what types of files to upload (Alarm, Motion, Regular).
- Time Period 2: This field allows the user to specify a time period and what types of files to upload (Alarm, Motion, Regular).

To revert to default settings, click the Default button near the bottom left hand corner. To test the current settings, click Test near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.



<u>UPnP</u>

UPnP stands for Universal Plug and Play, and it is a protocol used to easily connect devices to the internet. In the case of this DVR, it allows the DVR to connect to the router in an easy manner to quickly allow for remote connection. Below is a screenshot of the UPnP settings screen:

		& SETTING			
🔄 Back To Main	👦 CAMERA			SYSTEM	💭 STORAGE
TCP/IP CONNECTION PPPoE DDNS IP FILTER	PAT En Status LAN IP 0 WAN IP 0 PAT Table	able Disable . 0 . 0 . 0 . 0 . 0 . 0			
EMAIL FTP UPnP MULTICAST REGISTER ALARM CENTER P2P	7 Service 1 HTTP 2 TCP 3 UDP 4 RTSP 5 RTSP 6 SNMP 7 HTTPS	Name Pro TCI UDI UDI CI UDI CI UDI CI	tocol Int.Port 80 37777 37778 554 554 554 554 554 161 443	Ext.Port 80 37777 37778 554 554 554 161 443	Edit II II II II II II
⊙ AMCREST	Default		Save	e Cancel	Apply

Below is an explanation of the fields in the UPnP settings screen:

- PAT: PAT stands for Port Address Translation, and it is something that the UPnP protocol handles. This checkbox allows the user to enable UPnP on the device.
- UPnP Status: This field shows the UPnP status and has two options:
- Unknown: This means that UPnP is offline.
- Successful: This means that UPnP is working.
- Router LAN IP: This field allows the user to enter the IP address of the router that the DVR is trying to connect to.
- WAN IP: This field is where the DVR Wide Area Network (WAN) IP is populated. This IP address is what is used to remotely access the DVR through web access.
 PAT Table: This table is used to show how the ports for each protocol listed below have been remapped by the
- UPnP protocol.The first column shows the order of the services.
- The second column shows the name of the services. To edit this, double click on the service line item.
- The third column shows the name of the protocol used by that service. To edit this, double click on the service line item.
- The fourth column shows the Internal Port used by that service. To edit this, double click on the service line item.
- The fifth column shows the External Port used by that service. To edit this, double click on the service line item.



To revert to default settings, click the Default button near the bottom left hand corner. To add a service to the list, click Add Service near the bottom left hand corner. To delete a service, click Delete near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

To view a video on how to remotely access your DVR using UPnP, go to <u>http://amcrest.com/videos</u> and view the video titled "How to Gain Remote Access to Your HDCVI DVR with Universal Plug and Play".



Multicast

Multicast is a feature that enables the DVR to broadcast its live view to multiple computers on the same network. Below is a screenshot of the multicast screen:

		🕸 SETTING			
🔄 Back To Main	🛡 CAMERA			SYSTEM	STORAGE
TCP/IP CONNECTION	🖌 Enable				
PPPoE DDNS IP FILTER EMAIL FTP	IP Address 239 Port 36666	. 255 . 42 . 42 5			
UPnP MULTICAST REGISTER ALARM CENTER P2P					
	Default		Save	Cancel	Apply
○ AMCREST					

Below is an explanation of the fields in the Multicast settings screen:

- Enable: This checkbox allows the user to enable the Multicast feature for the DVR.
- IP Address: This field allows the user to enter the multicast IP address.
- Port: This field allows the user to enter the port number for the multicast IP address.

For more information on how to configure multicast, see the information below.

Multicast IP Address Range (IPV4): 224.0.0.0 through 239.255.255.255



Well-known IPv6 multicast addresses						
Address	Description					
ff02::1	All nodes on the local network segment					
ff02::2	All routers on the local network segment					
ff02::5	OSPFv3 All SPF routers					
ff02::6	OSPFv3 All DR routers					
ff02::8	IS-IS for IPv6 routers					
ff02::9	RIP routers					
ff02::a	EIGRP routers					
ff02::d	PIM routers					
ff02::16	MLDv2 reports (defined in RFC 3810)					
ff02::1:2	All DHCP servers and relay agents on the local network segment (defined in RFC 3315)					
ff02::1:3	All LLMNR hosts on the local network segment (defined in RFC 4795)					
ff05::1:3	All DHCP servers on the local network site (defined in RFC 3315)					
ff0x::c	Simple Service Discovery Protocol					
ff0x::fb	Multicast DNS					
ff0x::101	Network Time Protocol					
ff0x::108	Network Information Service					
ff0x::181	Precision Time Protocol (PTP) version 2 messages (Sync, Announce, etc.) except peer delay measurement					
ff02::6b	Precision Time Protocol (PTP) version 2 peer delay measurement messages					
ff0x::114	Used for experiments					

To revert to default settings, click the Default button near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Register

The register feature allows the DVR to register itself with a specified proxy, so that the DVR can be remotely accessed via a proxy. A proxy is a computer server that acts as an intermediary between client computers that are seeking resources from a server. Below is a screenshot of the Register settings screen:



		la SETTING			
🔄 Back To Main	🚽 CAMERA			SYSTEM	STORAGE
TCP/IP CONNECTION PPPoE	Enable No.	1 *			
DDNS IP FILTER EMAIL FTP	Server IP Address Port ID	0.0.0.0 8000 0			
UPnP MULTICAST REGISTER ALARM CENTER P2P					
O AMCREST	Default		Save	Cancel	Apply

Below is an explanation of the fields on the Register settings screen:

- Enable: This checkbox allows the user to enable the Register feature for the DVR.
- No: This dropdown box allows the user to select the proxy number. Currently the DVR can only configure one proxy.
- Server IP Address: This field allows the user to enter the proxy server IP address.
- Port: This field allows the user to enter the proxy port number.
- ID: This field allows the user to enter the proxy ID number.

Note: Do not enter a network default port for this port number. It may result in a port conflict.

To revert to default settings, click the Default button near the bottom left hand corner. To confirm settings, click the Save button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Alarm Center

The alarm center feature is used to allow users to connect the DVR to their alarm server, so the server can receive a notice when certain events happen. One common use for the alarm center is to send daily reports on the status of the DVR's connection to the network. Below is a screenshot of the Alarm Center settings screen:



		& SETTING	i.		
🗲 Back To Main	T CAMERA			SYSTEM	STORAGE
TCP/IP CONNECTION PPPoE DDNS IP FILTER EMAIL FTP UPnP MULTICAST REGISTER ALARM CENTER P2P	 ✓ Enable Protocol Type Al Host IP Port 1 Self-report Time Everyday 	LARM CENTER 10 . 1 . 0 . ▼ at 08:00	2		
	Default		Sav	e Cancel	Apply
⊙ AMCREST					

Below is an explanation of the fields on the Alarm Center settings screen:

- Enable: This checkbox allows the user to enable the Alarm Center feature for the DVR.
- Protocol Type: This field allows the user to select which protocol type they want to use for the alarm. Currently, only the private protocol type is available.
- Server IP: This field allows the user to enter the IP address of the alarm server.
- Port: This field allows the user to enter the port number of the alarm server.
- Self-Report Time: This field allows the user to enter a time of the day when they want to receive a report about the DVR's connection to the network each day.

To revert to default settings, click the Default button near the bottom left hand corner. To confirm settings, click the Save button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

<u>P2P</u>

The P2P settings screen is where users can use a QR code to connect their smartphone or tablet to the DVR. The HDCVI uses an app called Amcrest View, and it is available on both iOS and Android. Below is a screenshot of the P2P settings screen:





Below is an explanation of the fields on the P2P settings screen:

- Enable: This checkbox allows the user to enable the P2P feature for the DVR.
- Status: This field shows the status of the P2P connection. Once connected using the app, this field should display the word Online.
- Cell Phone Client: This is the unique QR code is used as a quick reference point for downloading the Amcrest View Pro app onto your mobile device.
- Device SN: This is the unique QR Code associated with your DVR's serial number. Use this as a quick reference point when setting up your DVR on the Amcrest View Pro app.

To confirm settings, click the Save button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Event

Video Detect

Main Menu -> Settings -> Event -> Video Detect opens the Detection interface. Here there are 3 options, each representing a detection type: Motion Detection, Video Loss, and Tampering.

Tips:

The motion detection icon will be present if the motion detection alarm has been triggered on the current channel.



To set the motion detection region, click and drag the mouse over the region desired. Once the region has been set, click the OK button to save the current region setup, and right click on the mouse to exit the motion detection interface.

Motion Detect

The motion detection settings screen is where motion detection can be setup for each individual channel. Based on the active motion detection region, the DVR can generate a motion detection alarm when a moving signal is detected in a specified area. Below is a screenshot of the motion detection settings screen:

		& SETTING		
🗲 Back To Main	🖶 CAMERA		SYSTEM	STORAGE
	Motion Detect Video L	oss Tampering		
	Channel	1 - Region	Set	
	Enable			
	Period	Set Anti-dith	ier 5	sec.
	Show Message	Alarm Upload Send	Email	
	Record Channel	234		
	PTZ Activation	Set Delay	10	sec.
	Tour	234		
	Snapshot	234		
	Buzzer	Log		
	Voice Prompts	File Name None	-	
	Default Copy	Test Sa	ive Cancel	Apply
📀 A M C R E S T				

Below is a description of the fields on the Motion Detection settings page:

- **Channel:** The channel dropdown menu is used to select which channel you would like to use to set your motion detection.
- **Enable:** This checkbox allows the user to enable the motion detection function for a specific channel. To select a channel, click on the drop-down menu provided on the right.
- **Period:** This setup button takes the user to the motion detection period settings screen. Below is a screenshot of the motion detection period settings screen.





- Click and drag on the yellow bars to specify time zones for motion detection. To edit multiple days at once, either click the checkboxes next to the names, or click the checkbox next to All to edit all the days at once. Once the checkbox is clicked, press save to save and apply your detection settings. Click Cancel to undo any changes and return to the motion detection settings screen. Click **Default** to use the default settings.
- To specify time zones in greater detail for each day, click the Setup button to the left of the time bar, and the Time Period setup screen will appear. The screenshot below shows the Time Period settings screen:

				Period
Current D	ate: Sunda	iy		
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 属	🛛 Monday 🛃 Tu	uesday	🕑 Wednesday 🕗 Thursday 🕗 Friday 🕗 Saturday
				ОК



- The system allows for the configuration of up to 6 different time periods. Click the checkbox to the left of the time period to enable that time period. Click the text next to each period to edit the time period. To copy time periods, click the checkboxes next to the days of the week that you'd like to copy the settings to. Once finished on this screen, click Save to return to the time period settings screen.
 - Anti-Dither: This field allows the user to set the anti-dither time. The values in this field can range from 5 to 600 seconds. This time value controls how long the alarm signal lasts. Based on motion detection, a buzzer can go off, a tour can begin, PTZ can be activated, a snapshot can be taken, or a channel can begin recording.

For example, if the anti-dither time is set to 10 seconds, each alarm may last 10 seconds if the local alarm is activated. During the process, if the system detects another local alarm signal at the fifth second, the buzzer, tour, PTZ activation, snapshot, record channel functions will begin another 10 seconds while the screen prompt, alarm upload, email will not be activated again. After 10 seconds, if system detects another alarm signal, it can generate a new alarm since the anti-dither time has expired.

• **Region:** The setup button takes the user to the motion detection region setup screen for that specific channel. On the next page is a screenshot of the motion detection region screen.



When the setup button is clicked, the current channel's interface comes into a full screen view. The user can then set up to 4 regions, each with their own region name, sensitivity (1-100), and threshold (1-100). Each region has a specific color, and the region selector tool is displayed when the mouse is moved to the top of the screen.

- Sensitivity is the amount of change required to increase the motion detected by a percentage. The lower the sensitivity, the more movement is required to trigger an alarm.
- Threshold is the level that the motion detection needs to reach to trigger an alarm.
 The lower the threshold, the more likely that motion will trigger an alarm.
- To designate a zone, click and drag the mouse over the area desired. When a colored box is displayed over the live feed, that area is now enabled for motion detection. Clicking the FN button will switch the mode between armed and disarmed, so that clicking and dragging the mouse can either designate a motion detection zone or remove any motion detection zone markers.
- After the motion detection zone is set, click the enter button to exit the motion detection screen. Remember to click the save button on the motion detection settings screen, otherwise the motion detection zones will not go into effect. Clicking the escape button to leave the motion detection zone and will not save the zone setup.



- **Record Channel:** This checkbox allows the user to enable the system to record video for that channel when a motion detection alarm is triggered. Delay is also associated with this tab, it is the This field specifies in seconds how long the delay between alarm activation and recording should be.
- **PTZ Activation:** Allows the user to active PTZ functionality to applicable PTZ devices.
- Delay: Allows the user to set a delay in between motion event activation.
- **Tour:** Allows the user to enable the camera to activate a PTZ tour when a motion detection alarm is triggered.
- Snapshot: Allows the user to enable the camera to take a snapshot when a motion detection alarm is triggered.
- Voice Prompts: Allows the user to customize voice prompts for motion detected events.
- **Show Message:** This checkbox allows the user to enable the system to show an on-screen message when a motion detection alarm is triggered.
- Send Email: This checkbox allows the user to enable the system to send an email when a motion detection alarm is triggered.
- Buzzer: Allows the user to trigger a buzzer once a motion event is detected.
- Log: Allows the user to log all motion detected events that are triggered in the device.
- Alarm Upload: This checkbox allows the user to enable the system to upload alarm information when a motion detection alarm is triggered.

To revert to default settings, click the Default button near the bottom left hand corner. To copy settings to another channel, click Copy near the bottom left hand corner. To test a channel's motion detection, click Test near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Video Loss

The video loss settings screen is where the DVR can be setup to notify the user any time there is video loss on any of the channels. Below is a screenshot of the video loss settings screen:

		& SETTING
🗲 Back To Main	T CAMERA	NETWORK 🗖 EVENT 🖉 SYSTEM 🗐 STORAGE
	Motion Detect Video L	_oss Tampering
ABINORIVIALITI	Channel	
	Enable	
	Period	Set CAM AntiDither 0 sec.
	Show Message	☑Alarm Upload Send Email
	Record Channel	234
	PTZ Activation	Set Delay 10 sec.
	Tour	234
	Snapshot	1 2 3 4
	Buzzer	₽Log
	Voice Prompts	File Name Vone -
	Default Copy	Save Cancel Apply
📀 AMCREST		



Below is a description of the fields on the Video Loss settings page:

- **Channel:** The channel dropdown menu is used to select which channel you would like to use to set your motion detection.
- **Enable:** This checkbox allows the user to enable the motion detection function for a specific channel. To select a channel, click on the drop-down menu provided on the right.
- **Period:** This setup button takes the user to the motion detection period settings screen. Below is a screenshot of the motion detection period settings screen.



- Click and drag on the green bars to specify time zones for motion detection. To edit multiple days at once, either click the checkboxes next to the names, or click the checkbox next to All to edit all the days at once. Once the checkbox is clicked, press save to save and apply your detection settings. Click Cancel to undo any changes and return to the motion detection settings screen. Click Default to use the default settings.
- To specify time zones in greater detail for each day, click the Setup button to the left of the time bar, and the Time Period setup screen will appear. The screenshot below shows the Time Period settings screen:



					Period				
	Current D	ate: Sunday							
F	Period 1	00 : 00	- 24 : 00						
F	Period 2	00 : 00	- 24 : 00						
F	Period 3	00:00	- 24 : 00						
F	Period 4	00 : 00	- 24 : 00						
F	Period 5	00 : 00	- 24 : 00						
F	Period 6	00 : 00	- 24 : 00						
c	Сору								
6	🖌 All 🔽	Sunday 🛃	Monday 🛃 Tu	esday 론) Wednesday (🛃 Thursday	🗹 Friday 💆	Saturday	
					ОК				

The system allows for the configuration of up to 6 different time periods. Click the checkbox to the left of the time period to enable that time period. Click the text next to each period to edit the time period. To copy time periods, click the checkboxes next to the days of the week that you'd like to copy the settings to. Once finished on this screen, click Save to return to the time period settings screen.

• **CAM Anti-Dither:** This field allows the user to set the anti-dither time. The values in this field can range from 5 to 600 seconds. This time value controls how long the alarm signal lasts. Based on motion detection, a buzzer can go off, a tour can begin, PTZ can be activated, a snapshot can be taken, or a channel can begin recording.

For example, if the anti-dither time is set to 10 seconds, each alarm may last 10 seconds if the local alarm is activated. During the process, if the system detects another local alarm signal at the fifth second, the buzzer, tour, PTZ activation, snapshot, record channel functions will begin another 10 seconds while the screen prompt, alarm upload, email will not be activated again. After 10 seconds, if system detects another alarm signal, it can generate a new alarm since the anti-dither time has expired.

- **Record Channel:** This checkbox allows the user to enable the system to record video for that channel when a motion detection alarm is triggered. Delay is also associated with this tab, it is the This field specifies in seconds how long the delay between alarm activation and recording should be.
- **PTZ Activation:** Allows the user to active PTZ functionality to applicable PTZ devices.
- **Tour:** Allows the user to enable the camera to activate a PTZ tour when a motion detection alarm is triggered.
- Snapshot: Allows the user to enable the camera to take a snapshot when a motion detection alarm is triggered.
- Voice Prompts: Allows the user to customize voice prompts for motion detected events.



- **Show Message:** This checkbox allows the user to enable the system to show an on-screen message when a motion detection alarm is triggered.
- Send Email: This checkbox allows the user to enable the system to send an email when a motion detection alarm is triggered.
- **Buzzer:** Allows the user to trigger a buzzer once a motion event is detected.
- Log: Allows the user to log all motion detected events that are triggered in the device.
- Alarm Upload: This checkbox allows the user to enable the system to upload alarm information when a motion detection alarm is triggered.

To revert to default settings, click the Default button near the bottom left hand corner. To copy settings to another channel, click Copy near the bottom left hand corner. To test a channel's motion detection, click Test near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Tampering

The tampering settings screen is where the DVR can be setup to notify the user any time a camera is tampered with or if the output video is only displaying in one color. Below is a screenshot of the video tampering settings screen:

		& SETTING			
🗲 Back To Main	CAMERA SI		EVENT	SYSTEM	STORAGE
	Motion Detect Video L	.oss Tamperir	ng		
ABNORMALITY	Channel				
	Enable		Sensitivity	3	
	Period	Set	CAM AntiDither	Ŋ	sec.
	Show Message	🗹 Alarm Upload	Send Email		
	Record Channel	1 2 3 4			
	PTZ Activation	Set	Delay	10	sec.
	Tour	1 2 3 4			
	Snapshot	1 2 3 4			
	Buzzer	€Log			
	Voice Prompts	File Name None	• •		
	Default Copy		Save	Cancel	Apply
⊙ ∧ M C R E S T					

Below is a description of the fields on the Tampering settings page:

- **Channel:** The channel dropdown menu is used to select which channel you would like to use to set your motion detection.
- **Enable:** This checkbox allows the user to enable the motion detection function for a specific channel. To select a channel, click on the drop-down menu provided on the right.
- **Period:** This setup button takes the user to the motion detection period settings screen. Below is a screenshot of the motion detection period settings screen.





- Click and drag on the green bars to specify time zones for motion detection. To edit multiple days at once, either click the checkboxes next to the names, or click the checkbox next to All to edit all the days at once. Once the checkbox is clicked, press save to save and apply your detection settings. Click Cancel to undo any changes and return to the motion detection settings screen. Click Default to use the default settings.
- To specify time zones in greater detail for each day, click the Setup button to the left of the time bar, and the Time Period setup screen will appear. The screenshot below shows the Time Period settings screen:

					Period
	Current D	ate: Sunday			
	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 🗹 Tu	esday	🖌 Wednesday 🖌 Thursday 🖌 Friday 🖌 Saturday
L					
					ОК



- The system allows for the configuration of up to 6 different time periods. Click the checkbox to the left of the time period to enable that time period. Click the text next to each period to edit the time period. To copy time periods, click the checkboxes next to the days of the week that you'd like to copy the settings to. Once finished on this screen, click Save to return to the time period settings screen.
 - **CAM Anti-Dither:** This field allows the user to set the anti-dither time. The values in this field can range from 5 to 600 seconds. This time value controls how long the alarm signal lasts. Based on motion detection, a buzzer can go off, a tour can begin, PTZ can be activated, a snapshot can be taken, or a channel can begin recording.
 - For example, if the anti-dither time is set to 10 seconds, each alarm may last 10 seconds if the local alarm is activated. During the process, if the system detects another local alarm signal at the fifth second, the buzzer, tour, PTZ activation, snapshot, record channel functions will begin another 10 seconds while the screen prompt, alarm upload, email will not be activated again. After 10 seconds, if system detects another alarm signal, it can generate a new alarm since the anti-dither time has expired.
 - **Record Channel:** This checkbox allows the user to enable the system to record video for that channel when a motion detection alarm is triggered. Delay is also associated with this tab, it is the This field specifies in seconds how long the delay between alarm activation and recording should be.
 - Sensitivity Allows the user to set a preset sensitivity setting for motion detected events.
 - **PTZ Activation:** Allows the user to active PTZ functionality to applicable PTZ devices.
 - **Tour:** Allows the user to enable the camera to activate a PTZ tour when a motion detection alarm is triggered.
 - **Snapshot:** Allows the user to enable the camera to take a snapshot when a motion detection alarm is triggered.
 - Voice Prompts: Allows the user to customize voice prompts for motion detected events.
 - **Show Message:** This checkbox allows the user to enable the system to show an on-screen message when a motion detection alarm is triggered.
 - Send Email: This checkbox allows the user to enable the system to send an email when a motion detection alarm is triggered.
 - Buzzer: Allows the user to trigger a buzzer once a motion event is detected.
 - Log: Allows the user to log all motion detected events that are triggered in the device.
 - Alarm Upload: This checkbox allows the user to enable the system to upload alarm information when a motion detection alarm is triggered.

To revert to default settings, click the Default button near the bottom left hand corner. To copy settings to another channel, click Copy near the bottom left hand corner. To test a channel's motion detection, click Test near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Abnormality

This screen is used to specify system action in the case of either hard drive abnormality, or network abnormality. **HDD.**

This screen allows the user to specify actions that occur when there is an abnormality with the DVR's hard disk drive (HDD). Below is a screenshot of the HDD Abnormality settings screen:



		& SETTING
🗲 Back To Main	🖶 CAMERA 🏾 💿 I	
	HDD Netwo	ork User
ABNORMALITY	Event Type	No HDD -
	Enable	
	Chow Morrago	
	Buzzer	
	Voice Prompts	File Name Vone -
		Save Cancel Apply
A MCREST		

Below is an explanation of the fields on the HDD Abnormality settings screen:

- Event Type: This field allows the user to specify which HDD abnormality event type they would like to configure settings for.
- No Disk: No hard drive is detected.
- Disk Error: The hard drive has an error.
- Disk No Space: The hard drive is about to or has run out of space.
- Less Than: This field allows the user to specify at what percentage of free disk space this condition should be triggered.
- Enable: This checkbox allows the user to enable the features below for the specified event type.
- Show Message: This checkbox allows the user to enable the system to show an on-screen message when an HDD abnormality occurs.
- Alarm Upload: This checkbox allows the user to enable the system to upload alarm information when an HDD abnormality occurs.
- Send Email: This checkbox allows the user to enable the system to send an email when an HDD abnormality occurs.
- Buzzer: This checkbox allows the user to enable the system to activate a buzzer when an HDD abnormality occurs.

To save settings, click the Save button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.



