HDCVI Mobile Digital Video Recorder User's Manual

V 1.0.0

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Welcome

Thank you for purchasing our mobile digital video recorder!

This user's manual is designed to be a reference tool for your system.

Please open the accessory bag to check the items one by one in accordance with the list below.

Contact your local retailer ASAP if something is missing or damaged in the bag.

Important Safeguards and Warnings

1. Electrical safety

All installation and operation here 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 all the fires or electrical shock caused by improper handling or installation.

2. Transportation security

Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

3. Installation

Keep upwards. Handle with care. Do not apply power to the DVR before completing installation. Do not place objects on the DVR

4 . Qualified engineers needed

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

5. Environment

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

This series product shall be transported, storage and used in the specified environments.

6. Accessories

Be sure to use all the accessories recommended by manufacturer.

Before installation, please open the package and check all the components are included. Contact your local retailer ASAP if something is broken in your package.

Before your operation please read the following instructions carefully.

• Installation environment

- Keep away from extreme hot places and sources;
- ♦ Avoid direct sunlight;
- ♦ Keep away from extreme humid places;
- ♦ Avoid violent vibration;
- Do not put other devices on the top of the DVR;
- ♦ Be installed in well ventilated place; do not block the vent.

• Accessories

Always use accessories recommend by the manufacturer.

1 Features and Specifications

1.1 Overview

This series HDCVI mobile DVR is a series mobile DVR based on our latest platform.

- It integrates video process, wireless network technology, GPS technology, structure technology, and vehicle information sampling and process technology together.
- It adopts solid aluminum alloy case and has one built-in 2.5-inch HDD or SD card as the storage media. Support built-in 3G/WIFI wireless transmission module and GPS module.
- It can be used on the vehicle to realize local audio/video storage and vehicle information sampling. It can send out real-time video and vehicle information to the remote management centre via the WAN to build up a wireless surveillance management system.

This series product can be widely used in various areas such as public transportation, long-distance bus, public security patrol, public security, logistics transportation and etc. It can also be sued in many environments which has high requirement for the video monitor.

Important

Please note, GPS, WIFI, 3G function are optional. Please make sure you purchased product support these functions.

1.2 Function

Slight difference may be found due to different series products.

• Storage function

Special data format to guarantee data security and can avoid vicious data modification.

• Compression format

Support multiple-channel audio and video signal. An independent hardware decodes the audio and video signal from each channel to maintain video and audio synchronization.

Backup function

Support backup operation via USB port (such as flash disk, portable HDD) Client-end user can download the DVR file to local HDD to backup via network.

• Record playback function

Support each channel real-time record independently, and at the same time it can support forward play, network monitor, record search, download and etc.

Support various playback modes: slow play, fast play, backward play and frame by frame play. Support time title overlay so that you can view event accurate occurred time Support specified zone enlargement.

• Network operation

Support network remote real-time monitor, remote record search and remote PTZ control.

• Alarm activation function

Several-channel relay on-off signal alarm output, easily to realize alarm trigger action and on-site light control.

The alarm input port and output port has the protection circuit to guarantee device safety.

• Communication port

RS485 port to realize alarm input and PTZ control.

RS232 port to connect to peripheral devices such as keyboard, COM port, matrix control and etc. Standard 100Mbps Ethernet port can realize network access function.

• PTZ control

Support PTZ decoder via the RS485 communication. Support various decode protocols to realize PTZ and PTZ dome camera control function.

Intelligent operation

Mouse operation function In the menu, support copy and paste setup function

GPS positioning

The GSP information can activate the record function while the search function can activate the vehicle movement track.

Please note only the unit of GPS module supports this function.

• 3G network

Latest wireless network communication technology allows you to easily control the device. **Please note only the unit of 3G module supports this function.**

• Removable HDD design

The professional removable anti-vibration design supports fix and removable operation and can connect to PC USB port to realize fast and convenience data backup.

Dual-stream

Considering the wireless network band is small and the network is not stable, system adopts the dual stream to implement real-time record and network transmission independently, which greatly optimizes the network transmission encode code and enhance the wireless network control compatibility.

• Vehicle status record

There are six external alarm output ports. You can connect to the door signal, direction indicator lamp signal, reversing light signal, stop lamp signal and etc to prompt the driver and record vehicle status.

1.3 Features

• Mobile vehicle power

Professional wide power supplying design (6-36V) for vehicle use. It is suitable for various voltages. It has overload protection, under voltage protection, short circuit protection and overflow

protection.

• High anti-vibration design

The unique HDD box adopts built-in anti-vibration design. It adopts the mechanical anti-vibration, electronic anti-vibration and patent software anti-vibration together to realize the multiple-level anti-vibration mechanism.

• Non-fan design

The non-fan design realizes quiet environment, free from dust and water and at the same time, it achieves the low power consumption and