Network

This screen allows the user to specify actions that occur when there is an abnormality with the DVR's network connection. Below is a screenshot of the Network Abnormality settings screen:

		& SETTING			
🗲 Back To Main			EVENT	SYSTEM	STORAGE
	HDD Netwo	rk User			
	Event Type	Net Disco 🔻			
	Enable				
	Show Message		Send Email		
	Record Channel	234			
	Buzzer	✓Log	Delay	10	sec.
	Voice Prompts	File Name None			
			Save	Cancel	Apply
O AMCREST					

Below is an explanation of the fields on the Network Abnormality settings screen:

- Event Type: This field allows the user to specify which Network abnormality event type they would like to configure settings for.
- \circ $\;$ Net Disconnected: The network connection has been disconnected.
- IP Conflict: There is a device on the network with the same IP address.
- \circ $\;$ MAC Conflict: There is a device on the network with the same MAC address.
- Enable: This checkbox allows the user to enable the features below for the specified event type.
- Show Message: This checkbox allows the user to enable the system to show an on-screen message when a network abnormality occurs.
- Send Email: This checkbox allows the user to enable the system to send an email when a network abnormality occurs.
- Record Channel: This checkbox allows the user to enable the system to start recording video when a network abnormality occurs. Multiple cameras can be specified to start recording based on this function.
- Buzzer: This checkbox allows the user to enable the system to activate a buzzer when a network abnormality occurs.
- Delay: This field specifies in seconds how long the delay between alarm activation and buzzer activation should be.

To save settings, click the Save button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.



User

This screen allows the user to specific actions that occur when there is an abnormality with the user account connection. Below is a screenshot of the User Abnormality settings screen:

		& SETTING			
🗲 Back To Main	🖶 CAMERA 🏾 🚳			SYSTEM	TORAGE
	HDD Netw	vork User			
ABNORMALITT	Event Type	Net Disco	*		
	Enable				
				k	
	Show Message		Send Email		
	Record Channel	1234			
	Buzzer	√Log	Delay	10	sec.
	Voice Prompts	File Name Non	ne 🔻		
			Save	Cancel	Apply
📀 A M C R E S T					

Below is an explanation of the fields on the Network Abnormality settings screen:

- Event Type: This field allows the user to specify which Network abnormality event type they would like to configure settings for.
- \circ $\;$ Net Disconnected: The network connection has been disconnected.
- \circ $\$ IP Conflict: There is a device on the network with the same IP address.
- \circ $\;$ MAC Conflict: There is a device on the network with the same MAC address.
- Enable: This checkbox allows the user to enable the features below for the specified event type.
- Show Message: This checkbox allows the user to enable the system to show an on-screen message when a network abnormality occurs.
- Send Email: This checkbox allows the user to enable the system to send an email when a network abnormality occurs.
- Record Channel: This checkbox allows the user to enable the system to start recording video when a network abnormality occurs. Multiple cameras can be specified to start recording based on this function.
- Buzzer: This checkbox allows the user to enable the system to activate a buzzer when a network abnormality occurs.
- Delay: This field specifies in seconds how long the delay between alarm activation and buzzer activation should be.

To save settings, click the Save button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.



System

General

This screen displays general settings for the DVR. Below is a screenshot of the general settings screen:

		& SE [™]	TTING			
🗲 Back To Main	👦 CAMERA		ORK 💼 EN	/ENT	SYSTEM	STORAGE
	General	Date&Time	Holiday			
PTZ VOICE ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Device Name Device No. Language Video Standard HDD Full Pack Mode Instant Play	XVR 8 ENGLISH NTSC Overwrite Time Length 5	 ▼ €0 min. min. 	min.		
	Auto Logout ■ Navigation Bar ⊘ Startup Wizarc Mouse Sensitivity Default	Slow	Fast	Save	Cancel	Apply
📀 A M C R E S T						

Below is an explanation of the fields on the General settings screen:

- Device Name: This field allows the user to customize the name of the HDCVI.
- Device No: This field allows the user to customize the device's number.
- Language: This dropdown box allows the user to select a language for the DVR. Options include English, Simplified Chinese, Traditional Chinese, Italian, Japanese, French, and Spanish.
- Video Standard: This dropdown box allows the user to select a video standard. The options are between PAL and NTSC.
- HDD Full: This dropdown box allows the user to specify what to do when the HDD is full. There are two options:
- \circ ~ Overwrite: This option lets the DVR overwrite the oldest recorded video on the DVR.
- Stop Record: This option causes the DVR to stop recording once the HDD is full.
- Pack Duration: This field allows the user to define the recording duration. The default value is 60 minutes.
- Instant Play: This field allows the user to set the playback time frame that is viewed in the preview interface. This value can range from 5 to 60 minutes.
- Auto Logout: This field allows the user to define in minutes how long the system can stay idle before a user is logged out. The value can range from 0 to 60 minutes.
- Navigation Bar: This checkbox allows the user to enable the navigation bar that shows on the main screen.
- Startup Wizard: This checkbox allows the user to enable the startup wizard the next time the system is restarted. Mouse Sensitivity: This sliding scale allows the user to increase the movement and double click speed of the mouse.

To rest to default settings, click the Default button near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Date and Time

This screen displays date and time settings for the DVR. Below is a screenshot of the Date & Time settings screen:



	र्छ SETTING	
🗲 Back To Main	🤝 CAMERA 💿 NETWORK 🖆 EVENT 📃 SYSTEM 📮 STORAGE	
GENERAL DISPLAY PTZ VOICE ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	General Date&Time Holiday Date Format YYYY M Time Format 24-HOUR Date Separator - - System Time 2018 - 10 - 10 11 : 00 : 20 GMT-06:00 Save OST DST DST Type Week Date Start Time Mar 2nd Mo 02 : 00 End Time Nov 1st Mo 00 : 00	
AMCREST	✓ NTP Host IP time.windows.com Manual Update Port 123 Interval 60 min. Default Save Cancel Apply	
MCREST		

Below is an explanation of the fields on the Date & Time settings screen:

- Date Format: This dropdown box allows the user to specify a date and time format for the DVR to use. There are 3 options.
- YYYY MM DD: Year, Month, Day.
- MM DD YYYY: Month, Day, Year.
- DD MM YYYY: Day, Month, Year.
- Time Format: This dropdown box allows the user to specify a time format for the DVR to use. There are two options.
- o 24 Hour
- o 12 Hour
- Date Separator: This dropdown box allows the user to specify a date separator. There are 3 options:
- − Dash
- o / Forward Slash
- _ Underscore
- System Time: This field allows the user to set the system time and time zone. Click Save to save the system time as it is shown in the display.
- Time Zone: This dropdown box allows the user to specify a time zone for the DVR to use. DST: This checkbox allows the user to activate DST for the system.
- DST Type: This field allows the user to pick whether DST starts on a specific day of the week, or on a specified.
- Start Time: This field allows the user to enter a start date and time for DST to begin.
- End Time: This field allows the user to enter an end date and time for DST to end on.



- NTP: NTP stands for Network Time Protocol. This checkbox allows the user to enable the use of an NST server to synchronize the date and time settings on the DVR.
- Server IP: This field allows the user to set the NTP server IP address. Clicking the Manual Update button pulls a time update from the server.
- Port: This field allows the user to set the NTP server port number.
- Interval: This field allows the user to set the NTP synchronization interval. This number determines how often the DVR queries the NTP server to get accurate date and time information. This value can be between 0 and 60 minutes.

To revert to default settings, click the Default button near the bottom left hand corner. To save settings, click the save button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Holiday

This screen displays the holiday settings for the DVR. Below is a screenshot of the Holiday settings screen:

& SETTING						
🗲 Back To Main	🚽 🖶 CA	MERA 💿 NE	TWORK 🛣 E'		SYSTEM	STORAGE
GENERAL DISPLAY	Genera	al Date&Time	e Holiday			
PTZ VOICE ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	0	Status	Name			
		- 111			A	dd a Holiday
⊙ AMCREST						

Below is an explanation of the fields on the Holiday settings screen:

- 1: This number indicates how many holidays are in the system. Each line item has a number to signify its place in the list.
- Status: This dropdown box indicates the status of the holiday. There are two options:



- Open: The holiday is active, and the DVR will stop recording for that holiday period.
- Stop: The holiday is inactive, and the DVR will continue normal operation for that holiday period. Name: This column is where the name of the holiday is displayed.
- Date: This column shows the date that the holiday occurs on.
- Period: This column shows the range in which the holiday occurs.
- Edit: This column has a button that allows for the editing of the holiday.
- Delete: This column has a button that allows for the deletion of the holiday.
- Add New Holidays: This button allows the user to add a holiday. Below is screenshot of the Add New Holidays screen.

		Add Holidays	
Holiday Name Repeat Mode O Once Holiday Range O Date	e CAlways O Week		
Start Time	2018 - 10 2018 - 10	0 - 10	
Add More			
			Add Cancel

Note:

- Holidays take precedence over the scheduled setup.
- Holidays do not roll over based on their inherent date. Meaning, if a holiday is set for October 30th, then the system will treat every October 30th as a holiday.

Display

This screen is used to set display settings for the DVR. Below is a screenshot of the display settings screen:


		& SETTING	ì		
🔄 Back To Main	CAMERA		EVENT	SYSTEM	STORAGE
GENERAL DISPLAY PTZ VOICE ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	 CAMERA Display Channel Display Original Rate Preview Enhand Transparency Resolution 1280x 	Tour Zero	Channel	STOLEM	- STURAGE
[Default		Save	Cancel	Apply
A M C R E S T					

Below is an explanation of the fields on the Display settings screen:

- Time Display: This checkbox allows the user to choose whether the time stamp shows in the playback video.
- Channel Display: This checkbox allows the user to choose whether the channel number is displayed in the playback video.
- Original Rate: This checkbox allows the user to choose the original rate of the display being monitored by the device.
- Preview Enhancement: This checkbox allows the user to optimize the margin of the playback video.
- Transparency: This slider allows the user to change the transparency of the menu screens on the DVR. The range goes from 0% to 100%.
- Resolution: This dropdown box allows the user to change the resolution of the DVR. There are 4 options:
- o **1920×1080**
- 1280×1024 (default)
- o **1280×720**
- o 1024×768

To revert to default settings, click the Default button near the bottom left hand corner. To save settings, click the save button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Tour

This screen is used to activate tour functionality for the live preview. Below is a screenshot of the Tour Setup screen:



	5	SETTING	
🗲 Back To Main	🖶 CAMERA 🏾 💿 N	IETWORK 🖾 EVENT	
GENERAL DISPLAY	Display Tour	Zero Channel	sec
VOICE ACCOUNT	Video Detect View 1 Window Split View 1	 ✓ Alarm View 1 ✓ 	
AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	4	Channel Group	
	∢ Add Modify	Delete Move up	▶ Move down
[Default	Save	Cancel Apply
⊙ ∧ M C R E S T			

Below is an explanation of the fields on the Tour Setup settings screen:

• Enable: This checkbox allows the user to enable the tour functionality.

Note: An alternate way to enable or disable tour is by clicking



- Interval: This field allows the user to set an interval in seconds for how quickly the tour cycles through channels. This value ranges from 5 to 120 seconds.
- Video Detect: This dropdown box allows the user to select whether they want to see 1 or 4 cameras at a time in the tour.
- Alarm: This is a list that allows the user to select channels and add alarms as a part of the tour.
- Window Split: This list allows the users to select channels add as a part of the tour. The number in the corner indicates how many channels are available.
- Add: This button allows the user to add a channel from the tour.
- Modify: This button allows the user to modify or edit a channel from the tour.
- Delete: This button allows the user to remove a channel from the tour.
- Move Up: This button allows the user to move a camera up in the tour queue.
- Move Down: This button allows the user to move a camera down in the tour queue.

To revert to default settings, click the Default button near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.



Zero Channel

This screen is used to configure zero channel encoding functionality. This feature allows for the preview of several channels in one channel's window. Note: This feature only works on the Web Access view. Below is a screenshot of the Zero-Channel Encoding settings screen:

		& SETT	ГING		
🔄 Back To Main	👦 CAMERA		rk 💼 even	NT 📃 SYST	
GENERAL	Display	Tour Z	ero Channel		
PTZ	Enable				
	Compression Resolution	H.264 352*240(CIF)			
	Frame Rate(FPS) Bit Rate(Kb/S)	30 1024			
UPGRADE					
	Default			Save Can	cel Apply
⊙ AMCREST					

Below is an explanation of the fields on the Zero-Channel Encoding settings screen:

- Enable: This checkbox allows the user to enable the zero-channel encoding functionality.
- Compression: This dropdown box allows the user to select the compression settings used by the system for zerochannel encoding. The default is H.264.
- Resolution: This dropdown box allows the user to select the resolution used by the system for zero-channel encoding. There are 2 options for resolution (in pixels):
- CIF: 352 x 240
- D1 720 x 480
- Frame Rate: This dropdown box allows the user to select the frame rate used by the system for zero-channel encoding. The range is between 1 and 30 frames per second.
- Bit Rate: This dropdown box allows the user to select the bit rate used by the system for zero-channel encoding. There are 7 options, and all are measures in kilobytes per second (Kb/S):

 \circ 896 \circ 1024 \circ 1280 \circ 1536 \circ 1792 \circ 2048 \circ 4016

- Overlay: This checkbox allows the user to enable a timestamp on the zero-channel encoded video.
- Set: This button allows the user to set a time stamp position on the video.

To revert to default settings, click the Default button near the bottom left hand corner. To save settings, click the save button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.



<u>PTZ</u>

This screen is used to configure Pan/Tilt/Zoom (PTZ) functionality. Below is a screenshot of the PTZ settings screen:

		Ŕ	SETTING			
🗲 Back To Main		A 💿 NE	TWORK		SYSTEM	STORAGE
GENERAL DISPLAY PTZ VOICE ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Channel Control Mode Protocol Address Baudrate Data Bits Stop Bits Parity	1 HDCVI 1 9600 8 1 None				
	Default	Сору		Sav	e Cancel	Apply
A M C R E S T						

Below is an explanation of the fields on the PTZ settings screen:

- Channel: This dropdown box allows the user to pick which channel they would like to change PTZ settings for.
- Control Mode: This dropdown box allows the user to pick which control move they would like to use for the specified channel. The two options are Serial and HDCVI.
- Protocol: This dropdown box allows the user to pick a protocol for the specified channel. Default is HDCVI.
- Address: This dropdown box allows the user to pick the corresponding PTZ address for the channel.
- Baud Rate: This dropdown box allows the user to pick a baud rate for the PTZ channel. The options are 1200, 2400, 4800, 9600, 19200, 38400, 57600, or 115200.
- Data Bits: This dropdown box allows the user to pick the amount of data bits for the PTZ transmission. The options are 5, 6, 7, or 8.
- Stop Bits: This dropdown box allows the user to pick the amount of stop bits for the PTZ transmission. The options are 1, 1.5, or 2.
- Parity: This dropdown box allows the user to pick the parity for the PTZ transmission. The options are none, odd or even.

To revert to default settings, click the Default button near the bottom left hand corner. To copy settings to another channel, click Copy near the bottom left hand corner. To save settings, click the save button near the bottom right



hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Voice

This screen is used to set and manage voice file settings for scheduled alerts. To use this function, you will need to use a USB device with preset voice files on them. The interface will import the files into the **File Manage** tab. Below is a screenshot of the file manage tab:

	Q	SETTING		
🔄 Back To Main			SYSTEM	STORAGE
GENERAL DISPLAY PTZ VOICE ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	File Manage Schedule	e		
	0 File Name	Size	Play Rename	Delete
			Volume	Add
AMCREST				

Below is an explanation of the fields on the File Manage screen:

File Name: Indicates the name of the file you will be importing into the system.

Size: Indicates the size of that file.

Play: Allows the user to playback and hear the file they are importing.

Rename: Allows the user to rename the file if necessary.

Delete: Allows the user to delete the file from the USB storage device.

Add: Allows the user to add or import the voice file into the system.

Schedule

This tab allows the user to schedule a voice file towards a specific period on the device. Below is a screenshot of the schedule tab:



		🤹 SE	ETTING				
🗲 Back To Main			(ork 💼 e		SYSTEM	📮 STO	RAGE
	File Manage	Schedule					
PTZ	Period		File Name	Interv	al Repea	t Output	
VOICE	00 : 00	- 24 : 00	None	▼ 60	min. 0	Mic	
ACCOUNT	00 : 00	- 24 : 00	None	~ 60	min. 0	Mic	
AUTO MAINTAIN	00 : 00	- 24 : 00	None	→ 60	min. 0	Mic	
IMP/EXP	00:00	- 24 : 00	None	→ 60	min. 0	Mic	
DEFAULT	00:00	- 24 : 00	None	→ 60	min. 0	Mic	
UPGRADE	00:00	- 24 : 00	None	- 60	min. 0	Mic	
				Save	Cancel	Apply	
O AMCREST							

Below is an explanation of each field in this menu:

Period: Allows the user to set a time period for the schedule voice event. File Name: Allows the user to choose which voice file will be used during the event. Interval: Allows the user to determine a specific interval of time (in minutes) the event will occur. Repeat: Allows the user to set a specific number of repeats for the indicated voice alarm. Output: Allows the user to set the audio output of the voice event. This will be default to **Mic**.

To save settings, click the save button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Account

This menu is used to manage user accounts, user account passwords, and user groups. Below are a few considerations to keep in mind when editing this information:

- The DVR comes with 2 usernames by default:
- Username: admin Password: admin
- Username: default Password: default
- It is highly recommended to change the passwords for the admin and default accounts.



- Each user name and user group name can only contain letters, numbers, underline marks, dashes, or dots. No empty spaces are allowed.
- The maximum number of users is 64, and the maximum number of users that can be in one group is 20.
- There are two levels for user management: administrator and user. Administrator has more rights than a normal user and can modify key DVR settings.
- Each user can belong to only one group, and user rights cannot exceed group rights.

User

This screen is used to configure User Account settings. Below is a screenshot of the User Account settings screen:

			🤹 SE	ETTING				
🗲 Back To Main	🚽 🕁 c	AMERA		/ORK 🚡 EVEI		SYSTEN		AGE
	Use	er	Group	Secure Que			· · · · ·	
PTZ VOICE ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	2 1 2	User Nam admin default	ne	Group Name admin user	Modify	Delete St	atus ogin Local efault User ►	
	Add U	ser						
⊙ ∧ M C R E S T								

Below is an explanation of the fields on the User Account settings screen:

- Number: This number indicates how many users are in the system. Each line item has a number to signify its place in the list.
- User Name: This column indicates an account's username.
- Group Name: This column shows which group the username belongs to.
- Modify: This column has a button that allows for the account's properties to be edited.
- Delete: This column has a button that allows for the account's properties to be deleted.
- Status: This column shows what the status of a certain account is.
- MAC Address: This column shows the account's MAC address.
- Add User: This button allows the user to add another user account. Below is a screenshot of the Add User screen.



	Ac	ld User	
User Name			
Password		Confirm Password	
Memo		User MAC	
Group admin -			
Period Set			
Authority			
System Playback	Monitor		
 Ali Account Ptz Color CAMERA 	 ✓ SYSTEM ✓ INFO ✓ STORAGE ✓ CLEAR LOG 	DISCONNECT MANUAL CONT EVENT SHUTDOWN	 DEFAULT&UPG BACKUP NETWORK
			Save Cancel

Note:

- It is recommended to give the general user fewer rights than an administrative one.
- When a new user is created, a MAC address can be entered for the user. This can limit the user's ability to logon from another device. If left blank, the user can logon from any MAC address.
- There is a total of 98 rights that can be assigned to a user.

Group

This screen is used to configure Group Account settings. Below is a screenshot of the Group Account settings screen:

			& SETTIN	G			
🗲 Back To Main		AMERA 💿	NETWORK	🖾 E'	VENT	SYSTEM	STORAGE
GENERAL DISPLAY	Use	r Gro	oup Sec	ure Que			
PTZ VOICE ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	2 1 2	Group Name admin user	Modify #	Delete	Memo adminisi user gro	trator group	
	Add Gro	pup					
O AMCREST							



Below is an explanation of the fields on the User Group settings screen:

- Number: This number indicates how many groups are in the system. Each line item has a number to signify its place in the list.
- Group Name: This column indicates an account's username.
- Modify: This column has a button that allows for the account's properties to be edited.
- Delete: This column has a button that allows for the account's properties to be deleted.
- Memo: This column indicates any notes about the user group.
- Add Group: This button allows the user to add another user group. On the next page is a screenshot of the Add Group screen.

		Add Group	
Group Name Memo			
Authority			
System	yback Monitor		
AII ACCOUNT PTZ COLOR CAMERA	SYSTEM INFO STORAGE CLEAR LOG	DISCONNECT MANUAL CONT EVENT SHUTDOWN	DEFAULT&UPG BACKUP NETWORK
			Save Cancel

Note:

- It is recommended to give the general user fewer rights than an administrative one.
- There is a total of 98 rights that can be assigned to a user.

Security Questions

This screen is used to configure or modify security questions for password resets. Below is a screenshot of this menu:



		4	SETTING						
🔄 Back To Main		ERA 🛛 💿 NI	ETWORK		SYSTEM	STORAGE			
	Modify User	Modify Grou	p Secure Q	uestior					
ACCOUNT	Successfully	Successfully set. Please delete it first if you want to reset security question again.							
AUTO MAINTAIN CONFIG BACKUP	Question 1	What's your f	avorite pet?			•			
DEFAULT UPDATE	Answer	dog							
	Question 2	What's your f	irst car mode	el?		•			
	Answer	car							
						Delete			
					Set	Delete			
⊙ AMCREST									

To update or modify a security questions from the dropdown menu choose a security question from the **Question 1** field. Then in the **Answer** field, place the answer to that question. Do the same for questions two. When you have finished creating your security questions, click on the **Set** button to set and apply the settings to your NVR. To delete a question, click on **Delete**.

Auto Maintain

This screen is used to configure Auto Maintenance settings for the DVR. Below is a screenshot of the Auto Maintain settings screen:



	& SETTING	
🔄 Back To Main	CAMERA 💿 NETWORK 🛅 EVENT 📃 SYSTEM	STORAGE
GENERAL DISPLAY PTZ VOICE ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Auto Reboot Tuesday • at 02:00 • Auto-Delete Old Files Never • Save Cancel	Apply
A M C R E S T		

Below is an explanation of the fields on the Auto Maintain settings screen:

- Auto Reboot: This dropdown field allows the user to set a day of the week and time to automatically reboot the system to keep the system healthy.
- Auto Delete Old Files: This dropdown field allows the user to delete old files. The two settings are Never and Customized. When customized is selected, several days can be specified. Any files that exist past that many days in the past are deleted to create space on the DVR's hard drive.

To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

IMP/EXP

This screen is used to manage importing and exporting of system configurations. This feature can be used to clone the settings from one DVR to another. Below is a screenshot of the IMP/EXP settings screen:



		loc SETTING			
🗧 Back To Main	T CAMERA	NETWORK		SYSTEM	STORAGE
GENERAL DISPLAY PTZ VOICE ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Device Name Total Space Address Name New Folder	Format	Refresh Free Space	Size Type	Delete
😳 a m c r e s t					

Below is an explanation of the fields on the Config Backup settings screen:

- Device Name: This dropdown field allows the user to select a device to pull configuration data from.
- Refresh: This button refreshes the list of devices connected to the DVR.
- Total Space: This field displays the total storage capacity on the selected device.
- Free Space: This field displays the remaining storage capacity on the selected device.
- New Folder: This button allows the user to create a new folder on the selected device.
- Format: This button allows the user to format the selected device.
- Import: This button allows the user to import configuration data to the DVR.
- Export: This button allows the user to export current configuration data to another device.

Default

This screen is used to revert the DVR back to its default settings. This feature can be used to restore the DVR to its factory setup conditions. Below is a screenshot of the Default settings screen:



			& SETTING				
🔄 Back To Main		RA 🔤 🖣	NETWORK		VT	SYSTEM	STORAGE
GENERAL DISPLAY	Please select s	setting e	ntries that you wa	int to defaul	lt.		
PTZ VOICE	Select All CAMERA		NETWORK				
ACCOUNT AUTO MAINTAIN	EVENT SYSTEM	 Image: Second sec	STORAGE				
IMP/EXP DEFAULT							
UPGRADE							
	Factory Default				Save	Cancel	Apply
⊙ л м с к е ѕ т							

There are 5 different settings areas that can be reset to default settings: Camera settings, Event settings, Network settings, System settings, and Storage settings. All of these settings can be reset by the use of the All checkbox. The following settings are also reset with a factory reset:

- System Menu Color
- Language
- Time Display Mode
- Video Format
- IP Address
- User Accounts

To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Upgrade

This screen is used to update the DVR's firmware to the latest version. To conduct a system update, it is required to put an update file onto a USB storage device and plug it into the DVR. Ensure the update file is named update.bin.

Below is a screenshot of the Update screen:



		& SETTING			
🗲 Back To Main	S CAMERA			SYSTEM	STORAGE
GENERAL DISPLAY PTZ VOICE ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	UPGRADE If you need to upg start button to start Start	rade system now,ple upgrade.Don't shut c	ase insert USB u lown the power o	ıpgrade disk,then pı during upgrade!	ress the
O A MCREST					

Once the USB device with the firmware update is plugged in, navigate to this screen and click the Start button to begin the firmware update process.

Storage

This menu allows the user to update, modify, and manage device storage settings within the DVR. For more details on this menu please refer to the sections below.

Schedule

This screen is used to specify the recording schedule for both recorded video and snapshots.



	& SETTING
🗲 Back To Main	🤝 CAMERA 💿 NETWORK 🖆 EVENT 📕 SYSTEM 📃 STORAGE
SCHEDULE	Record Snapshot
HDD MANAGE RECORD	Channel 1 🝷 Pre-record 4 sec. Redundancy
HDD DETECT	✓Regular MD Alarm MD&Alarm All 0 2 4 6 8 10 12 14 16 18 20 22 24
	🗖 Sunday
	🗖 Monday 💼 🏕
	🗖 Tuesday 💼 🏕
	🗗 Wednesday 💼 🌞
	🗖 Thursday 👘 🔅
	🗖 Friday 💼 👘 🔅
	🗖 Saturday 💼 🗘 👘 🔅
	Default Copy Save Cancel Apply
A M C R E S T	

Below is an explanation of the fields on the Record settings screen:

- **Channel:** This dropdown box allows the user to pick which channel they would like to change video recording settings for.
- **Prerecord:** This field allows the user to capture extra video that occurs before an event. Up to 30 seconds of video prior to a recording event can be captured to provide context to a recording.
- **Redundancy:** This checkbox allows the user to enable the redundancy backup feature. This feature allows the DVR to record video to two hard drives concurrently to ensure that in the case of a hard drive failure, the recorded data may be backed up to another hard drive.
- \circ ~ Note: This function only works if the HDD has two hard drives installed.
- Note: One hard drive must be designated as redundant from the HDD Manager menu.
- Record Types: There are 4 types of recordings:
- **Regular:** Regular recording means that the DVR captures all footage for the specified time period. Regular recording is represented by green.
- **MD:** Motion Detection recording means that the DVR captures only footage when the motion detection alarm is activated. MD recording is represented by yellow.
- Alarm: Alarm recording means that the DVR captures only footage when an alarm is activated. Alarm recording is represented by the color red.
- MD & Alarm: This type of recording is a combination of motion detection and alarm footage, and records when either a motion detection alarm or general alarm is activated. MD & Alarm recording is represented by the color white.



To set a recording schedule for your device, click on the **set** option located on the right of the day you wish to set the schedule. The system allows for the configuration of up to 6 different time periods.

				Period
Curr	ent Da	ate: Sund	lay	
Perio Perio Perio Perio Perio	od 1 od 2 od 3 od 4 od 5 od 6	00:00 00:00 00:00 00:00 00:00	- 24 : 00 - 24 : 00	 Regular MD Alarm
Cop	y	Sunday	Monday M	Tuesday 🖓 Wed 🖓 Thur 🖓 Friday 🖓 Saturday
		Sunday		
				ОК

Click the text next to each period to edit the time you wish to set for that specific period. Next, choose which record type you would like to set for each period. You will also need to select the days you wish to apply these settings. To select all days, select the all options to apply the settings to all days of the week.

To revert to default settings, click the Default button near the bottom left hand corner. To copy settings to another channel, click Copy near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Snapshot

This tab is where snapshot recording settings are configured. Below is a screenshot of the Snapshot settings screen:



	& SETTING	
🗲 Back To Main	🦁 CAMERA 💿 NETWORK 🖆 EVENT 📕 SYSTEM 📮 STOP	RAGE
SCHEDULE HDD MANAGE RECORD HDD DETECT	CAMERA NETWORK Record Snapshot Channel 1	☆ ☆ ☆ ☆ ☆ ☆
🔆 A M C R E S T	Default Copy Save Cancel Apply	

Note: Prior to setting up a schedule for snapshots in this menu, it is highly recommended to do the following 3 steps.

- 1. Go to Main Menu -> Settings -> Storage -> Record and enable snapshot for any channels that may be using this feature.
- 2. Go to Main Menu -> Settings -> Camera -> Encode -> Snapshot Interface and configured the settings on this page.
- 3. Go to Main Menu -> Settings -> Event -> Detect and enable snapshot for any specified channels for motion detection, video loss, and video masking.

Below is an explanation of the fields on the Snapshot settings screen:

- **Channel:** This dropdown box allows the user to pick which channel they would like to change video recording settings for.
- Record Types: There are 4 types of recordings:
- **Regular:** Regular recording means that the DVR captures all footage for the specified time period. Regular recording is represented by green.
- **MD:** Motion Detection recording means that the DVR captures only footage when the motion detection alarm is activated. MD recording is represented by yellow.
- Alarm: Alarm recording means that the DVR captures only footage when an alarm is activated. Alarm recording is represented by the color red.
- MD & Alarm: This type of recording is a combination of motion detection and alarm footage, and records when either a motion detection alarm or general alarm is activated. MD & Alarm recording is represented by the color white.



To set a recording schedule for your device, click on the **set** option located on the right of the day you wish to set the schedule. The system allows for the configuration of up to 6 different time periods.

	Period	
Current Date: Sunday		
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	Regular MD Alarm MD&Alarm Regular MD Alarm MD&Alarm	
Copy All 🔽 Sunday 🖌 Monday (🗹 Tuesday 🗹 Wed 🗹 Thur 🗹 Friday 🗹 Saturday	
	OK	

Click the text next to each period to edit the time you wish to set for that specific period. Next, choose which record type you would like to set for each period. You will also need to select the days you wish to apply these settings. To select all days, select the all options to apply the settings to all days of the week.

To revert to default settings, click the Default button near the bottom left hand corner. To copy settings to another channel, click Copy near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Note: Alarm activated snapshots have higher recording priority than scheduled snapshots. If there is an overlap, alarm activated snapshots will take precedence.

Note: To enable FTP upload of snapshots, connection to an FTP server must be configured. See section 4.10.2.7 for more information.

To revert to default settings, click the Default button near the bottom left hand corner. To copy settings to another channel, click Copy near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.



HDD Manage

This screen is meant to help the user monitor the DVR's hard drives. Using this screen, the user can see the current HDD type, status, and capacity. The user can also use this screen to format hard drives and change hard drive properties.

SETTING 🔄 Back To Main CAMERA NETWORK EVENT SYSTEM STORAGE SCHEDULE SATA HDD MANAGE RECORD HDD DETECT Device Name Type Status Free Space/Total Space All 923.25 GB/931.40 GB SATA-1 Read/Write Normal 923.25 GB/931.40 GB Refresh Format Save Cancel Apply 🗿 A M C R E S T

Below is a screenshot of the HDD Manage settings screen:

Below is an explanation of the fields on the HDD Manage settings screen:

- SATA: This shows how many hard drives the system can support.
- 1 here means the system supports a maximum of 1 HDD.

The symbol on the next row shows the status of the connected hard drive.

- 0 means that the current HDD is functioning normally.
- X means there is an error with the hard drive connection, or that there is no connected hard drive.
- ? means that the hard drive is damaged and should be replaced.
- Hard Drive List:
- This shows what hard drives are currently connected to the DVR and displays information about them.
- Device Name: This column shows the names of the connected hard disk drives (HDD).



- Type: This column shows the type of access the DVR has to the hard drive. To change a hard drive's type, click the downward arrow next to the HDD's type and select the desired type. There are 3 possible settings:
- Read-Only: This allows the DVR to read the data, but not modify it in anyway.
- Write-Only: This allows the DVR to write data to the HDD, but not read any data from it.
- Read/Write: This allows the DVR to both read and write data on the HDD.
- Status: This column shows the status of the connected hard drive. There are 3 statuses:
- Normal: This means the hard drive is operating normally.
- Error: This means the DVR is experiencing an error when attempting to access the hard drive.
- Disconnected: This means that the HDD has disconnected from the DVR.
- Free Space/Total Space: This field shows the free space on the hard drive compared to its total capacity.

To refresh the hard drive list, click Refresh near the bottom left hand corner. To format a hard drive, select a hard drive to format from the list, and then click Format near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Record

This screen allows the user to specify which channels can record and take snapshots. The settings on this screen supersede all others when it comes to allowing channels the ability to record information. Below is a screenshot of the Record screen:

		& SETTING			
🗲 Back To Main	👦 CAMERA			SYSTEM	STORAGE
SCHEDULE HDD MANAGE RECORD	Main Stream Auto Manual	All 1 2 3 4			
HDD DETECT	Stop Sub Stream				
	Auto Manual				
	Stop Snapshot				
	Enable Disable				
			Sav	e Cancel	Apply
⊙ AMCREST					

Below is an explanation of all the fields on the Record settings page:



- Main Stream: The main stream is the stream through which the channels transmit data by default. There are 3 settings that can be used for the main stream.
- Schedule: Channels will record as they have been scheduled, and not in any other capacity.
- o Manual: Channels will support all recording type. This includes scheduled recording.
- Stop: Channels will not record in any capacity. This includes scheduled and manual recording.
- Extra Stream: Otherwise known as the sub stream, this stream allows for additional data to be transmitted. There are 3 settings that can be used for the main stream.
- Schedule: Channels will record as they have been scheduled, and not in any other capacity.
- o Manual: Channels will support all recording type. This includes scheduled recording.
- Stop: Channels will not record in any capacity. This includes scheduled and manual recording.
- Snapshot: This set of options can either enable or disable the snapshot functionality for specific channels.

To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

HDD Detect

This screen allows the user to run an error detection report on the DVR's hard drives. Below is a screenshot of the HDD Detect settings menu:

	& SET	TING		
🔄 Back To Main	🖶 CAMERA 💿 NETWO	RK 🖾 EVENT	SYSTEM	STORAGE
SCHEDULE	Detect Report			
HDD MANAGE RECORD	Type Quick Detect - HDD	Select HDD(s) 🔻	Start Detect	Stop Detect
HDD DETECT			Good Bad	Block
			Detected HDD No.	0
			Total Space	0.00 GB
			Error	
			Current HDD	
			Detect Speed	
			Process	
			Detect Time	
			Remaining Time	
⊙ AMCREST				

Below is an explanation of the fields on the HDD Detect settings page:



- Type: This dropdown box allows the user to select which type of HDD detection report to run. There are two options:
- Quick Detect: Quick detect runs a quick hard drive error detection report.
- Full Detect: Full detect runs a more detailed hard drive error report and may take more time.
- HDD: This dropdown box allows the user to select which HDD to run the HDD detection report on. Multiple hard drives can be selected.
- Start Detect: This button started the HDD detection report.
- Stop Detect: This button stops the HDD detection report.

Report

Once the report is done, the results show in the **Report** tab. Below is a screenshot of the detect report tab:

		& SETTING		
🗲 Back To Main	- CAMERA		🖬 EVENT 🛛 📕 SYS	
	Detect	Report		
RECORD HDD DETECT	1 HDD Port N	No. Detect Type Quick Detect	Start Time 2018-10-10 12:00:46	Capacity Error 931.51 GB 0
		11		•
⊙ AMCREST				

To view detailed results of the report, double click the line item, or click the magnifying glass in the view column of the report. The detailed view looks like the screenshot below:



	& SETTING			
E Back	Details			TOPAGE
SCHED	Detect Results S.M.A.R.T			TORACE
HDD M. RECOR	Type Quick Detect Backup to USB Device	s		
HDD DE		■ Good ■ Bad	Elock	
		Detected HDD No.		
		Total Space	931.51 GB	
		Error	0	
		HDD Port No.		
0 A M C 10	ESI			

The Results tab shows a visual representation of the hard drive scan results. The S.M.A.R.T. tab shows S.M.A.R.T. report results.

	Q S	ETTING							SK DL	TING			
		etails							De	tails			
etect Result	ts S.MA.R.T						Di		lts S.M.A.R.T				
ut 1							Po						
							Ma	dla 91	E1000V/M002_1 CT162				
idle ST	1000VM002-1C1162						IVIC		1000 010002 10 1102				
	G8SCW6						Se	rial No. S1	G8SCW6				
atus OK							Sta	atus Ol					
							De	scribe:					
a sea anna a la sa s													
scribe:	1.4 Jul 19 (1.4 1.1	71 1 1 1	171		0	1001	50	vart ID	Attribute	Thrachold	Value	Woret	St
scribe: nart ID	Attribute	Threshold	Value	Worst	Status	^	Si	nart ID	Attribute	Threshold	Value 100	Worst	St
scribe: nart ID 1	Attribute Read Error Rate Sain Un Time	Threshold 6	Value 114	Worst 99	Status OK	-	Si	nart ID 184 187	Attribute Unkown Attribute Benorted Upcorrect	Threshold 99 0	Value 100	Worst 100 100	St
scribe: nart ID 1 3 4	Attribute Read Error Rate Spin Up Time Start/Ston Count	Threshold 6 0 20	Value 114 97	Worst 99 97	Status OK OK	_^	St	nart ID 184 187 188	Attribute Unkown Attribute Reported Uncorrect Unkown Attribute	Threshold 99 0 0	Value 100 100 100	Worst 100 100 100	St
scribe: nart ID 1 3 4 5	Attribute Read Error Rate Spin Up Time Start/Stop Count Beallocated Sector Count	Threshold 6 0 20 36	Value 114 97 100	Worst 99 97 100	Status OK OK OK	-	Si	nart ID 184 187 188 189	Attribute Unkown Attribute Reported Uncorrect Unkown Attribute High Fly Writes	Threshold 99 0 0 0	Value 100 100 100 91	Worst 100 100 100 91	St
scribe: nart ID 1 3 4 5 7	Attribute Read Error Rate Spin Up Time Start/Stop Count Reallocated Sector Count Seek Error Rate	Threshold 6 0 20 36 30	Value 114 97 100 100 64	Worst 99 97 100 100 60	Status OK OK OK OK OK	=	Si	nart ID 184 187 188 189 191	Attribute Unkown Attribute Reported Uncorrect Unkown Attribute High Fly Writos G: Sense Error Rate	Threshold 99 0 0 0 0	Value 100 100 100 91 100	Worst 100 100 91 100	St
scribe: nart ID 1 3 4 5 7 9	Attribute Read Error Rate Spin Up Time Start/Stop Count Reailocated Sector Count Seek Error Rate Prover Count Hours Count	Threshold 6 0 20 36 30 0	Value 114 97 100 100 64 99	Worst 99 97 100 100 60 99	Status OK OK OK OK OK	=	Si Si	nart ID 184 187 188 189 191 192	Attribute Unkown Attribute Reported Uncorrect Unkown Attribute High Fly Writes G-Sense Error Rate Prover-Off Betrat Cycle	Threshold 99 0 0 0 0 0	Value 100 100 91 100 100	Worst 100 100 91 100 100	St
scribe: 1 3 4 5 7 9 10	Attribute Read Error Rate Spin Up Time Start/Stop Count Reallocated Sector Count Seek Error Rate Power On Hours Count Scip. ung Retry Count	Threshold 6 20 36 30 0 97	Value 114 97 100 100 64 99 100	Worst 99 97 100 100 60 99 100	Status OK OK OK OK OK OK	=	Si	mart ID 184 187 188 189 191 192 193	Attribute Unkown Attribute Reported Uncorrect Unkown Attribute High Fly Writes G. Sense Error Rate Power-Off Retract Cycle Load Unload Cycle Count	Threshold 99 0 0 0 0 0 0 0	Value 100 100 100 91 100 100 100	Worst 100 100 100 91 100 100 100	SI
scribe: 1 3 4 5 7 9 10 12	Attribute Read Error Rate Spin Up Time Start/Stop Count Reallocated Sector Count Seek Error Rate Power On Hours Count Spin-up Retry Count Power On Or Aff Count	Threshold 6 0 20 36 30 0 97 20	Value 114 97 100 100 64 99 100 100	Worst 99 97 100 100 60 99 100 100	Status OK OK OK OK OK OK	=	Sr Sr	mart ID 184 187 188 189 191 192 193 194	Attribute Unkown Attribute Reported Uncorrect Unkown Attribute High Fly Writes G Sonse Error Rate Power-Off Retract Cycle Load/Unload Cycle Count Temperature	Threshold 99 0 0 0 0 0 0 0 0 0	Value 100 100 91 100 100 100 35	Worst 100 100 91 100 100 100 45	St
scribe: nart ID 3 4 5 7 9 10 12 184	Attribute Read Error Rate Spin Up Time Start/Stop Count Reallocated Sector Count Soek Error Rate Power On Hours Count Spin up Retry Count Undown Attribute	Threshold 6 20 36 30 0 97 20 99	Value 114 97 100 100 64 99 100 100 100	Worst 99 97 100 100 60 99 100 100 100	Status OK OK OK OK OK OK OK	=	Si Si	mart ID 184 187 188 189 191 192 193 194 197	Attribute Unkown Attribute Reported Uncorrect Unkown Attribute High Fly Writes G-Sense Error Rate Power-Off Retract Cycle Load/Unload Cycle Count Temperature Current Pending Sector Count	Threshold 99 0 0 0 0 0 0 0 0 0 0	Value 100 100 91 100 100 100 35 100	Worst 100 100 91 100 100 100 45 100	SI
scribe: nart ID 3 4 5 7 9 10 12 184 187	Attribute Read Error Rate Spin Up Time Start/Stop Count Sank Toror Rate Power On Hours Count Spin up Retry Count Power On Hours Count Power On Off Count Unkown Attribute Reported Uncarect	Threshold 6 20 36 30 0 97 20 99 0	Value 114 97 100 100 64 99 100 100 100 100	Worst 99 97 100 100 60 99 100 100 100 100	Status OK OK OK OK OK OK OK OK	Ŧ	Si Si	mart ID 184 187 188 189 191 192 193 194 197 198	Attribute Unkown Attribute Reported Uncorrect Unkown Attribute High Fly Writes G. Sense Error Rate Power-Off Retract Cycle Load/Unload Cycle Count Temperature Current Pending Sector Count Off-ine Scan Uncorrectable Count	Threshold 99 0 0 0 0 0 0 0 0 0 0 0 0	Value 100 100 91 100 100 100 35 100 100	Worst 100 100 91 100 100 100 45 100 100	St

Web Operation

One of the main features of your Amcrest DVR is the ability to access the DVR and all its features through the web. Whether you want to view the live feed from remote location, or you want the ability to display the live feed on multiple computers on your local network, the device can accommodate all those needs.

To enable web client operation, ensure the following items are completed:



- The DVR is connected to the Network via an Ethernet cable.
- The DVR and the PC are on the same network OR the DVR has been configured for remote access.

Local Web Access

NPAPI plugins have been recently depreciated by most mainstream web browsers such as recent versions Google Chrome (Plugin), Edge, and Firefox. Currently, our team is pursuing a solution to this, however, as a primary means of accessing the web user interface for your Amcrest device in a web browser, **we recommend using Internet Explorer**. Other browsers will also be functional such as a previously released version of Mozilla Firefox, such as Firefox 49.0.2, or Safari 11.

As an alternative, other secondary browsers will also be functional for the web user interface such as, <u>SeaMonkey</u>, and <u>Pale Moon</u> web browsers. SeaMonkey is compatible with Windows and Mac and is free to use, Pale Moon is only compatible with Windows and Linux systems. Conversely, both browsers will require the use of a plugin like other web browsers.

Note: Pale Moon users, please use the 32-bit version of the browser as the 64-bit version may be incompatible with our plugins.

Internet Explorer is currently the most preferred method of accessing your device on your computer from a web browser. To access the web UI via Internet Explorer please refer to the information provided below.

Locate the IP address for your device using the Amcrest IP Config Tool. The Amcrest IP Config Tool can be downloaded at the following web page: <u>amcerest.com/downloads</u>

In the All Downloads menu, click on IP Config Software to begin the free download. Once the download has completed installing, locate the IP address associated with the device you would like to view in the browser.

1	Cor	nfigTool	🄯 🗰		
Devi	ces Found:	1	All V All V	Q	
No.	Туре	Model		TCP Port	н
1	() IPC	IP4M-1051	10.0.25.246	37777	80

Enter this IP address into the Internet Explorer browser and press enter to load the web user interface.



In the web user interface, enter the login credentials for your device. If this is the first time accessing the device, the username and password will both be **admin**. Click on **Login**.



Anch	
DVR Web A	ccess
🛓 admin	
۰۰۰۰۰۰	٢
ТСР	Ŧ
1	Forgot Password

If this is the first-time logging into your device, you will be prompted to modify the password for your device. To modify the password, enter the new password you would like to use in the **New Password** field and confirm. The password used should be between 8 and 32 characters long with a combination of letters and numbers. Click **Ok** when done to log into the web user interface.

	Modify password
New Password Confirm Password	•••••
	Ок

To view your device on the browser you will need to download the plugin. To download the plugin, click on the **Please click here to download and install the plugin** prompt in the middle of the screen.

O AMCREST	Line Fighter Cost Surge	line Are Land
Railman Schlman Passe 10 -	u o	W 201 4 \$
	Prese sikk brea in doorsool end table he progin	PECANA International PECANA International PECANA International PECANA International Inte
55 MI 2 MI W 🔛		



Click **Run** to download the plugin.



The browser will then show the live feed of your connected device in the web user interface.

If the process above is not working, please contact Amcrest Support via one of the following options:

Visit <u>http://amcrest.com/contacts</u> and use the email form Call Amcrest Support using one of the following numbers Toll Free: (888) 212-7538 International Callers (Outside of US): +1-713-893-8956 USA: 713-893-8956 Canada: 437-888-0177 UK: 203-769-2757 Email Amcrest Customer Support <u>support@amcrest.com</u>

Remote Web Access

There are two main methods for setting up remote access: UPnP/DDNS, and Port Forwarding.

UPnP/DDNS Remote Access Setup

Using Universal Plug and Play (UPnP) and Dynamic Domain Name Server (DDNS) functionality is the easiest way to setup stable remote access. For this method, your router should support the uPnP networking protocol and the protocol should be enabled. Please refer to your router manufacturer's documentation to learn how to enable uPnP on your router.

To view a video on how to setup the HDCVI for UPnP/DDNS remote access go to http://amcrest.com/videos and view the video titled "How to Gain Remote Access to Your HDCVI DVR with Universal Plug and Play".



Below is a step-by-step walkthrough that details how to setup the HDCVI for Remote Web Access using UPnP and DDNS:

- 1. Login to your DVR, open the main menu then go to Settings -> Network.
- 2. Using the left-hand menu, go to the Connection menu, and write down the HTTP port. It is recommended to ensure the port number is at least 5 digits long to prevent any port conflicts. If need be, change the port to a 5-digit number that is less than 65535, note the number down, and click save before proceeding to the next step.
- 3. The system will prompt you to reset the DVR. Click OK and wait for the DVR to restart.
- 4. Login to your DVR, open the main menu then go to Settings -> Network.
- 5. Click the Connections menu item on the left-hand menu and ensure that the HTTP port has changed.
- 6. Click the DDNS menu item on the left-hand menu, click the enable checkbox, and then click the Apply button on the bottom right.
- 7. Write down the entire Domain Name field, including the white text that says .AmcrestDDNS.com 8. Click the UPnP menu item on the left-hand menu and click the enable radio button at the top.
- 9. While in the UPnP menu, double click the HTTP port, and change both the internal and external HTTP ports to match the number that was used in step 2.
- 10. Uncheck the last 4 checkboxes in the PAT table on the UPnP menu.
- 11. Click apply and ensure the UPnP status field says "Searching."



- 12. Exit this menu to go back to the main menu, then re-enter the UPnP menu, and ensure the UPnP status says "Success".
- 13. Open a web browser and enter in the DDNS domain name address from step 3, enter in a colon, then type the port number from step 4 on to the end.
- a. For example, if the DDNS domain name is http://abc123456789.AmcrestDDNS.com and your HTTP Port is 33333, the URL would be http://abc123456789.AmcrestDDNS.com:33333
- 14. The browser may prompt you to install a plugin. Click install to download the plugin, and then click on the plugin installation file to install the plugin.
- 15. If the browser prompts you to allow the plugin to work on the computer, hit Allow to ensure the plugin can run successfully.
- 16. Enter in login details into the username and password fields.
- 17. Click the WAN option, and then click Login.
- 18. Once the main interface opens, click the plug icons next to each camera on the list on the left-hand side, and activate the main stream for each of them to enable the live feed.

If the process above is not working, please contact Amcrest Support via one of the following options:

- Visit <u>http://amcrest.com/contacts</u> and use the email form
- Call Amcrest Support using one of the following numbers Toll Free: (888) 212-7538 International Callers (Outside of US): +1-713-893-8956 USA: 713-893-8956 Canada: 437-888-0177 UK: 203-769-2757
- Email Amcrest Customer Support <u>support@amcrest.com</u>

Port Forwarding Remote Access Setup

Port Forwarding is an alternative method to setting up remote access for the DVR. This method should only be used if the UPnP/DDNS Remote Access method did not work.

To view a video on how to setup the HDCVI for Port Forwarding remote access go to <u>http://amcrest.com/videos</u> and view the video titled



"How to Gain Remote Access to Your HDCVI DVR with Port Forwarding". Below is a step-by-step walkthrough that details how to setup the HDCVI for Remote Web Access using UPnP:

- 1. Login to your DVR, open the main menu then go to Settings -> Network.
- 2. Open the TCP/IP settings screen.
- 3. By default, the DVR has the mode set to Static. Click the radio button next to DHCP to change this to DHCP. The IP Address, Subnet Mask, Default Gateway, Preferred DNS, and Alternate DNS should all change to 0s.
- 4. Click Save to save these settings. This should now open the main menu.
- 5. From the main menu, go to Settings -> Network.
- 6. On the TCP/IP settings screen, the IP Address, Subnet Mask, Default Gateway, Preferred DNS, and Alternate DNS should all be populated.
- 7. Click the radio button next to Static, to change the mode to Static.
- 8. Write down the IP Address that is currently in the IP address field.
- 9. Click the Save button.
- 10. Using the left-hand menu, go to the Connection menu, and write down the TCP, UDP, and HTTP port number. It is recommended to ensure that these port numbers are at least 5 digits long to prevent any port conflicts. If need be, change each of these port numbers to a 5-digit number that is less than 65535, note the numbers down, and click save before proceeding to the next step.
- 11. Go to <u>http://www.canyouseeme.org/</u> and check to ensure each of the port numbers specified in step 10 are open.



- 12. Write down the manufacturer name, brand, and model name for the router that the DVR is connected to, and then proceed to portforward.com on your web browser.
- 13. Open the port forwarding guide section on the left-hand side menu.
- 14. Find the router brand name in the list and click it.
- 15. Find the router model number and click it.
- 16. Click the Default Guide link near the middle of the page.
- 17. This guide will help you take the step necessary to port forward on the router. Follow these steps, and then return to the DVR.
- 18. Login to your DVR, open the main menu then go to Settings -> Network.
- 19. Click the DDNS menu item on the left-hand menu, click the enable checkbox, and then click the Apply button on the bottom right.
- 20. Write down the entire Domain Name field, including the white text that says.AmcrestDDNS.com
- 21. Open a web browser and enter in the DDNS domain name address from step 20, enter in a colon, then type the HTTP port number from step 10 on to the end.
- a. For example, if the DDNS domain name is http://abc123456789.AmcrestDDNS.com and your HTTP Port is 33333, the URL would be http://abc123456789.AmcrestDDNS.com:33333
- 22. The browser may prompt you to install a plugin. Click install to download the plugin, and then click on the plugin installation file to install the plugin.
- 23. If the browser prompts you to allow the plugin to work on the computer, hit Allow to ensure the plugin can run successfully.
- 24. Enter in login details into the username and password fields.
- 25. Click the WAN option, and then click Login.
- 26. Once the main interface opens, click the plug icons next to each camera on the list on the left-hand side, and activate the main stream for each of them to enable the live feed. If the process above is not working, please contact Amcrest Support via one of the following options:
- Visit <u>http://amcrest.com/contacts</u> and use the email form
- Call Amcrest Support using one of the following numbers Toll Free: (888) 212-7538 International Callers (Outside of US): +1-713-893-8956 USA: 713-893-8956 Canada: 437-888-0177 UK: 203-769-2757
- Email Amcrest Customer Support support@amcrest.com



Web Access Interface

LAN Live View Interface



The interface on the LAN Live View consists of 8 major sections:

- 1. Menu Bar: There are 6 menu items on the menu bar.
- a. Live: This button takes the user to the Live View interface (pictured above)
- b. Playback: This button takes the user to the Playback interface. See section 5.3.3.
- c. Alarm: This button takes the user to the Alarm interface. See section 5.3.4.
- d. Settings: This button takes the user to the Settings interface. See section 5.4.
- e. Info: This button takes the user to the Information interface. See section 5.5.
- f. Logout: This button logs the user out of the system. See section 5.6.
- 2. Channel List: On this side bar, there is a list of all the channels available, as well as an Open All button. The Open All button enables/disables real-time channel monitoring for all of the channels.
- a. To switch between the main stream and the sub stream, click the channel name and select which stream to use. For more information on main stream vs sub stream, see section 4.10.5.3.
- 3. Start Talk Button: This button allows the user to broadcast audio via their audio-enabled camera or audio output device. Note: If the audio input port from the device to the client-end is using the first channel audio input port, during the bidirectional talk process, the system will not encode the audio data from the 1-channel. There are 4 bidirectional talk protocols available in the system:
- a. Default
- b. G711a
- c. G711u
- d. PCM
- 4. Instant Record Button: This button allows the user to begin manual recording. Click the button again to restore the system to the previous recording mode.
- 5. Local Play Button: This button allows the user to playback saved files from their PC. Saved files have a .dav extension. Click the local play button to open a file browser to select a playback file.
- 6. PTZ Operation Panel: This set of controls allows the user to remotely control PTZ enabled cameras. Please refer to section 4.4.2 for more information on how to use the PTZ controls.



- 7. Image Setup and Alarm Output: These controls allow the user to modify the live-feed image settings, as well as alarm output notifications.
- 8. Live Feed View Settings: This set of controls allows the user to change their view in the live view screen. From left to right, the buttons do the following: Set video quality, set video fluency, enter full screen mode, scan, enter 1-window mode, enter 4-window mode, enter 6-window mode, enter 8-window mode, enter 9-window mode, enter 13-window mode, and enter 16-window mode.



WAN Live View Interface

There are minor differences between the LAN and WAN Live View Interfaces.

The interface on the WAN Live View consists of 7 major sections:

- 1. Menu Bar: There are 6 menu items on the menu bar.
- a. Live: This button takes the user to the Live View interface (pictured above)
- b. Playback: This button takes the user to the Playback interface. See section 5.3.3.
- c. Alarm: This button takes the user to the Alarm interface. See section 5.3.4.
- d. Settings: This button takes the user to the Settings interface. See section 5.4.
- e. Info: This button takes the user to the Information interface. See section 5.5.
- f. Logout: This button logs the user out of the system. See section 5.6.
- 2. Channel List: On this side bar, there is a list of all the channels available, as well as an Open All button. The Open All button enables/disables real-time channel monitoring for all of the channels.
- a. To switch between the main stream and the sub stream, click the channel name and select which stream to use. For more information on main stream vs sub stream, see section 4.10.5.3.
- 3. Start Talk Button: This button allows the user to broadcast audio via their audio-enabled camera or audio output device. Note: If the audio input port from the device to the client-end is using the first channel audio input port, during the bidirectional talk process, the system will not encode the audio data from the 1-channel. There are 4 bidirectional talk protocols available in the system:
- a. Default
- b. G711a
- c. G711u



- d. PCM
- 4. Instant Record Button: This button allows the user to begin manual recording. Click the button again to restore the system to the previous recording mode.
- 5. PTZ Operation Panel: This set of controls allows the user to remotely control PTZ enabled cameras. Please refer to section 4.4.2 for more information on how to use the PTZ controls.
- 6. Image Setup: These controls allow the user to modify the live-feed image settings.
- 7. Live Feed View Settings: This set of controls allows the user to change their view in the live view screen. From left to right, the buttons do the following: Set video quality, set video fluency, enter full screen mode, scan, enter 1-window mode, enter 4-window mode, enter 6-window mode, enter 8-window mode, enter 9-window mode, enter 13-window mode, and enter 16-window mode.

Playback Interface



This is the interface for the DVR web access playback menu. There are 6 main sections:

- 1. View Selection: This panel allows the user to view the different channel layouts.
- 2. Calendar: This panel allows the user to pick a date that they would like to playback video from.
- 3. File List: This button opens a file list of all recorded video for a specific date range. From here, the user can download these videos to their PC.
- 4. Trim Panel: This panel allows the user to trim playback video for download. By specifying time stamps, the user can trim down.
- 5. Recorded Video Panel: This panel allows the user to specify what type of video they would like to playback and it also allows the user to select where to start playback from.



6. Playback Bar: This panel allows the user to control playback. It also allows the user to control playback speed, and playback volume.

Clicking the File List opens the following screen on the sidebar:

00	: 00 :	00	Q
1	2	3	4
Start 1	ime	Туре	<u>^</u>
00:00	:00	R	
01:00	:00	R	
02:00	:00	R	
03:00	:00	R	
04:00	:00	R	
05:00	:00	R	
06:00	:00	R	
07:00	:00	R	
07:30	:21	R	
07:30	-26	R	-
14 4 1/2 ►	►I Jum	p to 1	Go
Start Time:			
End Time:			
File Size:			
			al second
⊥ Mo	re	⊥ Dov	vnload
		€ Β	lack

This allows the user to select files for download. Select the files by clicking the checkbox next to each file, and then click download to download the files to the PC. Clicking more, opens the advanced download screen where the user can download individual files, download by time frame, or add a watermark to a video. Below are screenshots of the advanced download screen:

This is the Download by File screen. The top part of the screen allows the user to search through the files. The buttons on the bottom allow the user to download files to the PC or download to USB.



🗿 A M C R	EST		Live PI	ayback Alarm			☆ 0 ⊡	12:24:57
Download by File	Download by	y Time Wat	ermark					
Channel // Type // Bit Stream Type //	All ▼ All Records ▼ Main Extra ▼	Start Time End Time	2014- 09 - 11 2014- 09 - 11	00 : 00 : 00 23 : 59 : 59	Search			
	No.	File Size	Start Time	End Time	File Type	Bit Stream Type	Channel	
	1	927063KB	2014-09-11 00:00:00	2014-09-11 01:00:00	Regular	Main Stream	1	^
•	2	927240KB	2014-09-11 01:00:00	2014-09-11 02:00:00	Regular	Main Stream		
	3	927077KB	2014-09-11 02:00:00	2014-09-11 03:00:00	Regular	Main Stream		
	4	927246KB	2014-09-11 03:00:00	2014-09-11 04:00:00	Regular	Main Stream		
	5	927076KB	2014-09-11 04:00:00	2014-09-11 05:00:00	Regular	Main Stream		
•	6	927210KB	2014-09-11 05:00:00	2014-09-11 06:00:00	Regular	Main Stream		
•		927142KB	2014-09-11 06:00:00	2014-09-11 07:00:00	Regular	Main Stream		
	8	461861KB	2014-09-11 07:00:00	2014-09-11 07:29:52	Regular	Main Stream		
Download to Local	Download to	USB				14.41	3 ⊳ ⊩i Jump to <mark>1</mark>	Go
Back								

This is the Download by Time screen. The top part of the screen allows the user to select a channel and a time frame from which to download any recorded video. The Download to Local button opens a dialog box asks the user to where to save the downloaded file.

A M C R E S T	Live Playback Alarm	♀ 6 [→ 12:26.42
Download by File Download by Time	Watermark	
Channel 1 Start Tim Bit Stream Type Main Stream T End Time	2014 - 09 - 11 00 : 00 : 00 2014 - 09 - 11 23 : 59 : 59	
Download to Local		
	Record Format DAV T	
	Save Path C:\RecordDownload\ Browse	
Back		



This is the Watermark screen. This screen allows users to add a watermark to downloaded video, and to verify watermarked videos.

	ST	Live Playback	Alarm	¢	0	₽	
Download by File	Download by Time Watermark						
Local File							
		Verify					
Watermark Info							
L							
Watermark Revised Info							
No.	Malfunction type	Watermark Time					
			×				
Back							

Alarm Interface

0	📀 A M C R E S T				Live Playback Alarm				🌣 🚯 🕞 03:01:52 PM
	ALARM TYPE				No	Time	Alarm Type	Channel	
	Motion Detect		HDD Error						
	External Alarm		Video Loss						
	Tampering		HDD Full						
	OPERATION								
	OPERATION								
L	Message								
	ALARM SOUND								
	Play Alarm Sound								
	Sound Path			Select					

This is the interface for the DVR's Alarm management menu. There are 4 main sections. See the table below for more information:



Number	Section	Parameter	Function
1	Alarm Type	Video loss	The system triggers the alarm when video loss occurs.
		Motion detection	The system triggers the alarm when motion detection occurs.
		Tampering	The system triggers the alarm when camera is maliciously masked.
		Disk full	The system triggers the alarm when the disk is full.
		Disk error	The system triggers the alarm when a disk error occurs.
		External alarm	An alarm input device triggers the alarm.
2	Operation	Prompt	The system automatically pops up an alarm icon on the Alarm button in the main interface when there is an alarm.
3	Alarm Sound	Play alarm sound	The system sends out an alarm sound when an alarm occurs. A custom sound can be used.
		Sound path	Here you can specify the alarm sound file.
4	Alarm Indicator	All	All triggered alarms are displayed here.

Web Access Settings Menu

The web access settings menu has slight differences with the DVR's menu. In this section, the web access settings menu will be explained in depth just like the DVR settings menu had been explained in the sections above.

To access the web access settings menu, click the gear icon near the top right-hand corner of the web access interface.

Camera

Image Settings

This screen is allowing the user to adjust the image settings for each channel. See below for a screenshot of the image settings screen:



	т	Live Pla	iyback Alaı	rm			‡ 0 E	03:01:52 PM
0 CAMERA	Conditions							23
Image Encode Cam Name		2014-07-26 21-56-19	Channel:		1 \$			
S NETWORK			Period:		00:00 - 24:00		00:00 - 24:00	
			Sharpness:		ے اور			
E STORAGE			Brightness:		- <u> </u>		6 58%	
SYSTEM			Contrast:	0	<u></u> 58%		<u>58%</u>	
			Saturation:	8	58%		Circular 1	
	CAM 1	Cancel	Color Mode:		Standard		Standard	
		© 2014 AMC	REST. All Rights R	eserve	ed.			

Below is an explanation for each of the fields on the Image Settings screen:

- Channel: This dropdown box allows the user to select a channel from the dropdown list to modify.
- Period: This dropdown box allows the user to select a period of time for which to modify the image settings. The user can configure up to 2 periods to encompass the entire 24 hours in the day. Click the checkbox to enable the period image settings changes.
- Saturation: This slider is used to adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50. The larger the number, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not be clear if the value is too low. The recommended value ranges from 40 to 60.
- Brightness: This slider is used to adjust monitor window brightness. The value ranges from 0 to 100. The default value is 50. The larger the number, the brighter the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high. The recommended value ranges from 40 to 60.
- Contrast: This slider is used to adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50. The larger the number is, the higher the contrast is. You can use this function when the whole video brightness is OK but the contrast is not correct. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over expose. The recommended value ranges from 40 to 60.
- Sharpness: This slider is used to adjust the sharpness of the video. The value ranges from 0 to 100. The larger the value is, the clearer the edges are and vice versa. Note: The higher the value, the higher likelihood of picture noise occurring. The default value is 50 and the recommended value ranges from 40 to 60.


To customize the picture, click Customize near the bottom left hand corner. To revert to default settings, click the Default button near the bottom left hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner.

Encode

This tab is used to set the video encoding settings for each channel. See below for a screenshot of the tab:

	5 T	Live	e Playback Alarm		\$
CAMERA	Encode Snapsho	Overlay	Path		
Image					
Encode Cam Name	Channel 1				
	MAIN ST	REAM		JB STREAM	
	Code-Stream Type Regu	lar 🗘	Video Enable		
	Compression H.26	\$	Compression	H.264 \$	
	Resolution 720F	\$	Resolution	CIF ‡	
SISIEM	Frame Rate(FPS) 30	\$	Frame Rate(FPS)	7 \$	
	Bit Rate Type CBR	\$	Bit Rate Type	CBR ‡	
	Bit Rate 4096	\$ Kb/S	Bit Rate	4096 \$ Kb/S	
	Reference Bit Rate 2048	4096Kb/S	Reference Bit Rate	40-256Kb/S	
	I Frame Interval 1 sec	\$	I Frame Interval	1 sec. ‡	
	Audio Enable 🗹		Audio Enable		
	Audio Encode G711	a 🗘	Audio Encode	G711a \$	
	Audio Source Regu	lar 🗢	Audio Source	Regular	
	Watermark Enable 🗹		Watermark String		
	Copy Save	Refresh	Default		
			© 2014 AMCREST. All Rights Reserved	l.	

Below is an explanation of the fields on the Encode settings screen:

Parameter	Function
Channel	This dropdown box allows the user to select a channel from the dropdown list to modify.
Video Enable	This checkbox allows the user to enable the extra video stream. This is checked by default for the main stream.
Code Stream Type	This dropdown box allows the user to select different encode frame rates for different recorded events. This includes the main stream, motion stream, and alarm stream.
	The system supports active control frame function (ACF). It allows the user to record in different frame rates. For example, a high frame rate can be used to record important events, and a low frame rate can be used to record scheduled events. The DVR also allows for the option to set different frame rates for motion detection recordings and alarm recordings.
Compression	This dropdown box allows the user to select a compression protocol. The system supports H.264 and MJPEG video compression protocols.



Resolution	This dropdown box allows the user to set the resolution. The system supports various resolutions and they can be selected from this dropdown list.
Frame Rate	This dropdown box allows the user to select a frame rate. Frame rate settings range from 1f/s to 25f/s in NTSC mode and 1f/s to 30f/s in PAL mode.
Bit Rate	This dropdown box allows the user to select a bit rate type. The system supports two bit rate types: CBR and VBR. In VBR mode, video quality can be set.
Reference Bit Rate	This is the recommended bit rate value according to the resolution and frame rate selected.
l Frame	This field allows the user to set the P frame amount between two I frames. The value ranges from 1 to 150 seconds. Default value is 50. Recommended value is frame rate *2.
Audio Source	This dropdown box allows the user to select an audio source. The system supports two audio sources: Normal or HDCVI. In normal mode, the audio signal comes from the audio input. In HDCVI mode, the audio signal comes from the camera coaxial cable.
Watermark Enable	This function allows the user to verify if the video has been tampered with. Watermark bit stream, watermark mode, and a watermark string can be selected. The default string is DigitalCCTV. The maximum length is 85 characters. This string can only include numbers, characters, and underscores.

To copy settings to another channel, click the Copy button. To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

Snapshot

This tab allows for the selection of snapshot settings. See below for a screenshot of the Snapshot tab:

0	AMCRES	БТ		Live	Playback	Alarm	\$
ত	CAMERA	Encode	Snapshot	Overlay	Path		
	Image						
	Encode	Channel	1	\$			
	Cam Name	Mode	Timing	÷			
Ň	NETWORK	Image Size	CIF (352*240)	\$			
A	EVENT	Quality	4	\$			
000	STORAGE	Snapshot Frequency	1 SPL	¢			
Ţ	SYSTEM						



Below is a list of snapshot settings that can be modified on this screen:

Parameter	Function
Snapshot Mode	This dropdown box allows the user to select a snapshot mode. There are two snapshot modes: regular and trigger. Regular snapshots are taken as scheduled. Trigger snapshots occur when a motion detection alarm, a tampering alarm, or a local activation alarm is triggered.
Image Size	This dropdown box allows the user to select an image size. There are 4 settings: D1, HD1, 2CIF, and CIF.
Image Quality	This dropdown box allows the user to select image quality. Quality is adjusted on a scale of 1-10.
Snapshot Frequency	This is to set snapshot frequency. The value ranges from 1 to 7 seconds. The maximum setting for a customized interval is 3600s/picture.

To copy settings to another channel, click the Copy button. To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

Overlay

The overlay tab allows the user to change overlay settings for each channel. Below is a screenshot of the overlay tab:



Below is an explanation of fields that can be modified on the overlay settings screen:

Parameter	Function
Channel	This dropdown box allows the user to select a channel from the dropdown list to modify.
Cover-Area	This button allows the user to set the cover area. Drag the mouse to set the proper section size. The system supports a maximum of 4 zones in one channel.



Preview/Monitor	There are two types of cover areas Preview means the privacy mask zone cannot be viewed by user when system is in preview status. Monitor means the privacy mask zone cannot be viewed by the user when system is in monitor status.
Time Display	This button allows the user to select whether or not the system displays time on playback video. Clicking the set button and allows the user to drag the timestamp to the desired position on the screen.
Channel Title	This button allows the user to select whether the system displays channel number on playback video. Clicking the set button allows the user to drag the title to the corresponding position on the screen.

To copy settings to another channel, click the Copy button. To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

Path

The path tab allows the user to specify a path to record snapshots and manual recordings to on the PC. Below is a screenshot of the path tab:



To confirm settings, click the Save button. To revert to default settings, click the Default button.

Cam Name

Here you can set channel name. Below is a screenshot of the channel name settings screen:

	ST		Live	Playback	Alarm			‡ 0 G
CAMERA								
Image	Channel 1: C	AM 1	Channel 2:	CAM 2	Channel 3:	CAM 1	Channel 4:	CAM 4
Encode	Channel 5: C/	AM 5	Channel 6:	CAM 6	Channel 7:	CAM 7	Channel 8:	CAM 8
Cam Name	Channel 9: C	AM 9	Channel 10:	CAM 10	Channel 11:	CAM 11	Channel 12:	CAM 12
S NETWORK	Channel 13: C	AM 13	Channel 14:	CAM 14	Channel 15:	CAM 15	Channel 16:	CAM 16
SYSTEM								

To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button. To confirm settings, click the Save button.



Channel Type

The channel type menu allows users to select which channel type will be added into the system. This can include the following types of protocols:

- Auto: Allows the user to automatically configure which protocol will be used.
- CVI: Allows the user to add a CVI or HDCVI camera to the DVR. for the device.
- AHD: Allows the user to add an AHD camera to the DVR.
- CVBS: Allows the user to add a CVBS (Analog) camera to the DVR.
- Other: Allows the user to add other compatible cameras into the DVR.
- IP: Allows the user to add IP cameras into the DVR. The number of cameras that can be added into the DVR will be specific to the amount of channels it can hold.

Below is a screenshot of the channel type screen:

	ST			PREVIEW F	PLAYBACK	ALARM			\$ 0	Ð	
CAMERA	CHAI	NNEL TYPE									
> IMAGE > ENCODE > CAM NAME		Channel —	AUTO 🗖	CVI 🗖	Analog AHD	CVBS 🗖	OTHER	IP 🔳			
> CHANNEL TYPE			2 2				_		^		
									\sim		
		*Note: To add a	n IP channel, first d	isable 1 analog chai	nnel. The IP channel	will be added starting	with the last channel.				
III SYSTEM				Save	Refresh	Default	Add IP CAM				

Note: To add an IP channel, you will need to disable 1 analog channel. The IP channel will be added starting with the last channel.

To add an IP camera, check the channels listed in the **IP** field and click on the **Add IP CAM** button. The system will need to reboot to activate the new setup parameters. Click **Yes** to reboot the DVR, allow the device to reboot and initialize, then add the IP camera accordingly.

To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button. To confirm settings, click the Save button.

Network

TCP/IP

TCP/IP stands for Transmission Control Protocol/Internet Protocol and it is the language/protocol that allows communication between internet connected devices, whether on a local network, or a on the Internet at large. This screen allows for TCP/IP settings to be modified for the DVR to establish connection to the network. Below is a screenshot of the TCP/IP settings screen:



	EST	Live Playback Alarm	✿ ① ▷ 14:32:13
	TCP/IP	P2P	
RETWORK	Mode	• Static • DHCP	
ТСР/ІР	MAC Address	90:02:a9:c4:8f:d2	
CONNECTION	мти	1500	
PPPOE	IP Version	IPv4	
IP FILTER	IP Address	192 168 0 2	
EMAIL	Subnet Mask	255 - 255 - 255 - 0	
FTP	Default Gateway	192 - 168 - 0 - 1	
UPnP	Preferred DNS	8 8 8 8 8	
SNMP	Alternate DNS	8 8 4 4	
MULTICAST		0.0.4.4	
REGISTER	LAN Download		
ALARM CENTER		Save Refresh Default	
HTTPS			

Below is an explanation of the fields on the TCP/IP settings screen:

Parameter	Function				
Mode	Static vs DHCP: This check box allows the user to choose between a static IP address, and a dynamic IP address. DHCP stands for Dynamic Host Configuration Protocol, and this enables the DVR to automatically obtain an IP address from another network device such as a server or more commonly, a router. When the DHCP function is enabled, the user cannot modify the IP address, Subnet Mask, or Gateway, as these values are obtained from the DHCP function. To view the current IP address, DHCP needs to be disabled. Note: When PPPoE is enabled, modification of IP Address, Subnet Mask, and Gateway becomes prohibited.				
MAC Address	This field shows the DVR's MAC address, which is unique to this device. This number is read-only and is used to access a local area network (LAN).				
IP Version	This dropdown allows the user to select the IP version. The two options are IPV4 and IPV6.				
IP Address	This field allows the user to enter a custom IP address.				
Preferred DNS	This field allows the user to enter the DNS server IP address.				
Alternate DNS	This field allows the user to enter the Alternate DNS server IP address.				
For the IP address of IPv6 version, default gateway, preferred DNS, and alternate DNS, the input value should be 128-digits. It should not be left blank.					
LAN Download	This checkbox allows the user to enable the user to process the downloaded data first. The download speed is 1.5X or 2.0X compared to the normal streaming speed.				

To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button. To confirm settings, click the Save button.



Connection

This screen allows users to configure port connections. It is important that the system is rebooted if any changes are made to the settings on this screen. Also, ensure that port values do not conflict. Below is a screenshot of the connection screen:

	EST	Live	Playback	Alarm		¢	0	[→ 14:33:32
CAMERA	Connection							
	Max Connection	128	(0~128)					
CONNECTION	TCP Port	37777	(1025~65535)					
PPPoE	UDP Port	37778	(1025~65535)					
DDNS	HTTP Port	37776	(1~65535)					
IP FILTER	HTTPS Port	443	(1~65535)					
EMAIL	RTSP Port	554	(1~65535)					
FTP	RTSP Format	rtsp:// <username>:<passwo< th=""><th>ord>@<ip address="">:<</ip></th><th>Port>/cam/realmonitor?channel=1&su</th><th>btype=0</th><th></th><th></th><th></th></passwo<></username>	ord>@ <ip address="">:<</ip>	Port>/cam/realmonitor?channel=1&su	btype=0			
SNIMP		channel: Channel 1-8; subty	pe: Code-Stream Type	e, Main Stream 0, Sub Stream 1.				
MULTICAST REGISTER		Save Re	fresh Def	ault				

Below is an explanation of the fields on the Connection settings screen:

Parameter	Function
Maximum Connection	This field represents the maximum amount of users that can be connected to the DVR at the same time. The maximum number of users the DVR can support at one time is 128.
TCP Port	This field designates the Transmission Control Protocol (TCP) port number. The default value is 37777.
UDP Port	This field designates the User Datagram Protocol (UDP) port number. The default value is 37778.
HTTP Port	This field designates the Hypertext Transfer Protocol (HTTP) port number. The default value is 80.
HTTPS	This field designates the Hypertext Transfer Protocol Secure (HTTPS) port number. The default value is 443.
RTSP Port	This field designates the Real Time Streaming Protocol (RTSP) port number. The default value is 554.

To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

PPPoE

PPPoE stands for Point-to-Point Protocol over Ethernet. This screen allows users to configure PPPoE connections. Below is a screenshot of the PPPoE screen:



	EST	Live Playback Alarm	O C 14:38:00
	PPPoE		
NETWORK	ľ		
TCP/IP	Enable		
CONNECTION	User Name		
PPPoE	Password		
DDNS	IP Address		
IP FILTER		0 - 0 - 0 - 0	
EMAIL			
FTP		Save Refresh Default	
1 Martine Control Cont			

To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

DDNS

DDNS stands for Dynamic Domain Name Server. This technology is used to automatically update name servers in real time to help the DVR maintain a persistent address despite changes in location or configuration. What this means is that even when the DVR is restarted, moved, or reconfigured, it can keep the same IP address, thus allowing remote users uninterrupted access to the DVR, rather than having to request a new IP address to use for remote access anytime a change is made.

To use this feature, users will need to setup an account with a DDNS service. The DVR supports a variety of DDNS services such as AmcrestDDNS, NO-IP DDNS, CN99 DDNS, Dyndns DDNS, and private DDNS services. Based on which service is selected, different options may show on this screen. For purposes of this guide, AmcrestDDNS will be used. To use AmcrestDDNS, go to http://www.AmcrestDDNS.com and register for an account. If the account is inactive for a year, AmcrestDDNS may take back the domain name, but an email will be sent beforehand as a warning. Below is a screenshot of the DDNS settings screen, configured to AmcrestDDNS:

🗿 A M C R	EST	Live Playback Alarm	☆ 6) [→ 14.39:47
O CAMERA	DDNS		
NETWORK	Enable		
CONNECTION	DDNS Type	Quick DDNS	
PPPoE	Server IP Address	www.quickddns.com	
DDNS	Domain Mode	O Default Domain 🌒 Custom Domain Name	
IP FILTER	Domain Name	9002A9C48FD2	
EMAIL FTP	Email Address	(Optional)Please input email address.	
UPnP		Save Refresh Default	

Below is an explanation of the fields that can be configured on DDNS settings screen when set to AmcrestDDNS type:



Parameter	Function
DDNS Type	This dropdown box is used to select which DDNS service is being used on the DVR.
Server IP Address	This field allows the user to enter the IP address for the server used by the specific DDNS service.
Domain Name	This field is where the domain name from the AmcrestDDNS service is entered.

To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

IP Filter

This screen allows for the filtering of IP addresses, either blocking them, or granting them access to the DVR. This feature helps make the DVR more secure by limiting remote access only to approved users. Below is a screenshot of the IP Filter screen:

	E S T	Live	Playback Alarm		★ ① C→ 14:40:58
O CAMERA	IP Filter				
	🖌 Enable 🛛 O	Trusted Sites 🌘 Blocked Site	es		
CONNECTION	Trusted Sites	Blocked Sites			
PPPoE		IP Addres	s	Edit	Delete
DDNS					^
IP FILTER					
EMAIL					
FTP					
UPnP					
REGISTER					
ALARM CENTER					*
HTTPS	Add				
	Save	Refresh Default			

Below is an explanation of fields on the IP Filter settings screen:

- Enable: This checkbox allows the user to enable the IP Filter feature. Many of the other fields below cannot be edited if this checkbox is not checked.
- Type: This radio button allows the user to select an IP address type. There are two types of IP addresses that can be used by this feature. Only one of them can be activated at a time.
 Trusted Sites: This setting allows the user to enter trusted IP addresses. All other addresses will be blocked.
 Blocked Sites: This setting allows all IP addresses, but blocks the ones that are specified.
- Delete: This button allows a user to remove a specific IP address from the IP Filter list.
- Edit: This button allows a user to edit start or end addresses.

To add another line item, click the Add button. To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.



<u>Email</u>

This screen allows for the configuring of email settings to permit the DVR to send emails when the connected cameras or alarms are triggered. Below is a screenshot of the email settings screen:

	EST	Live Playback Alarm	O → 14:42:24
CAMERA	Email		
	Enable		
TCP/IP CONNECTION	SMTP Server	MailServer	
PPPoE	Port	25	
DDNS	Anonymous		
IP FILTER	User Name		
FTP	Password		
UPnP	Sender		
SNMP	Encrypt Type	NONE	
REGISTER	Subject	HCVR ALERT I Attachment	
ALARM CENTER	Receiver	• • • • • • • • • • • • • • • • • • •	
HTTPS			
	Interval	120 Second (0-3600)	
SYSTEM	Health Enable	60 Minute (30~1440)	
		Save Refresh Default	

Below is an explanation of the fields on the Email settings screen:

Parameter	Function
Enable	This checkbox allows the user to enable the email feature.
SMTP Server	SMTP stands for Simple Mail Transfer Protocol. This field allows the user to enter the SMTP server used by the email service.
Port	This field allows the user to enter the port that corresponds to the selected SMTP server.
Anonymity	This checkbox allows the user to anonymously login to the server.
User Name	This field allows the user to enter the username used to login to the selected SMTP server.
Password	This field allows the user to enter the password associated with the SMTP username.
Sender	This field allows the user to enter the sender email address. This email address will be the one that sends out all emails pertaining to the alerts and alarm emails sent by the DVR.
Encryption Type	This dropdown box allows the user to select an encryption type. There are two types of email encryption that are available. SSL: Secure Socket Layer TLS: Transport Layer Security
Subject	This field allows the user to define the subject line of the email that is sent to the receivers.
Attachment	This checkbox allows the user to enable the attachment of screenshots with emails.



Parameter	Function
Receiver	This field allows the user to enter the receiver email address. These email addresses are the ones that will receive any emails pertaining to alert and alarm emails sent by the DVR. Up to 3 email addresses can be entered in this field.
Interval	This field allows the user to define, in seconds, how many events can be triggered concurrently.
Health Enable	This checkbox allows the user to enable the function that causes the system to send out a test email to ensure if the connection is OK or not.
Email Test	This button causes the system to automatically send out an email once to test the connection is OK or not. Prior to the email test, please save the email setup information.

To email a test email, click the Test Email button. To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

<u>FTP</u>

FTP stands for File Transfer Protocol. This protocol allows for remote uploading of files to a server. This feature requires the use of an FTP tool on a computer in order to enable the use of FTP features on the DVR.

Once an FTP tool has been acquired, installed, and configured to allow read, write, append, and delete access, then the DVR can be configured to use FTP. Below is a screenshot of the FTP menu screen:

	E S T	L	.ive P	layback	Alar	m		\$ 0	G⇒	14:44:44
CAMERA	FTP									
SUMETWORK TOP/IP CONNECTION PPP0E DDNS IP FILTER EMAIL FTP UPnP SNMIP MULTICAST	Enable Server IP Port User Name Password Remote Directory File Length Image Upload Interval Channel	0.0.0	0 2 A	nonymous						
REGISTER ALARM CENTER HTTPS EVENT STORAGE SYSTEM	Weekday Time Period 1 Time Period 2	Wednesday 00 00 - 2 00 00 - 2 FTP Test Save - 2	24 : 00 24 : 00 Refresh	Alarm Alarm Def	I MD I MD Iault	Regular Regular				

Below is an explanation of the fields on the FTP settings screen:

- Enable: This checkbox allows the user to enable the FTP feature for the DVR.
- Server IP: This field allows the user to enter the FTP server IP address and port.
- User Name: This field allows the user to enter the FTP username.
- Password: This field allows the user to enter the FTP server password. The checkbox next to this field enables anonymous access to the FTP.
- Remote Directory: This field allows the user to designate which folder the DVR will upload files to.
- File Length: This field allows the user to dictate how large upload files can be.



- Image Upload Interval: This field allows the user to define, in seconds, how often images can be uploaded to the FTP server.
- Channel: This field allows the user to pick a channel to set FTP settings for.
- Weekday: This field allows the user to pick a day of the week to set FTP settings for.
- Time Period 1: This field allows the user to specify a time period and what types of files to upload (Alarm, Motion, and Regular).
- Time Period 2: This field allows the user to specify a time period and what types of files to upload (Alarm, Motion, and Regular).

To test the FTP, click the Test FTP button. To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

<u>UPnP</u>

UPnP stands for Universal Plug and Play, and it is a protocol used to easily connect devices to the internet. In the case of this DVR, it allows the DVR to connect to the router in an easy manner to quickly allow for remote connection. Below is a screenshot of the UPnP settings screen:

	ST		Live Playback	Alarm			\$ 0	G→ 14:47:19
	UPnP							
	PAT	Enable O	Disable					
PPPoE	LAN IP	0.0.	0 - 0					
IP FILTER	WAN IP Port Mapping I	0 - 0 -	0 - 0					
EMAIL	No.	v	Service Name	Protocol	internal Port	External Port	Modify	Delete
LIPnP	1	2	HTTP	TCP			2	• ^
SNMP	2	2	TCP	TCP	37777	37777	2	9
MULTICAST	3	2	UDP	UDP	37778	37778	2	•
PECIPTER	4		RTSP	UDP	554	554	2	9
	5		RTSP	TCP	554	554	2	•
ALARM CENTER	6	v	SNMP	UDP	161	161	<u> </u>	9
HIIPS	7	2	HTTPS	TCP	443	443	2	0
								*
		1						
	Add							
	Save	Refresh	Default					

Below is an explanation of the fields in the UPnP settings screen:

- PAT: PAT stands for Port Address Translation, and it is something that the UPnP protocol handles. This checkbox allows the user to enable UPnP on the device.
- UPnP Status: This field shows the UPnP status and has two options:
- Unknown: This means that UPnP is offline.
- Successful: This means that UPnP is working.
- Router LAN IP: This field allows the user to enter the IP address of the router that the DVR is trying to connect to.
- WAN IP: This field is where the DVR Wide Area Network (WAN) IP is populated. This IP address is what is used to remotely access the DVR through web access.
- PAT Table: This table is used to show how the ports for each protocol listed below have been remapped by the UPnP protocol.
- The first column shows the order of the services.
- The second column shows the name of the services. To edit this, double click on the service line item.



- The third column shows the name of the protocol used by that service. To edit this, double click on the service line item.
- The fourth column shows the Internal Port used by that service. To edit this, double click on the service line item.
- The fifth column shows the External Port used by that service. To edit this, double click on the service line item.

To view a video on how to remotely access your DVR using UPnP, go to <u>http://amcrest.com/videos</u> and view the video titled "How to Gain Remote Access to Your HDCVI DVR with Universal Plug and Play".



To view more information on how to set up the HDCVI DVR for remote access using UPnP, see section 5.2.1.

To add another line item, click the Add button. To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

Multicast

Multicast is a feature that enables the DVR to broadcast its live view to multiple computers on the same network. Below is a screenshot of the multicast screen:

	EST	Live Playback Alarm	
	Multicast		
	Enable		
CONNECTION	IP Address	239 . 255 . 42 . 42 (224.0.0.0~239.255.255.255)	
PPPoE	Port	36666 (1025~65000)	
DDNS IP FILTER		Save Refresh Default	

Below is an explanation of the fields in the Multicast settings screen:

- Enable: This checkbox allows the user to enable the Multicast feature for the DVR.
- IP Address: This field allows the user to enter the multicast IP address.
- Port: This field allows the user to enter the port number for the multicast IP address.
 - For more information on how to configure multicast, see the information below.

Multicast IP Address Range (IPV4): 224.0.0.0 through 239.255.255.255

Well-knov	Well-known IPv6 multicast addresses		
Address	Description		
ff02::1	All nodes on the local network segment		
ff02::2	All routers on the local network segment		
ff02::5	OSPFv3 All SPF routers		
ff02::6	OSPFv3 All DR routers		
ff02::8	IS-IS for IPv6 routers		
ff02::9	RIP routers		
ff02::a	EIGRP routers		
ff02::d	PIM routers		
ff02::16	MLDv2 reports (defined in RFC 3810)		



ff02::1:2	All DHCP servers and relay agents on the local network segment (defined in RFC 3315)		
ff02::1:3	All LLMNR hosts on the local network segment (defined in RFC 4795)		
ff05::1:3	All DHCP servers on the local network site (defined in RFC 3315)		
ff0x::c	Simple Service Discovery Protocol		
ff0x::fb	Multicast DNS		
ff0x::101	Network Time Protocol		
ff0x::108	Network Information Service		
ff0x::181	Precision Time Protocol (PTP) version 2 messages (Sync, Announce, etc.) except peer delay measurement		
ff02::6b	Precision Time Protocol (PTP) version 2 peer delay measurement messages		
ff0x::114	Used for experiments		

To revert to default settings, click the Default button near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Register

The register feature allows the DVR to register itself with a specified proxy, so that the DVR can be remotely accessed via a proxy. A proxy is a computer server that acts as an intermediary between client computers that are seeking resources from a server. Below is a screenshot of the Register settings screen:

	EST	Live	Playback Ala	arm	✿ ① → 14:50:25
	Auto Register				
NETWORK					
TCP/IP	Enable				
CONNECTION	Server IP	0.0.0			
PPPoE	Port	8000			
DDNS	Sub-device ID	0			
IP FILTER					
EMAIL		Save Ref	resh Default		

Below is an explanation of the fields on the Register settings screen:

- Enable: This checkbox allows the user to enable the Register feature for the DVR.
- No: This dropdown box allows the user to select the proxy number. Currently the DVR can only configure one proxy.
- Server IP Address: This field allows the user to enter the proxy server IP address.
- Port: This field allows the user to enter the proxy port number.

Note: Do not enter a network default port for this port number. It may result in a port conflict.

• ID: This field allows the user to enter the proxy ID number.

To confirm settings, click the Save button near the bottom right hand corner. To refresh the page, click the Refresh button. To revert to default settings, click the Default button near the bottom left hand corner.



Alarm Center

The alarm center feature is used to allow users to connect the DVR to their alarm server, so the server can receive a notice when certain events happen. One common use for the alarm center is to send daily reports on the status of the DVR's connection to the network.

Below is a screenshot of the Alarm Center settings screen:

	EST	Live Playback Alarm	🔅 🙃 🕞 11:40.57
CAMERA	Alarm Center		
RETWORK	_		
TCP/IP	Enable		
CONNECTION	Protocol Type	Private •	
PPPoE	Server IP	10 . 1 . 0 . 2	
DDNS	Port	1	
IP FILTER			
EMAIL	Selfreport Time	Everyday 🔹 at 08:00 🔹	
FTP		Save Refresh Default	
UPnP			

Below is an explanation of the fields on the Alarm Center settings screen:

- Enable: This checkbox allows the user to enable the Alarm Center feature for the DVR.
- Protocol Type: This field allows the user to select which protocol type they want to use for the alarm. Currently, only the private protocol type is available.
- Server IP: This field allows the user to enter the IP address of the alarm server.
- Port: This field allows the user to enter the port number of the alarm server.
- Self-Report Time: This field allows the user to enter a time of the day when they want to receive a report about the DVR's connection to the network each day.

To confirm settings, click the Save button near the bottom right hand corner. To refresh the page, click the Refresh button. To revert to default settings, click the Default button near the bottom left hand corner.

P2P

The P2P settings screen is where users can use a QR code to connect their smartphone or tablet to the DVR. The HDCVI uses an app called Amcrest View, and it is available on both iOS and Android. Below is a screenshot of the P2P settings screen:





Below is an explanation of the fields on the P2P settings screen:

- Enable: This checkbox allows the user to enable the P2P feature for the DVR.
- Connect Status: This field shows the status of the P2P connection. Once connected using the app, this field should display the word Online
- SN: This is an alternate string of characters used to denote the QR code in case the QR code scanner isn't working.
- QR Code: This is the unique QR code used to help the app user connect to the DVR
- Note: The physical design of the QR code may change based on the network settings used. All QR code connections should be made with the image that displays on this screen, and not through any static saved images.
- To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button. To confirm settings, click the Save button.

To confirm settings, click the Save button. To refresh the page, click the Refresh button.

Event

Video Detect

Main Menu -> Settings -> Event -> Detect opens the Detection interface. Here there are 3 options, each representing a detection type: Motion Detection, Video Loss, and Tampering.

Tips:

- The video loss and tampering screens have no detection regions or sensitivity setup.
- The motion detection icon will be present if the motion detection alarm has been triggered on the current channel.
- To set the motion detection region, click and drag the mouse over the region desired. Once the region has been set, click the OK button to save the current region setup, and right click on the mouse to exit the motion detection interface.

Motion Detect

The motion detection settings screen is where motion detection can be setup for each individual channel. Based on the active motion detection region, the DVR can generate a motion detection alarm when a moving signal is detected in a specified area. Below is a screenshot of the motion detection settings screen:





Below is a screenshot of the period setup screen:

Setup		_	×
	Wednesday 🔻	Сору	
3	☑ 00 : 00 -	24 : 00	
	00 : 00 -	24 : 00	
3	- 00 : 00	24 : 00	
	00 : 00 -	24 : 00	
3	00 : 00 -	24 : 00	
	- 00 : 00	24 : 00	
	Save	Cancel	

Below is a screenshot of the region setup screen:



Below is a screenshot of the PTZ Activation screen:



PTZ Activation	-	-	-	×
Channel 1	None	Ŧ	0	
Channel 2	None	•	0	
Channel 3	None	•	0	
Channel 4	None	۲	0	
Channel 5	None	•	0	
Channel 6	None	•	0	
Channel 7	None	۲	0	
Channel 8	None	•	0	
	Save	Cance	I	

Below is a description of the fields on the Motion Detection settings page:

Parameter	Function
Enable	This checkbox allows the user to enable the motion detection function for a specific channel.
Period	This setup button takes the user to the motion detection period settings screen.
Anti-dither	This field allows the user to set the anti-dither time. The values in this field can range from 5 to 600 seconds. This time value controls how long the alarm signal lasts. Based on motion detection, a buzzer can go off, a tour can begin, PTZ can be activated, a snapshot can be taken, or a channel can begin recording. For example, if the anti-dither time is set to 10 seconds, each alarm may last 10 seconds if the local alarm is activated. During the process, if the system detects another local alarm signal at the fifth second, the buzzer, tour, PTZ activation, snapshot, record channel functions will begin another 10 seconds while the screen prompt, alarm upload, email will not be activated again. After 10 seconds, if system detects another alarm signal, it can generate a new alarm since the anti- dither time has expired.



Region	The setup button takes the user to the motion detection region setup screen for that specific channel. When the setup button is clicked, the current channel's interface comes into a full screen view. The user can then set up to 4 regions, each with their own region name, sensitivity (1-100), and threshold (1-100). Each region has a specific color, and the region selector tool is displayed when the mouse is moved to the top of the screen. Sensitivity is the amount of change required to increase the motion detected by a percentage. The lower the sensitivity, the more movement is required to trigger an alarm. Threshold is the level that the motion detection needs to reach in order to trigger an alarm. The lower the threshold, the more likely that motion will trigger an alarm. To designate a zone, click and drag the mouse over the area desired. When a colored box is displayed over the live feed, that area is now enabled for motion detection. Clicking the FN button will switch the mode between armed and disarmed, so that clicking and dragging the mouse can either designate a motion detection zone or remove any motion detection zone markers. After the motion detection zone is set, click the enter button to exit the motion detection settings screen, otherwise the motion detection zone swill not go into effect. Clicking the escape button to leave the motion detection zone and will not save the zone setup.
Record	This checkbox allows the user to enable the system to record video for that
Channel	channel when a motion detection alarm is triggered.
Record Delay	This field specifies in seconds how long the delay between alarm activation and PTZ activation should be.
PTZ Activation	This checkbox allows the user to enable the system to activate PTZ movement when a motion detection alarm is triggered. To setup the PTZ activation settings, click the setup button next to PTZ activation. the PTZ Activation screen, each camera can be setup to perform a preset PTZ action based upon motion detection.
Tour	This checkbox allows the user to enable the system to cause a PTZ tour to occur when a motion detection alarm is triggered. Multiple cameras can be specified to perform a tour.
Snapshot	This checkbox allows the user to enable the system to take a snapshot when a motion detection alarm is triggered. Multiple cameras can be specified to perform a tour.
Alarm out	This checkbox allows the user to enable the system to upload alarm information when a motion detection alarm is triggered.
Buzzer	This checkbox allows the user to enable the system to activate a buzzer when a
	motion detection alarm is triggered.

To copy settings to another channel, click the Copy button. To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.



Video Loss

The video loss settings screen is where the DVR can be setup to notify the user any time there is video loss on any of the channels. Below is a screenshot of the video loss settings screen:



Below is a screenshot of the period setup screen:

Setup		×
	Wednesday Copy	
	☑ 00 : 00 - 24 : 00	
	00:00 - 24:00	
	00:00 - 24:00	
	00:00 - 24:00	
	00:00 - 24:00	
	00:00 - 24:00	
	Save Cancel	

Below is a screenshot of the PTZ Activation screen:



Channel 2 None 0 Channel 3 None 0 Channel 4 None 0 Channel 5 None 0	-
Channel 2 None Image: Oliver of the state of the stat	
Channel 3NoneImage: 0Channel 4NoneImage: 0Channel 5NoneImage: 0	- 8
Channel 4 None Image: 0 Channel 5 None Image: 0	
Channel 5 None 🔹 0	
Channel 6 None 🔹 0	
Channel 7 None 🔹 0	
Channel 8 None 🔻 0	

Below is a description of the fields on the Video Loss settings page:

Parameter	Function		
Enable	This checkbox allows the user to enable the video loss function for a specific channel.		
Period	This setup button takes the user to the video loss period settings screen.		
Record Channel	This checkbox allows the user to enable the system to record video for that channel when a video loss alarm is triggered.		
Record Delay	This field specifies in seconds how long the delay between alarm activation and PTZ activation should be.		
PTZ Activation	This checkbox allows the user to enable the system to activate PTZ movement when a video loss alarm is triggered. To setup the PTZ activation settings, click the setup button next to PTZ activation. the PTZ Activation screen, each camera can be setup to perform a preset PTZ action based upon video loss.		
Tour	This checkbox allows the user to enable the system to cause a PTZ tour to occur when a video loss alarm is triggered. Multiple cameras can be specified to perform a tour.		
Snapshot	This checkbox allows the user to enable the system to take a snapshot when a video loss alarm is triggered. Multiple cameras can be specified to perform a tour.		
Alarm out	This checkbox allows the user to enable the system to upload alarm information when a video loss alarm is triggered.		
Buzzer	This checkbox allows the user to enable the system to activate a buzzer when a video loss alarm is triggered.		
Show message	This checkbox allows the user to enable the system to show an on-screen message when a video loss alarm is triggered.		



To copy settings to another channel, click the Copy button. To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

Tampering

The tampering settings screen is where the DVR can be setup to notify the user any time a camera is tampered with or if the output video is only displaying in one color. Below is a screenshot of the video tampering settings screen:



Below is a description of the fields on the Tampering settings page:

- **Channel:** The channel dropdown menu is used to select which channel you would like to use to set your motion detection.
- **Enable:** This checkbox allows the user to enable the motion detection function for a specific channel. To select a channel, click on the drop-down menu provided on the right.
- **Period:** This setup button takes the user to the motion detection period settings screen. Below is a screenshot of the motion detection period settings screen.





- Click and drag on the green bars to specify time zones for motion detection. To edit multiple days at once, either click the checkboxes next to the names, or click the checkbox next to All to edit all the days at once. Once the checkbox is clicked, press save to save and apply your detection settings. Click Cancel to undo any changes and return to the motion detection settings screen. Click Default to use the default settings.
- To specify time zones in greater detail for each day, click the Setup button to the left of the time bar, and the Time Period setup screen will appear. The screenshot below shows the Time Period settings screen:
- The system allows for the configuration of up to 6 different time periods. Click the checkbox to the left of the time period to enable that time period. Click the text next to each period to edit the time period. To copy time periods, click the checkboxes next to the days of the week that you'd like to copy the settings to. Once finished on this screen, click Save to return to the time period settings screen.
 - **CAM Anti-Dither:** This field allows the user to set the anti-dither time. The values in this field can range from 5 to 600 seconds. This time value controls how long the alarm signal lasts. Based on motion detection, a buzzer can go off, a tour can begin, PTZ can be activated, a snapshot can be taken, or a channel can begin recording.
 - For example, if the anti-dither time is set to 10 seconds, each alarm may last 10 seconds if the local alarm is activated. During the process, if the system detects another local alarm signal at the fifth second, the buzzer, tour, PTZ activation, snapshot, record channel functions will begin another 10 seconds while the screen prompt, alarm upload, email will not be activated again. After 10 seconds, if system detects another alarm signal, it can generate a new alarm since the anti-dither time has expired.
 - **Record Channel:** This checkbox allows the user to enable the system to record video for that channel when a motion detection alarm is triggered. Delay is also associated with this tab, it is the This field specifies in seconds how long the delay between alarm activation and recording should be.



- Sensitivity Allows the user to set a preset sensitivity setting for motion detected events.
- **PTZ Activation:** Allows the user to active PTZ functionality to applicable PTZ devices.
- Tour: Allows the user to enable the camera to activate a PTZ tour when a motion detection alarm is triggered.
- Snapshot: Allows the user to enable the camera to take a snapshot when a motion detection alarm is triggered.
- Voice Prompts: Allows the user to customize voice prompts for motion detected events.
- Show Message: This checkbox allows the user to enable the system to show an on-screen message when a motion detection alarm is triggered.
- Send Email: This checkbox allows the user to enable the system to send an email when a motion detection alarm is triggered.
- Buzzer: Allows the user to trigger a buzzer once a motion event is detected.
- Log: Allows the user to log all motion detected events that are triggered in the device.
- Alarm Upload: This checkbox allows the user to enable the system to upload alarm information when a motion detection alarm is triggered.

To revert to default settings, click the Default button near the bottom left hand corner. To copy settings to another channel, click Copy near the bottom left hand corner. To test a channel's motion detection, click Test near the bottom left hand corner. To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Abnormality

This screen is used to specify system action in the case of either hard drive abnormality, or network abnormality.

	ST	PREVIEW PLAYBACK ALARM	
CAMERA	HDD	Network User	
S NETWORK	Event Type	No HDD Y	
EVENT	Enable		
 > VIDEO DETECT > ABNORMALITY 	Voice Prompts	File Name	
	 Snow Message Alarm Upload 	Seno Email 🖬 Buzzer 🖬 Log	
SYSTEM		Save Refresh	

HDD

This screen allows the user to specify actions that occur when there is an abnormality with the DVR's hard disk drive (HDD). Below is a screenshot of the HDD settings screen:

Parameter	Function
Error Type	Error Type: This field allows the user to specify which HDD abnormality event type they would like to configure settings for. No Disk: No hard drive is detected. Disk Error: The hard drive has an error. Disk No Space: The hard drive is about to or has run out of space. Less Than: This field allows the user to specify at what percentage of free disk space this condition should be triggered.



Enable	This checkbox allows the user to enable the features below for the specified event type.
Show message	This checkbox allows the user to enable the system to show an on-screen message when an HDD error occurs.
Send Email	This checkbox allows the user to enable the system to send an email when an HDD error occurs.
Buzzer	This checkbox allows the user to enable the system to activate a buzzer when an HDD error occurs.

To confirm settings, click the Save button. To refresh the page, click the Refresh button.

Network

This screen allows the user to specify actions that occur when there is an abnormality with the DVR's hard disk drive (HDD). Below is a screenshot of the HDD Abnormality settings screen:



Below is an explanation of the fields on the Network Abnormality settings screen:

Parameter	Function
Error Type	Event Type: This field allows the user to specify which Network abnormality event type they would like to configure settings for. Net Disconnected: The network connection has been disconnected. IP Conflict: There is a device on the network with the same IP address. MAC Conflict: There is a device on the network with the same MAC address.
Enable	This checkbox allows the user to enable the features below for the specified event type.
Show message	This checkbox allows the user to enable the system to show an on-screen message when a network error occurs.
Send Email	This checkbox allows the user to enable the system to send an email when a network error occurs.
Buzzer	This checkbox allows the user to enable the system to activate a buzzer when a network error occurs.
Delay	This field specifies in seconds how long the delay between alarm activation and buzzer activation should be.

To confirm settings, click the Save button. To refresh the page, click the Refresh button.



Storage

This set of menu items deal with storage of data on the DVR.

Schedule

This screen is used to specify the recording schedule for both recorded video and snapshots. This tab is where video recording settings are configured. Below is a screenshot of the Schedule settings screen:



Below is a screenshot of the time period setup screen:

Setup		×
Time Period 1 00 : 00 - 24	4 : 00 🗹 Regular 📕 MD 📕	Alarm MD&Alarm
Time Period 2 00 : 00 - 24	4 : 00 🔳 Regular 🖬 MD 🛛	Alarm MD&Alarm
Time Period 3 00 : 00 - 24	4 : 00 🔲 Regular 🖬 MD 🛛	Alarm MD&Alarm
Time Period 4 00 : 00 - 24	4 : 00 🔲 Regular 🖬 MD 🛛	Alarm 🔲 MD&Alarm
Time Period 5 00 : 00 - 24	4 : 00 🔲 Regular 🖬 MD 🛛	Alarm MD&Alarm
Time Period 6 00 : 00 - 24	4 : 00 🔲 Regular 🖬 MD 🛛	Alarm MD&Alarm
🖬 All 🛛 Sunday 🖬 Monda	ay 📕 Tuesday 📕 Wednesday 📕 Th	ursday 📕 Friday 📕 Saturday
Holiday		
	Save Cancel	

Below is a screenshot of the copy screen:





Below is an explanation of the fields on the Schedule settings screen:

Parameter	Function
Channel	This dropdown box allows the user to pick which channel they would like to change video recording settings for.
Pre-record	This field allows the user to capture extra video that occurs before an event. Up to 30 seconds of video prior to a recording event can be captured in order to provide context to a recording.
Redundancy	This checkbox allows the user to enable the redundancy backup feature. This feature allows the DVR to record video to two hard drives concurrently in order to ensure that in the case of a hard drive failure, the recorded data may be backed up to another hard drive. Note: This function only works if the HDD has two hard drives installed. Note: One hard drive has to be designated as redundant from the HDD Manager menu. See section 4.10.5.2 for more details.
Holiday	This dropdown box allows the user to enable the holiday function. Holiday settings are configured in the System settings section. See section 4.10.4.1.3 for more information on holiday settings.
Setup	In order to specify time zones in greater detail for each day, click the setup button to the left of the time bar, and the Time Period setup screen will appear. The system allows for the configuration of up to 6 different time periods. Click the checkbox to the left of the time period to enable that time period. Click the text next to each period to edit the time period. To copy time periods, click the checkboxes next to the days of the week that you'd like to copy the settings to. Once finished on this screen, click Save to return to the time period settings screen.

To copy settings to another channel, click the Copy button. To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

Snapshot

This tab is where snapshot recording settings are configured. Below is a screenshot of the Snapshot settings screen:



	ST	PREVIEW PLAYBA	ACK ALARM	
CAMERA	Record Snapsho	ot		
NETWORK	Channel 1	÷		
		-	Regular 🔜 MD 📕 Alarm 📕 MD&Alarm	
	Sunday		<u>14</u> 16 18 20 22 24	Set
> HDD MANAGE	Monday			Set
> RECORD	Tuesday			Set
SYSTEM	Wednesday			Set
	Thursday			Set
	Friday			Set
	Saturday			Set
	Сор	y Save	Refresh Default	

Below is a screenshot of the time period setup screen:

Setup		×
Time Period 1 00 : 00 - 24	: 00 🛛 Regular 🔲 MD 🛛 Alarm	MD&Alarm
Time Period 2 00 : 00 - 24	: 00 🔲 Regular 📕 MD 🛛 🔲 Alarm	MD&Alarm
Time Period 3 00 : 00 - 24	: 00 🔲 Regular 🖬 MD 🛛 🔳 Alarm	MD&Alarm
Time Period 4 00 : 00 - 24	: 00 🔲 Regular 🖬 MD 🛛 🔲 Alarm	MD&Alarm
Time Period 5 00 : 00 - 24	: 00 🔲 Regular 🖬 MD 🛛 🔲 Alarm	MD&Alarm
Time Period 6 00 : 00 - 24	: 00 🔲 Regular 🔲 MD 🛛 🔲 Alarm	MD&Alarm
🔲 All 🛛 🖾 Sunday 🛄 Monda	y 🔳 Tuesday 📕 Wednesday 📕 Thursday	🔳 Friday 🔳 Saturday
Holiday		
	Save Cancel	

Below is a screenshot of the copy screen:





Below is an explanation of the fields on the Snapshot settings screen:

Parameter	Function
Channel	This dropdown box allows the user to pick which channel they would like to change snapshot recording settings for.
Holiday	This dropdown box allows the user to enable the holiday function. Holiday settings are configured in the System settings section. See section 4.10.4.1.3 for more information on holiday settings.
Setup	In order to specify time zones in greater detail for each day, click the setup button to the left of the time bar, and the Time Period setup screen will appear. The system allows for the configuration of up to 6 different time periods. Click the checkbox to the left of the time period to enable that time period. Click the text next to each period to edit the time period. To copy time periods, click the checkboxes next to the days of the week that you'd like to copy the settings to. Once finished on this screen, click Save to return to the time period settings screen.

To copy settings to another channel, click the Copy button. To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

HDD Manage

This screen is meant to help the user monitor the DVR's hard drives. Using this screen, the user can see the current HDD type, status, and capacity. The user can also use this screen to format hard drives and change hard drive properties. Below is a screenshot of the HDD Manage settings screen:



	EST	PREVIEW PLAYBA	ACK ALARM		¢ 0	[→ 12:36:35
CAMERA	HDD MANAGE					
S NETWORK	SATA 1					
	Ŭ					
	Device Name	HDD Operation	Туре	Status	Free Space/Total Space	Start Time/End Time
> SCHEDULE	SATA-1	Read-Write V	Read-Write	Normal	923.13GB / 931.4GB	2018-10-10 11:49:13 / 2018-10-10 12:36:01
> RECORD						
💻 SYSTEM						
						~
	Save	Refresh Format				

Below is an explanation of the fields on the HDD Manage settings screen:

- SATA: This shows how many hard drives the system can support. \circ 1 here means the system supports a maximum of 1 HDD.
- o The symbol on the next row shows the status of the connected hard drive.
- 0 means that the current HDD is functioning normally.
- X means there is an error with the hard drive connection, or that there is no connected hard drive.
- ? means that the hard drive is damaged and should be replaced.
- Hard Drive List:
- This shows what hard drives are currently connected to the DVR and displays information about them.
- Device Name: This column shows the names of the connected hard disk drives (HDD).
- Type: This column shows the type of access the DVR has to the hard drive. To change a hard drive's type, click the downward arrow next to the HDD's type and select the desired type. There are 3 possible settings:
- Read-Only: This allows the DVR to read the data, but not modify it in anyway.
- Write-Only: This allows the DVR to write data to the HDD, but not read any data from it.
- Read/Write: This allows the DVR to both read and write data on the HDD.
- Status: This column shows the status of the connected hard drive. There are 3 statuses:
- Normal: This means the hard drive is operating normally.
- Error: This means the DVR is experiencing an error when attempting to access the hard drive.
- Disconnected: This means that the HDD has disconnected from the DVR.
- Free Space/Total Space: This field shows the free space on the hard drive compared to its total capacity.

To confirm settings, click the Save button. To refresh the page, click the Refresh button. To format a hard drive, click the Format button.

Record

This screen allows the user to specify which channels can record and take snapshots. The settings on this screen supersede all others when it comes to allowing channels the ability to record information. Below is a screenshot of the Record screen:



	ST	PREVIEW	PLAYBACK ALARM	
CAMERA	Record			
	Main Stream All 1	2 3 4		
	Auto O C			
STORAGE	Manual 💿 🌘	• • •		
> SCHEDULE	Stop 💿 🌒	• • •		
> RECORD	Auto 💿 🤅	• • •		
SYSTEM	Manual O	• • • • • •		
	Snapshot			
	Enable O O			
	Stop 🔵 🌔	• • •		
		Save Re	fresh	

Below is an explanation of all the fields on the Record settings page:

- Main Stream: The main stream is the stream through which the channels transmit data by default. There are 3 settings that can be used for the main stream.
- Schedule: Channels will record as they have been scheduled, and not in any other capacity.
- o Manual: Channels will support all recording type. This includes scheduled recording.
- Stop: Channels will not record in any capacity. This includes scheduled and manual recording.
- Extra Stream: Otherwise known as the sub stream, this stream allows for additional data to be transmitted. There are 3 settings that can be used for the main stream.
- Schedule: Channels will record as they have been scheduled, and not in any other capacity.
- Manual: Channels will support all recording type. This includes scheduled recording.
- Stop: Channels will not record in any capacity. This includes scheduled and manual recording.
- Snapshot: This set of options can either enable or disable the snapshot functionality for specific channels.

To confirm settings, click the Save button. To refresh the page, click the Refresh button.

System

General

This screen displays general settings for the DVR. Below is a screenshot of the general settings screen:



	ST	PREV	IEW PLAYBACK	ALARM	\$	0	G+ °	12:37:25
CAMERA	General	Date&Time	Holiday					
	Device Name	XVR						
	Device No.	8						
	Language	ENGLISH	~					
SYSTEM	Video Standard HDD Full	NTSC Overwrite	~					
> GENERAL	Pack Mode	Time Length	✓ 60	min.				
> DISPLAY	Auto Logout	10	min. (0-60)					
> VOICE	Startup Wizard Navigation Bar	⊻						
> AUTO MAINTAIN		Save	Refresh	Default				
> IMP/EXP								
> DEFAULT								
> UPGRADE								

Parameter	Function
Device ID	This field allows the user to customize the name of the HDCVI.
Device No.	This field allows the user to customize the device's number.
Language	This dropdown box allows the user to select a language for the DVR. Options include English, Simplified Chinese, Traditional Chinese, Italian, Japanese, French, and Spanish. Please note the device needs to reboot to activate the modification.
Video Standard	This dropdown box allows the user to select a video standard. The options are between PAL and NTSC.
HDD Full	This dropdown box allows the user to specify what to do when the HDD is full. There are two options: Overwrite: This option lets the DVR overwrite the oldest recorded video on the DVR. Stop Record: This option causes the DVR to stop recording once the HDD is full.
Pack Duration	This field allows the user to define the recording duration. The default value is 60 minutes
Auto Logout	This field allows the user to define in minutes how long the system can stay idle before a user is logged out. The value can range from 0 to 60 minutes.
Startup Wizard	This checkbox allows the user to enable the startup wizard the next time the system is restarted.
Navigation Bar	This checkbox allows the user to enable the navigation bar that shows on the main screen.

To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

Date & Time

This screen displays date and time settings for the DVR. Below is a screenshot of the Date & Time settings screen:



	EST	Live Playback Alarm	
	General	Date& Time Holiday	
	Date Format Time Format	YYYY MM DD •	
STORAGE	Time Zone System Time	GMT+08:00 ▼ 2014 - 09 - 11 12 : 11 : 22 Sync PC	
GENERAL DISPLAY BAN/TII T/ZOOM	DST DST Type	O Date Day of Week	
TEXT OVERLAY ACCOUNT	Start Time End Time	2000 - 01 - 01 00 : 00 2000 - 01 - 01 00 : 00	
AUTO MAINTAIN CONFIG BACKUP	☑ NTP Server	time windows.com Manual Update	
DEFAULT UPGRADE	Port Interval	123 (1~65535) 60 Minute (0~65535)	
	(Save Refresh Default	

Below is an explanation of the fields on the Date & Time settings screen:

Parameter	Function
Date Format	 This dropdown box allows the user to specify a date and time format for the DVR to use. There are 3 options. YYYY MM DD: Year, Month, Day. MM DD YYYY: Month, Day, Year. DD MM YYYY: Day, Month, Year.
Time Format	Time Format: This dropdown box allows the user to specify a time format for the DVR to use. There are two options. 24 Hour 12 Hour
Time Zone	This dropdown box allows the user to specify a time zone for the DVR to use.
System Time	This field allows the user to set the system time and time zone. Click Save to save the system time as it is shown in the display.
Sync PC	Click this button to save the DVR system time as your PC's current time.
DST	This checkbox allows the user to enable DST on the DVR. This fields below it allow the user to set DST settings such as DST type, start time, and end time.
NTP	NTP stands for Network Time Protocol. This checkbox allows the user to enable the use of an NST server to synchronize the date and time settings on the DVR.
NTP Server IP	This field allows the user to set the NTP server IP address. Clicking the Manual Update button pulls a time update from the server.
NTP Port Number	This field allows the user to set the NTP server port number.



Interval	This field allows the user to set the NTP synchronization interval. This number
	determines how often the DVR queries the NTP server to get accurate date and
	time information. This value can be between 0 and 60 minutes.

To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

Holiday

This screen displays the holiday settings for the DVR. Below is a screenshot of the Holiday settings screen:

	ST		Live Playbac	k Alarm		\$ 0	[→ 23:14:59
	General	Date&Time	Holiday				
NETWORK							
	r						DDA
	No.	Status	Holiday Name	Date	Period	Edit	Delete
SYSTEM	1	Open 🔻	labor day	8.27	1 day(s)	2	· · · · · · · · · · · · · · · · · · ·
DISPLAY							
PAN/TILT/ZOOM							
TEXT OVERLAY							
ACCOUNT							
AUTO MAINTAIN							
CONFIG BACKUP							*
DEFAULT	Save	Refresh					
UPGRADE							

Below is an explanation of the fields on the Holiday settings screen:

- 1: This number indicates how many holidays are in the system. Each line item has a number to signify its place in the list.
- Status: This dropdown box indicates the status of the holiday. There are two options:
 - Open: The holiday is active, and the DVR will stop recording for that holiday period.
 - Stop: The holiday is inactive, and the DVR will continue normal operation for that holiday period.
 - Name: This column is where the name of the holiday is displayed.
- Date: This column shows the date that the holiday occurs on.
- Period: This column shows the range in which the holiday occurs.
- Edit: This column has a button that allows for the editing of the holiday.
- Delete: This column has a button that allows for the deletion of the holiday.
- Add New Holidays: This button allows the user to add a holiday.

Note:

0

- Holidays take precedence over the scheduled setup.
- Holidays do not roll over based on their inherent date. Meaning, if a holiday is set for October 30th, then the system will treat every October 30th as a holiday.

To confirm settings, click the Save button. To refresh the page, click the Refresh button.

Display

This screen allows the user to adjust display settings, tour settings, and zero-channel encoding settings for the DVR.



	ST	PRE	VIEW PLAYBAC	K ALARM		\$ 0	[→ 12:39:14	
	Display	Tour	Zero-Channel					
	Resolution	1280*720	~					
	Transparency	-	+ 0%					
	Original Rate							
SYSTEM	Channel Display	⊻						
> GENERAL	Preview Enhancement							
DISPLAY PTZ VOICE ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE		Save	Refresh	Default				

Below is an explanation of the fields on the Display settings screen:

Parameter	Function
Resolution	This dropdown box allows the user to change the resolution of the DVR.
	There are 4 options:
	1920×1080
	1280×1024 (default)
	1280×720
	1024×768
Transparency	This slider allows the user to change the transparency of the menu screens
	on the DVR. The range goes from 0% to 100%.
Original Rate	This check box allows the user to set the original bit rate for their DVR to
	their output device.
Time Display/	These checkboxes allow the user to choose whether the time stamp and
Channel Display	channel number are shown in the playback video.
Preview	This checkbox allows the user to optimize the margin of the playback
Enhancement	video.

To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

Tour

This screen is used to activate tour functionality for the live preview. Below is a screenshot of the Tour Setup screen:



A M C R E S T	Live Playback Alarm	
CAMERA Display	Tour Zero-Ch Encode	
NETWORK EVENT Interval	r 5 Second (5-120)	
STORAGE Split	View 1 🔹	
GENERAL DISPLAY		
PAN/TILT/ZOOM TEXT OVERLAY	3 🗹 3 4 🗹 4	
AUTO MAINTAIN CONFIG BACKUP	5 🗹 5 6 🗹 6 🗸	
DEFAULT Motion Tou	r Type View 1 ▼ Save Refrest Default	

Below is an explanation of the fields on the Tour Setup settings screen:

Parameter	Function
Enable Tour	This checkbox allows the user to enable the tour functionality.
Interval	This field allows the user to set an interval in seconds for how quickly the tour cycles through channels. This value ranges from 5 to 120 seconds.
Split	This list allows the users to select channels add as a part of the tour. The number in the corner indicates how many channels are available. Add: This button allows the user to add a channel to the tour. Delete: This button allows the user to remove a channel from the tour. Move Up: This button allows the user to move a camera up in the tour queue. Move Down: This button allows the user to move a camera down in the tour queue.
Motion Tour	This dropdown box allows the user to select whether they want to see 1 or 4
туре	cameras at a time in the tour.

To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

Zero Channel

This screen is used to configure zero channel encoding functionality. This feature allows for the preview of several channels in one channel's window. Note: This feature only works on the Web Access view. Below is a screenshot of the Zero-Channel Encoding settings screen:


	EST		Live Playbac	k Alarm		¢	6 B	23:18:53
	Display	Tour	Zero-Ch Encode					
NETWORK	_							
	Enable							
	Compression	H.264	•					
SYSTEM	Resolution	CIF	· ·					
GENERAL	Frame Rate	30						
DISPLAY	Bit Rate	1024	▼ Kb/S	_				
PAN/TILT/ZOOM		Save	Refresh	Default				
TEXT OVERLAY								
ACCOUNT								
AUTO MAINTAIN								
CONFIG BACKUP								
DEFAULT								
UPGRADE								

Below is an explanation of the fields on the Zero-Channel Encoding settings screen:

Parameter	Function
Enable	This checkbox allows the user to enable the zero-channel encoding functionality.
Compression	This dropdown box allows the user to select the compression settings used by the system for zero-channel encoding. The default is H.264.
Resolution	This dropdown box allows the user to select the resolution used by the system for zero-channel encoding. There are 2 options for resolution (in pixels): CIF: 352 x 240 D1 720 x 480
Frame Rate	This dropdown box allows the user to select the frame rate used by the system for zero-channel encoding. The range is between 1 and 30 frames per second.
Bit Rate	This dropdown box allows the user to select the bit rate used by the system for zero-channel encoding. There are 7 options, and all are measures in kilobytes per second (Kb/S): 896, 1024, 1280, 1536, 1792, 2048, 4016

To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

PTZ

This screen is used to configure Pan/Tilt/Zoom (PTZ) functionality. Below is a screenshot of the PTZ settings screen:



	EST	PRE	VIEW PLAYBA	CK ALARM		
	PTZ					
THE NETWORK	Channel	1	٥			
EVENT	Control Mode	HDCVI	\sim			
	Protocol	HDCVI3.0	\sim			
	Address	1				
SYSTEM	Baud Rate	9600	~			
> GENERAL	Data Bit	8	~			
> DISPLAY	Stop Bit	1	~			
> PTZ	Parity	None	~			
> VOICE		Copy	Save	Refresh	Default	
> DEFAULT						
> UPGRADE						

Below is an explanation of the fields on the PTZ settings screen:

Parameter	Function
Channel	This dropdown box allows the user to pick which channel they would like to change PTZ settings for.
Control Mode	This dropdown box allows the user to pick which control move they would like to use for the specified channel. The two options are Serial and HDCVI.
Protocol	This dropdown box allows the user to pick a protocol for the specified channel. Default is HDCVI.
Address	This dropdown box allows the user to pick the corresponding PTZ address for the channel.
Baud Rate	This dropdown box allows the user to pick a baud rate for the PTZ channel. The options are 1200, 2400, 4800, 9600, 19200, 38400, 57600, or 115200.
Data Bit	This dropdown box allows the user to pick the amount of data bits for the PTZ transmission. The options are 5, 6, 7, or 8.
Stop bit	This dropdown box allows the user to pick the amount of stop bits for the PTZ transmission. The options are 1, 1.5, or 2.
Parity	This dropdown box allows the user to pick the parity for the PTZ transmission. The options are none, odd or even.

To copy settings to another channel, click the Copy button. To confirm settings, click the Save button. To refresh the page, click the Refresh button. To revert to default settings, click the Default button.

Voice

This screen is used to set and manage voice file settings for scheduled alerts. To use this function, you will need to use a USB device with preset voice files on them. The interface will import the files into the **File List** tab. Below is a screenshot of the file list tab:



	ST	PREVIEW	PLAYBACK	ALARM		
CAMERA	File List Schedu	le				
	File List					
	No.		File Name		Size	Delete
						^
SYSTEM						
> GENERAL						
> DISPLAY						
> PTZ						
> VOICE						<u> </u>
> ACCOUNT	File size: 2K-10MB. Max file No.: U					
> AUTO MAINTAIN			Select audio	OK Refresh		
> IMP/EXP						
> DEFAULT						
> UPGRADE						

Below is an explanation of the fields on the File List screen:

No.: The number, in sequential order, of the file in the file list.

File Name: Indicates the name of the file you will be importing into the system.

Size: Indicates the size of that file.

Delete: Allows the user to delete the file from the USB storage device.

Select Audio: Allows the user to add or import the voice file into the system.

Note: The voice menu may only be available on certain models, such as S5, and may not be applicable to all devices.

Schedule

This tab allows the user to schedule a voice file towards a specific period on the device. Below is a screenshot of the schedule tab:

	ST	PREVIEW	PLAYBACK ALARM			
CAMERA	File List	Schedule				
		Period	Schedule	interval	Repeat Playback	Output
	Enable	00 : 00 _ 24 : 00	None 🗸	60 min.	0 Mic	~
	Enable	00 : 00 _ 24 : 00	None 🗸	60 min.	0 Mic	\checkmark
SYSTEM	Enable	00 : 00 - 24 : 00	None 🗸	60 min.	0 Mic	~
> GENERAL	Enable	00 : 00 = 24 : 00	None V	60 min.	0 Mic	~
> DISPLAY	Enable	00 : 00 _ 24 : 00	None V	60 min.	0 Mic	~
> PTZ		Defeat				
	OK	Reliesh				
> AUTO MAINTAIN						
> IMP/EXP						
> DEFAULT						
> UPGRADE						

Below is an explanation of each field in this menu:



Period: Allows the user to set a time period for the schedule voice event. File Name: Allows the user to choose which voice file will be used during the event. Interval: Allows the user to determine a specific interval of time (in minutes) the event will occur. Repeat: Allows the user to set a specific number of repeats for the indicated voice alarm. Output: Allows the user to set the audio output of the voice event. This will be default to **Mic**.

To save settings, click the save button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Account

This menu is used to manage user accounts, user account passwords, and user groups. Below are a few considerations to keep in mind when editing this information:

- The DVR comes with 2 usernames by default:
- Username: admin Password: admin
- Username: default Password: default
- It is highly recommended to change the passwords for the admin and default accounts.
- Each user name and user group name can only contain letters, numbers, underline marks, dashes, or dots. No empty spaces are allowed.
- The maximum number of users is 64, and the maximum number of users that can be in one group is 20.
- There are two levels for user management: administrator and user. Administrator has more rights than a normal user and can modify key DVR settings.
- Each user can belong to only one group, and user rights cannot exceed group rights.

User

This screen is used to configure User Account settings. Below is a screenshot of the User Account settings screen:

	ST	PREVIEW	PLAYBACK ALARM		
CAMERA	ACCOUNT				
RETWORK	User	Group			
	SN	User	Group Name	User MAC	Мето
	1	admin	admin		admin 's account
	2	default	user		default account
SYSTEM					
> GENERAL					
> DISPLAY					
> PTZ					
> VOICE					
> ACCOUNT	Add Liser				
> AUTO MAINTAIN					
> IMP/EXP					
> DEFAULT					
> UPGRADE					

Below is an explanation of the fields on the User Account settings screen:

- Number: This number indicates how many users are in the system. Each line item has a number to signify its place in the list.
- User Name: This column indicates an account's username.



- Group Name: This column shows which group the username belongs to.
- Modify: This column has a button that allows for the account's properties to be edited.
- Delete: This column has a button that allows for the account's properties to be deleted.
- Status: This column shows what the status of a certain account is.
- MAC Address: This column shows the account's MAC address.
- Add User: This button allows the user to add another user account. Below is a screenshot of the Add User screen.

Add User	_			×
User				
Password				
	Low Middle	High		
Confirm Password				
Group	admin	\sim		
User MAC				
Memo				
Period	Set			
Authority				
System	Playback	Monitor		
✓AII				
ACCOUNT	✓SYSTEM	✓DISCONNECT USER	✓DEFAULT&UPGRADE	
✓PTZ	✓SYSTEM INFO	MANUAL CONTROL	✓BACKUP	
✓COLOR SETTING	✓STORAGE	✓EVENT	✓NETWORK	
CAMERA	✓CLAER LOG	✓SHUTDOWN		
	Sava	Cancel		
	Save	Cancer		

Note:

- It is recommended to give the general user fewer rights than an administrative one.
- When a new user is created, a MAC address can be entered for the user. This can limit the user's ability to logon from another device. If left blank, the user can logon from any MAC address.
- There is a total of 98 rights that can be assigned to a user.

Group

This screen is used to configure Group Account settings. Below is a screenshot of the Group Account settings screen:



	EST	PREVIEW	PLAYBACK ALARM				
CAMERA	ACCOUNT						
S NETWORK	User	Group					
	SN		Group Name	Мето	Modify	Delete	
	1					•	>
	2		user	user group	<u> </u>	e	
SYSTEM							
> GENERAL							
> DISPLAY							
> PTZ							
> VOICE							\sim
> ACCOUNT	Add Group						
> AUTO MAINTAIN	Add Group						
> IMP/EXP							
> DEFAULT							
> UPGRADE							

Below is an explanation of the fields on the User Group settings screen:

- Number: This number indicates how many groups are in the system. Each line item has a number to signify its place in the list.
- Group Name: This column indicates an account's username.
- Modify: This column has a button that allows for the account's properties to be edited.
- Delete: This column has a button that allows for the account's properties to be deleted.
- Memo: This column indicates any notes about the user group.
- Add Group: This button allows the user to add another user group. On the next page is a screenshot of the Add Group screen.

Add Group			×
Group Name Memo Authority			
System	Playback	Monitor	
AII ACCOUNT PTZ COLOR SETTING CAMERA	SYSTEM SYSTEM INFO STORAGE CLAER LOG	DISCONNECT USER MANUAL CONTROL EVENT SHUTDOWN	DEFAULT&UPGRADE BACKUP NETWORK
	Save	Cancel	



Note:

- It is recommended to give the general user fewer rights than an administrative one.
- There is a total of 98 rights that can be assigned to a user.

Auto Maintain

This screen is used to configure Auto Maintenance settings for the DVR. Below is a screenshot of the Auto Maintain settings screen:

	ST	PREVIE	EW PLAYB	ACK ALAR	M		\$ 0	[→ 12:48
CAMERA	Auto Maintain							
S NETWORK	Auto Reboot	Tuesday	✓ 02:00	~				
	Auto Delete Old Files	Never	~					
		Reboot						
SYSTEM	[Save	Refresh					
> GENERAL								
> DISPLAY								
> PTZ								
> VOICE								
> ACCOUNT								
> AUTO MAINTAIN								
> IMP/EXP								
> DEFAULT								
> UPGRADE								

Below is an explanation of the fields on the Auto Maintain settings screen:

- Auto Reboot: This dropdown field allows the user to set a day of the week and time to automatically reboot the system to keep the system healthy.
- Auto Delete Old Files: This dropdown field allows the user to delete old files. The two settings are Never and Customized. When customized is selected, several days can be specified. Any files that exist past that many days in the past are deleted to create space on the DVR's hard drive.

To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

IMP/EXP

This screen is used to manage importing and exporting of system configurations. This feature can be used to clone the settings from one DVR to another. Below is a screenshot of the IMP/EXP settings screen:



	ST	PREVIEW	PLAYBACK	ALARM			¢	0 G	12:48:43
	Import&Export								
	Import Config File				Browse	Config Import			
	Config Export								
SYSTEM									
> GENERAL									
> DISPLAY									
> PTZ									
> VOICE									
> ACCOUNT									
> AUTO MAINTAIN									
> IMP/EXP									
> DEFAULT									

Below is an explanation of the fields on the Config Backup settings screen:

- Config Export: This button allows the user to export config files from the DVR to the local storage device.
- Browse: Allows users to search for the exported config file.
- Config Import: Allows the user to import the exported file from the local storage device.

Default

This screen is used to revert the DVR back to its default settings. This feature can be used to restore the DVR to its factory setup conditions. Below is a screenshot of the Default settings screen:

	ST	PREVIEW	PLAYBACK	ALARM		۵	0 E	▶ 12:51:26
	Default							
RETWORK	Select All							
	CAMERA	✓ NETWORK	EVENT					
	STORAGE	SYSTEM						
SYSTEM	Default	Factory Default						
> GENERAL								
> DISPLAY								
> PTZ								
> VOICE								
> ACCOUNT								
> AUTO MAINTAIN								
> IMP/EXP								
> DEFAULT								
> UPGRADE								

There are 5 different settings areas that can be reset to default settings: Camera settings, Event settings, Network settings, System settings, and Storage settings. All these settings can be reset using the **All** checkbox.

The following settings are also reset with a factory reset:



- System Menu Color
- Language
- Time Display Mode
- Video Format
- IP Address
- User Accounts

To confirm settings, click the OK button near the bottom right hand corner. To cancel any modifications, click the Cancel button near the bottom right hand corner. To apply the settings, click the Apply button near the bottom right hand corner.

Upgrade

This screen is used to update the DVR's firmware to the latest version. To conduct a system update, it is required to put an update file onto a USB storage device and plug it into the DVR. Ensure the update file is named update.bin. To access the current firmware file for your DVR visit <u>https://amcrest.com/firmware-subscribe</u>

Below is a screenshot of the Update screen:

	ST	PREVIEW	PLAYBACK	ALARM			\$ 6	
CAMERA	System Upgrade							
	Select Firmware File				Browse	Upgrade		
EVENT								
	Download the latest Firmwar	e						
SYSTEM								
> GENERAL								
> DISPLAY								
> PTZ								
> VOICE								
> ACCOUNT								
> AUTO MAINTAIN								
> IMP/EXP								
> DEFAULT								
> UPGRADE								

Once the USB device with the firmware update is plugged in, navigate to this screen and click the Start button to begin the firmware update process.

Web Access Information Menu

This menu can be accessed by clicking the button near the top right corner of the web access interface.

Version

This screen is used to display record channel information, alarm input information, alarm output information, system serial number, and system version. Below is a screenshot of the version screen:



A M C R E S T ■	Live Playback Alarm	\$ i E→ 00:04:59
VERSION		
[≜] LOG Record Channel:		
Alarm In:		
Alarm Out:		
SN:	PA4AP138W01830	
System Version:	3.200.0024.0, Build Date: 2014-09-09	

Log

This screen is used to keep a log of all activity on the DVR. Below is a screenshot of the Log screen:

	Live	Playback Alarm	🌣 🚺 🕞 00:06:30
 version ≜ Log 	Start Time <mark>2014 - 09 - 11</mark> Types <mark>All •</mark>	00 : 00 : 00 End Time 2014 - 09 Search Matched 48 logs Log Time 2014-09-	9 - 12 00 : 00 : 00
	No.	Time	Event
	1	2014-09-11 07:29:31	User logged in 🔶
		2014-09-11 07:29:53	Save
	3	2014-09-11 07:30:39	Shut down
	4	2014-09-11 07:30:39	Boot up
	5	2014-09-11 07:30:39	Video Loss
	6	2014-09-11 07:30:39	Video Loss
	7	2014-09-11 07:30:39	Video Loss
		2014-09-11 07:30:39	Video Loss
	System Log Info Backup		I4 4 1 / 1 ▶ ♦I Go To <mark>1 Go</mark> Clear

The system lists the following information:

- System Operation
- Account Manager
- Configuration Operation
- Log Clear
- Data Management
- File Operation
- Alarm Events
- Reboot Type
- Record Operation

Below is an explanation of the fields on the log screen:



Parameter	Function
Туре	This dropdown box allows the user to select which type of log they want to view. Log types include system operation, configuration operation, data operation, event operation, record operation, user management, and log clear.
Start time	This field allows the user to set the start time of the requested log.
End time	This field allows the user to set the end time of the requested log.
Search	You can select the log type from the drop-down list and then click search button to view the list. You can click the stop button to terminate the current search operation.
Detailed Information	Double click a line item to open a more detailed view of that log item.
Clear	This button deletes all log files that are currently displayed.
Backup	Click this button to backup log files to the PC.

Online Users

This screen shows a list of all the users that are currently online and accessing the DVR, either through the DVR itself, through local access, or through remote access. Below is a screenshot of the Online Users screen:

	Т	Live	Playback Alarm		🔅 🚺 🕞 00:07:51
VERSION	Ne	Hearmonne	Crown Home	ID Addresse	Heard sain Time
[≜] LOG	No. 1	admin	admin	98.196.180.96	2014-09-11 11:23:16
A ONLINE USERS					*
	Refresh]			

Log Out

The logged in user can logout by using the button near the top right-hand corner of the screen. Once logged out, the DVR Web Access will return to the login screen, where another user may login. Below is a screenshot of the login screen:



	Contraction Contra
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Amcrest View App Setup

The Amcrest View app grants instant access to all live camera streams from any location. This is the primary application most users prefer when using Amcrest systems. The app supports a multitude of features and includes both a plug-and-play setup as well as a manual network setup. For purposes of this guide, we will use Amcrest View Pro, which is free on both the App Store and Play Store.

Before accessing the DVR through the app using the easy plug-and-play method (P2P Setup), confirm that P2P is enabled on the DVR. This feature should be enabled by default.

Enabling P2P on the DVR

- 1. Log into your DVR console's built-in interface using the DVR login credentials. Please refer to part 3 of this guide: Console Setup > Logging in.
- 2. Open the **MAIN MENU** by left-clicking the DVR's home preview screen. Then, click **NETWORK** in the bottom **SETTINGS** row:



- 3. Select **P2P** from the left navigation panel's list of options. Make sure the checkbox next to **Enable** is checked. If it is not, check it, then click **Apply** and **Save**.
- 4. Exit out of the main menu, then come back to the P2P page and confirm that the Status is 'Online'.





Amcrest View Pro Setup

The following steps will continue the app setup process for an Android phone and, though the iPhone version of the app has slightly different steps, most of this process is identical and easy.

1. Download and install the Amcrest View Pro app for the App Store or Google Play Store.









< Scan QR Code	< Camera Login
14 A	Give your device a name
	Garage
	Username: admin
	Password: admin
	Enter in your camera's username
(E + + + + + + + + + + + + + + + + + + +	and password. Default username is admin
S.N. AMITIZEDAUMEETIM	Default password is admin
	Maximum password length is 32 characters
Make sure camera's indicator light is solid green. Move camera back and forth slowly and	_
ensure entire QR code is in the frame.	
Enter S/N Manually	Start Live View
6. Scan the OR code	7. Give the device a name and provide the username
can be found on or near the device's serial number	and password. The default username and will be
tag. If the QR code does not scan or you are unable	admin. Tap start live view to continue.
to access it, the application provides you a means of	Note: You can tap on the 👁 icon to verify the
entering your serial number manually. Tap on "Enter	password.
Search ⊪II 🗢 12:28 PM - 4 ¥ 100% ■ Camera Login	📰 Live View 🖼
Give your device a name	
garage	KRITA-SZ-14 TIET-15R
Current password unsecured, please change password	The second second second
	A STATE OF A STATE OF A STATE
New Password:	
Confirm: ••••••	
	AMCREST-IPC Q 0
Cancel OK	
▲ · · · · ·	
•	
Start Live View	Q 4 () HD ()
8. The app will prompt you to change the password.	9. Your device is now set up and ready for use on the
Enter a password between 8 and 32 characters and	app.
confirm the password. Press OK to continue.	

For setup without establishing a P2P connection in the app you will need to use IP Doman/DDNS setup. For more details on this setup visit, <u>amcrest/com/support</u>



App setup not working? (troubleshooting steps)

- 1. **Re-enter login credentials**: Are you getting a (quote 'incorrect password' error) message? Try double checking your username and password. These will be the same credentials used to log into the DVR console's built-in interface.
- 2. **Confirm your phone is online**: Make sure that your phone is receiving a strong WiFi or cellular data signal. Confirm the Internet connection is working by loading a webpage or testing another internet enabled app.
- Confirm the DVR is online: Make sure an Ethernet cable is connected from your router to the Internet port on the back panel of your DVR console. (For help with this, refer to part 2 of this guide: Hardware Setup > Setting up the cable connectons.)
- 4. Confirm P2P is enabled: In order to use the P2P Setup to gain plug-and-play instant access, P2P needs to be enabled on the DVR. It will be enabled by default. To confirm P2P is enabled, log into the main console built-in interface for your DVR and select Network from the Main Menu (in the Settings row). Then, click P2P from the left navigation panel (on the bottom). Make sure the checkbox is checked next to "Enabled". If it is not, check it, click Apply down below, then attempt the P2P App Setup again (tap Start Live Preview).
- 5. **Confirm the serial number**: if you entered the serial number manually, double check that it is correct and re-enter it. This does not apply if you used the QR code scan.

6. Still not working?

If you have tried all the above troubleshooting steps, try rebooting your DVR. Then, restart your phone and try the P2P Setup on your app again. Contact support if you are still unable to gain access.

To view a video on how to setup the Amcrest DVR for remote access on a smartphone or tablet, go to http://amcrest.com/videos and view the video titled "How to Setup Amcrest HDCVI DVR for Remote Access on Smartphone/Tablet".



Amcrest View Pro Interface Overview

Once the app is setup to work with your DVR, it should look like the image below on the left. Here, you will be able to access all crucial functions like taking snapshots, manual recordings, etc.

Clicking the Menu Icon on the top left-hand corner will open the menu for this app, and it should look like the image below on the right.





Live Preview is the default screen that the app opens on, but from the menu, **Playback**, and **Device Manager** can be opened, as well as other menu items for other features.

Note: For help identifying and understanding app features, either tap the icon to see a tooltip description, or open the main menu, then tap **Help** to learn more.

Amcrest View Web Portal Setup

You can access your DVR through a computer using the P2P web portal **AmcrestView.com** for quick plug-and-play access. It uses the same technology as the Amcrest View mobile app and is an easy, non-technical setup method. There are 2 methods of accessing your DVR using AmcrestView.com: the **user method** (registering an account for login), and the **device method** (instant direct access using the serial number). Both methods require that the Amcrest **browser plugin** be installed for AmcrestView com

Both methods require that the Amcrest **browser plugin** be installed for AmcrestView.com.

Installing the AmcrestView.com browser plugin

1. Open Internet Explorer, type "<u>www.amcrestview.com</u>" into the search bar, and hit Enter. This will take you to the login screen:



ج الله الله://amcrestview.com/ ۲۰۰۵ الله amcr	restview.com ×	- 0 - × 0 分 ☆ 份
	Amcrest VIEW P2P WEB-GATEWAY User Device	
	Usernamie Password Stay signed in	
	Forgot Password? Register Now	
	When logging in for the first time, please install the browser plugin as prompted <u>Download Now</u>	

2. Once you're on the login page, you will see a message about installing the plugin below the login box. Click **Download Now**:



3. This will take you to another page where you will need to click the **Download Now** button:

Setup Web Client Plugin

In order to use AmcrestView.com, you must first install/update the ActiveX plugin.



Please restart the browser after upgrade.

4. You will be prompted by the browser to install the plugin. Click **Run**:



Do you want to run or save P2PSurveillance_3.01.001.0.exe (3.54 MB) from amcrestview.com?					×
🕐 This type of file could harm your computer.	\rightarrow	Run	Save	•	Cancel

5. You may be prompted to verify this download. This software is not harmful to your computer and will not make any unwanted changes. To verify, start by clicking **View Downloads**:

8	The signature of P2PSurveillance_3.01.001.0.exe is corrupt or invalid.	Learn more	View downloads	×
n the	View Downloads page, right click the plugin, the	n click Pun Anyway		

6. In the View Downloads page, right click the plugin, then click Run Anyway.

🗏 View Downloads - Internet Explore	er		
View and track your downlo	oads Right-click	erch downloads	Q
Name P2PSurveillancexe 3.3	54 MB	Actions	×
amcrestview.com	Run anyway	Del	ete
	Go to download webpage Rerun security checks on this pr	ogram	
G SmartScreen Filter is turned off.		Turn on	
Options		Clear list	Close

7. The plugin will close your browser sessions to install. Save any pages, then click **Yes**:



8. On the next prompt, it will say the install was successful and ask you to restart your browser. Click OK:





9. You will be taken back to the login page and see another notification from your browser asking you to allow this plugin on this web page. Click the small arrow next to **Allow**, then click **Allow for all websites**:



10. Another popup will appear asking you to allow this plugin. Mark the checkbox next to **Do not show me the warning** for this program again, then click Allow:

Internet E	xplorer Security
?	A website wants to open web content using this program on your computer
	This program does not have a valid digital signature that verifies its publisher. This program will open outside of <u>Protected mode</u> , putting your computer at risk. You should only run programs from publishers you trust. Name: 30\DVR32\33.2.0.4\WebActiveEXE.exe Publisher: Amcrest Technologies LLC Do not show me the warning for this program again
	Allow Don't allow

Now the plugin has been installed successfully and you can continue to register for an account for DVR access through AmcrestView.com

User Method

The **user method** requires that you first install the Amcrest browser plugin for AmcrestView.com. Then, you can register for an account to set up your DVR.

1. On the main login screen, <u>www.amcrestview.com</u>, click the **Register Now** button:



Amcrest VIEW P2P WEB-GATEWAY
User Device Userame Bassword Stay signed in Login Forgot Password?
Register Now Image: State Provided Complexity of the first time, please install the browser plugin as prompted Complexity of the first time, please install the complexity of the first time, please tintegral tintegral tintege time, please time, please time, please

 You will be taken to the registration form. Enter your Username, Password, then Confirm Password, type your Email, enter the Verification Code, make sure the box is checked confirming you've read the 'Amcrest Terms of Service', then click Create an Account:

	Ancrest View Tutorial AncrestView Tutorial An	
http://amcrestview.com/users/register_register.action		

3. You will see the **Registration Successful** message and a confirmation email will be sent to you:





Check your email, and click the confirmation email from AmcrestView.com:

Google			ب و		III O 📵
Gmail -	· · · · · · · · · · · · · · · · · · ·				1–1 of 1 < > 🌣 -
COMPOSE	Primary	Social	Promotions	+	
Inbox (1) Starred	□ ☆ p2p	AmcrestView.com - Activa	te Your Account - AmcrestViewTutorial: Thank	you for signing up for AmcrestView.cc	om! Click the following link to 1:29 pm
Sent Mail					
Drafts More +	T				

4. Once you've opened the email, click the confirmation link inside to complete your registration:

COMPOSE	A	mcrestView.com - Activate Your Account		÷ 2	p2p p2p@amcrest.com
rox arred		p2p@amcrest.com to me ●	1:22 PM (10 minutes ago) ☆	4. ·	🖬 🗹 🔹 Show details
nt Mail afts					
re +		Thank you for signing up for Amcrest/lew.com!			
John -	Q	Click the following link to activate your account: http://s4.175.56.2140.asers/register_active?code=62/V50YXX8.lang=en_US vote: in ea_vertaion link will entifie in a days. (if you are unable to click the link, please copy and paste it into your browsers URL bar) Please do not reply to this email.			
		If you have any questions, please email support@amcrest.com			

5. You will be taken back to AmcrestView.com and shown confirmation that your account has been activated. Click **Go to Login**:





6. You will be taken back to the login screen. Enter your new AmcrestView.com username and password, then click Login:

	User	Device
+	AmcrestViewTutorial	
+		•
3	Stay signed in	
	Logi	n
	>> Forgot Password?	
	Register	Now

7. A popup will appear from your Windows Firewall. Click Allow access:



Windows Secur	ity Alert		×
💮 Windo	ws Firewal	I has blocked some features of this program	
Windows Firewall h	as blocked som	e features of P2PServer on all public and private networks.	
	Name:	P2PServer	
	Publisher:	Unknown	
	Path:	C:\program files (x86)\webrec\p2pdient \3.01.001.0\p2pserver.exe	
Allow P2PServer to	communicate o	n these networks:	
Private netw	orks, such as n	ny home or work network	
Public netwo because the	rks, such as the se networks off	ose in airports and coffee shops (not recommended ten have little or no security)	
What are the risks	of allowing a pr	ogram through a firewall?	
		Cano	:el

8. You will be taken to the main screen of your account. From here, click the **Add Device** button:

DEVICE ACCOL		
Keywords	Q Search	ADD DEVICE
NO DEVICE NAME	S/N STATUS	MAC ID TYPE OPERATION
Total Devices: 0		K C page 1 of 1 > >

9. Now you can enter your DVR's information. Enter a Device Name (this can be anything). Then, fill in the S/N (serial number) this can be found on the sticker attached to the bottom of your DVR or through the web interface. Please refer to part 6 of this guide: Amcrest View App Setup > Entering serial number manually (technical method - harder).



Enter your username and password for the DVR, not the username and password you just created for AmcrestView.com. To find your DVR login credentials, please refer to part 4 of this guide: **Console Setup (Login & Startup Wizard)** > **Logging in**. Finally, click **OK**:

DEVICE ACCOL	Amcrest VIEW P2P WEB-GATEWAY Add a Device	×	
Total Devices: 0	Amerest DVR AMR D servane admin assessed CK Cancel	TYPE OPERATION	
	A M C R E S T		

10. You will then see your DVR added to the device list on the main screen. Click the 'eye' icon to view the live feed:

			SWORD	CHANGE PAS	ACCOUNT	DEVICE
	(n) === (c) ===_			Q Search		
OPERATION	TYPE	MAC ID	STATUS	S/N	DEVICE NAME	NO DE
/ ×	HCVR	4c-11-bf-36-aa-76	•	AMR10380DLP06L460D	Amcrest DVR	1 A
]	HCVR page 1	4c-11-bf-36-aa-76	•	AMR10380DLP06L460D	Amcrest DVR	1 A

11. Your browser will give you a notification asking you to allow popups from AmcrestView.com. Click **Options for this site**, then click **Always allow**:

		1	Ļ
		V	Always allow
Internet Explorer blocked a pop-up from *.amcrestview.com.	Allow once	Options for this site 🔻	More settings

12. You will be taken to the live view page and given a notification to allow the plugin to pull the video feed through here. Click the small arrow to the right of **Allow**, then click **Allow for all websites**:





13. A final popup will appear asking you to confirm that you allow this plugin on your browser. Mark the checkbox next to **Do not show me the warning for this program again**, then click **Allow**:

Internet E	xplorer Security
2	A website wants to open web content using this program on your computer
	This program does not have a valid digital signature that verifies its publisher. This program will open outside of <u>Protected mode</u> , putting your computer at risk. You should only run programs from publishers you trust. Image: Ima
	Do not show me the warning for this program again

14. Now you can enable any of your added cameras to see their live feeds. In the top-right panel, there is a channel list. Click the small square icon to enable your feed for an added camera to see the video feed:



CAM 1
Speed
Iris Zoom Focus
Preset \$ 1-80 Go to Add Delete

Click the "S" to change it to an "M" which stands for "Main Stream" and will give you a full HD quality video stream. To go back to "Sub Stream", for lower quality video (that works better on slower internet connections), click the "M" and change it to an "S" again.

Device method

To login to your DVR quickly, without having to register, you can use the **device method**. This method still requires that you install a plugin, which is covered above, but can be done with only the DVR's login credentials and the **serial number**.

1. On the main login screen for AmcrestView.com, click the **Device** tab:



Amcrest V EW P2P WEB-GATE AY User User Device Image: Device
When logging in for the first time, please install the browser plugin as prompted <u>Download Now</u>

2. Enter your DVR's **S/N** (serial number) into the top field, enter your DVR's username and password, then click **Login**.

	Amcrest VIEW P2P WEB-GATEWAY
	Usor Device
	AMR10980DLP06L460D
	admin
	Login
(U) When	rhen kogging in for her first time, please install the overler plugin as promptios <u>Exemblant Nov</u>
	O AMCREST

To find your DVR's login credentials, please refer to part 4 of this guide: **Console Setup (Login & Startup Wizard)** > **Logging in**.

3. This will take you straight to the live view screen. You will see a notification from your browser asking you to allow the plugin. Click the small arrow to the right of **Allow**, then click **Allow for all websites**:



A M C R E S T	Live Playback Change Password	^^
		IPC
		CAM 2
		CAM 3
		CAM 4
		Bpeed Image: Constraint of the second se
		Preset 1-80
		Go to Ac Delete
This webpage wa	nts to run the following add-on: 'TimeGridEXE Module' from 'Amcrest Technologies LLC (unverified publisher)', What's t	Allow Allow Allow Allow for all websites

4. You will see a popup asking you to confirm that you allow this plugin. Check the box next to **Do not show me the** warning for the program again, then click **Allow**:

Internet E	xplorer Security
3	A website wants to open web content using this program on your computer
	This program does not have a valid digital signature that verifies its publisher. This program will open outside of <u>Protected mode</u> , putting your computer at risk. You should only run programs from publishers you trust. Name: EB30\DVR32\33.2.0.4\TimeGridEXE.exe Publisher: Amcrest Technologies LLC Do not show me the warning for this program again
	Allow Don't allow

5. Now you can enable any of your added cameras to see their live feeds. In the top-right panel, there is a channel list. Click the small square icon to enable your feed for an added camera to see the video feed:





Click the "S" to change it to an "M" which stands for "Main Stream" and will give you a full HD quality video stream. To go back to "Sub Stream", for lower quality video (that works better on slower internet connections), click the "M" and change it to an "S" again.

Amcrest View Web Interface Overview

There are two main sections inside of the Amcrest View web interface: the main **device list section** (for anyone logged in with a registered account) and the **live view section** (can be accessed by both registered users and those accessing their DVRs using the **device method** covered above. **Device list section**

			Q Search				ADD DEVICE
] <u>NO</u>	DEVICE NAME		S/N	STATUS	MAC ID	TYPE	OPERATION
] 1	Amcrest DVR	\bigcirc	AMR10380DLP06L460D	•	4c-11-bf-36-aa-76	HCVR	/ ×

The device list section has 3 main tabs. The first is the **DEVICE** tab:



This page shows you a list of any added devices and is where you can click the 'eye' icon to view your DVR's live camera feeds. This is where you can **ADD DEVICE**, **Search**, edit, or delete your added devices.

The next tab is the **ACCOUNT** tab:

Username:	AmcrestViewTutorial	
country:	United States	
Email:	amcrestviewtutorial@gmail.com	
	Receive email from AmcrestView.c	om

This is where you can see your **Username**, change your **Country**, see your **Email**, and enable email notifications from AmcrestView.com.

The last tab for the device list section is the CHANGE PASSWORD tab:

Old Password:			
New Password:	\$		
onfirm Password:	\$		
ОК	Cancel		

Here, you can change your password.

Live view section

The live view section is where you can see the live camera feeds and playback footage for any cameras added to your DVR. The first tab is the **Live**.

Here, you can enable the live feeds for any connected cameras, control PTZ, take snapshots, use 2-way audio, view them in full screen, and more. The next tab is the **Playback** tab:



O AMCREST	Live Playback	Change Password		^
	Live Playback 8 10 11 12 13 14	Change Password	↓ 2016 ↓ Sun Mon Tue Wed Thu Fri Sat 1 2 4 5 6 7 1 2 3 4 5 6 7 8 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 10 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 10 15 16 17 16 17 16 17 10 10 11 <th></th>	
Stop 🖾 All 🖾 General 📕 🖾 Motion 📕	🗹 Alarm 📕	Q 0 Q		

Here, on the right panel, there is a calendar for you to choose which day you'd like to see footage from, and you can choose a channel to select which camera you want to see footage from. The timeline on the bottom allows you to play, stop, forward, etc.

Note: Keep in mind that you can see the live feeds from your cameras whether a hard drive is installed in your DVR. However, you will need to have a hard drive installed and recordings properly configured to view the playback.

FAQs/Troubleshooting

1. The DVR does not boot up properly.

Below are a few possible reasons why this may be occurring:

- The power input is not correct voltage.
- The power cable connection is not secured correctly.
- The power button is damaged or malfunctioning.
- The firmware was upgraded incorrectly.
- There is an HDD malfunction, or something is wrong with the HDD cable.
- There is damage to the DVR's main motherboard.

2. DVR often automatically shuts down or stops running. Below are a few possible reasons why this may be occurring:

- The input voltage is too low or is not stable.
- There is an HDD malfunction, or something is wrong with the HDD cable.
- The power button is damaged or malfunctioning.
- Video output signal is not stable.
- The insides of the DVR have accumulated too much dust.
- The temperature is either too hot or too cold.
- The hardware is malfunctioning.

3. The system does not detect a hard drive.



Below are a few possible reasons why this may be occurring:

- The hard drive is broken.
- The hard drive cable is damaged.
- The hard drive cable connection is loose.
- The DVR's main motherboard SATA port is broken.

4. There is no video output on any of the channels.

Below are a few possible reasons why this may be occurring:

- The DVR firmware is incompatible with the attached cameras. Upgrade to the latest firmware.
- The image brightness is set to 0. Change the brightness using the image settings or restore the DVR to factory default settings.
- There is no video input signal, or the signal is too weak.
- A privacy mask or screensaver may be enabled.
- There might be a malfunction with the DVR hardware.

5. Real-time video color is distorted.

Below are a few possible reasons why this may be occurring:

- When using a BNC output, NTSC and PAL may be setup incorrectly. The real-time video may become black and white.
- The DVR is not compatible with the monitor.
- The video transmission cable is too long, or signal degradation is too great.
- The DVR's color or brightness settings are not correctly configured.

6. Local Recordings are not searchable.

Below are a few possible reasons why this may be occurring:

- The hard drive cable is damaged.
- The hard drive is broken.
- The DVR's firmware is incompatible with the recorded video.
- The recorded files have been overwritten.
- The recording function has been disabled.

7. Local playback video is distorted.

Below are a few possible reasons why this may be occurring:

- The video quality setting is too low.
- The DVR software has a read error. Restart the DVR to solve this problem.
- The hard drive cable is damaged.
- The hard drive is malfunctioning.
- The DVR's hardware is malfunctioning.

8. There is no audio during real-time monitoring.

- Below are a few possible reasons why this may be occurring:
- The microphone being used is not sufficiently powered.
- The speakers being used are not sufficiently powered.
- The audio cable is damaged.
- The DVR hardware is malfunctioning.

9. There is no audio during recorded video playback.

Below are a few possible reasons why this may be occurring:

- Audio may not be enabled for that channel.
- The corresponding channel may not have any audio input.



10. The timestamp is not displaying the correct time.

Below are a few possible reasons why this may be occurring:

- The time and date settings may not be configured correctly.
- The battery inside the DVR may be loose, or the battery is running low.

11. PTZ control is not working.

Below are a few possible reasons why this may be occurring:

- There may be an error with the PTZ front panel buttons.
- The PTZ decoding settings aren't configured correctly.
- The PTZ connection may be loose or may not be installed correctly.
- An incorrect cable may be used to connect the PTZ enabled device to the DVR.
- The PTZ decoder and the DVR protocol are not compatible.
- The PTZ decoder and DVR address are not compatible.
- Multiple PTZ decoders are causing reverberation or impedance matching, causing PTZ signal interference. Use a 120 Ohm resister between the PTZ cables to reduce interference.
- The PTZ cable is too long or signal degradation is too great.

12. Motion detection does not work.

Below are a few possible reasons why this may be occurring:

- The motion detection time period may be incorrectly configured.
- Motion detection zone setup is not correctly configured.
- Motion detection sensitivity is too low.

13. Web Access isn't working.

Below are a few possible reasons why this may be occurring:

- Windows version is pre -Windows 2000 service pack 4. Use a more recent version of Windows.
- ActiveX controls have been disabled.
- The PC is not using DirectX 8.1 or higher. Upgrade to a more recent version of DirectX.
- The DVR is having network connection errors.
- Web access may be setup incorrectly.
- The username or password may be incorrect.
- The client end computer is not compatible with the DVR's firmware.

14. Web Access live view is only displaying a static picture. Both live playback and recorded playback aren't working.

Below are a few possible reasons why this may be occurring:

- The network speed is not enough to transfer video data via web access.
- The client PC may have limited resources.
- Multicast mode may be causing this issue.
- A privacy mask or screensaver may be enabled.
- The logged in user may not have enough rights to monitor real-time playback.
- The DVR's local video output quality is not enough.

15. Network connection is not stable.

Below are a few possible reasons why this may be occurring:

- The network is not stable.
- There may be an IP address conflict.
- There may be a MAC address conflict.
- The PC or DVR network card may be defective.



16. Keyboard is not working with the DVR.

Below are a few possible reasons why this may be occurring:

- The DVR serial port is not setup correctly.
- The keyboard may be drawing too much power.
- The keyboard cable too long.
- The keyboard is not compatible with the DVR's firmware.

17. The alarm signal cannot be disarmed.

- Below are a few possible reasons why this may be occurring:
- An alarm may be setup incorrectly.
- An alarm output may have been manually opened.
- The DVR may have an input device error, or the connection is not correctly configured.
- There may be an error in the DVR's firmware.

18. Alarms are not working.

Below are a few possible reasons why this may be occurring:

- The alarm is not setup correctly.
- The alarm cable is not connected correctly.
- The alarm input signal is not correctly configured.
- There are two loops connected to one alarm device.

19. The camera is not recording enough video.

Below are a few possible reasons why this may be occurring:

- The hard drive's capacity is not enough.
- The hard drive is damaged.

20. Downloaded files cannot be played back.

Below are a few possible reasons why this may be occurring:

- The media player software on the PC may not be able to read the file format.
- The PC may not have DirectX 8.1 or higher.
- The PC may not have Windows XP or higher.

21. Forgot local menu operation password or network password

As a security measure, your device will lock your account after so many failed attempts. This is implemented to prevent unauthorized users from continually attempting to gain access to your system without consent.

If you experience a locked account issue, there are a few troubleshooting steps you can take to help resolve the problem.

1. **Power Cycle** - To power cycle the device, please remove the device from its power source and allow the device to shut down. This should take approximately **45 seconds** to complete. Once complete, plug the camera back in with its power supply and allow the device to boot back up. When the device is ready, try to connect to the device again.

2. Wait to Unlock - Initially, the device will be locked for a duration of 60 minutes. After the 60 minutes have passed, you will be given another round of password attempts to enter in the password correctly.

3. **Password Reset** - If the problem persists, it is highly advisable to fill out a password request form. This form can be found at <u>https://amcrest.com/password</u>. For more information on this issue. When completing the form, for security purposes, it will be required to provide a **proof of ownership** to help prevent unauthorized access to your device. A proof of ownership includes:

- A screenshot of the order history showing the purchase of the device.

- An image of the receipt or invoice for your purchase.



- A screenshot of the email confirmation with purchase information included.

Note: This information must be provided in common formats such as; PDF, JPG, or PNG format. Please make sure the file does not exceed **900KB**.

If the file is too large, it is advisable to either take a snip of the image, crop it, or resize it to fit these criteria. To expedite your request, please make sure the image is legible and visible enough for verification purposes. If you have any questions or are having continued issues filling out the password reset form, please view the following instructional video at https://www.youtube.com/watch?v=20XKCXwwSlk Maintenance Tips:

• Please use a brush to clean the motherboard, socket connectors, and the DVR chassis and keep it free of dust.

- The device should be soundly grounded in case there is an audio/video disturbance. Keep the device away from static electricity or induced electricity.
- Please unplug the power cable before you remove audio/video signal cables, RS232 cables, or RS485 cables.
- Always shut down the device properly. Please use the shutdown function in the menu or can press the power button on the front panel for at least three seconds to shut down the DVR. Incorrect shutdown may result in a hard drive malfunction.
- Keep the device is away from direct sunlight or other heat sources and keep the DVR well ventilated.

Appendix A: Toxic or Hazardous Materials or Elements

	Toxic or Hazardous Materials or Elements					
Component Name	Pb	Hg	Cd	Cr VI	PBB	PBDE
Sheet Metal(Case)	0	0	0	0	0	0
Plastic Parts (Panel)	0	0	0	0	0	0
Circuit Board	0	0	0	0	0	0
Fastener	0	0	0	0	0	0
Wire and Cable/Ac Adapter	0	0	0	0	0	0
Packing Material	0	0	0	0	0	0
Accessories	0	0	0	0	0	0

Note

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

X: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard. During the environmental-friendly use period (EFUP) period, the toxic or hazardous substance or elements contained in products will not leak or mutate so that the use of these (substances or elements) will not result in any severe environmental pollution, any bodily injury or


damage to any assets. The consumer is not authorized to process such kind of substances or elements, please return to the corresponding local authorities to process according to your local government statutes.

FCC Statement

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2. The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes, or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

3. (b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: 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 receiving antenna.

-- 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.

4. RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.



IC Warning Statement

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

Pour se conformer aux exigences de conformité CNR 102 RF exposition, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil ettoutes les personnes.

Note:

- To view setup videos for many of the steps outlined in this guide, go to http://amcrest.com/videos
- For more supplemental information or to view support articles on your product, go to http://amcrest.com/support
- This quick start guide is for reference only. Slight differences may be found in the user interface.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks mentioned are the properties of their respective owners.
- If you have any questions or concerns, please contact us at support@amcrest.com, or call us at 888-212-7538.

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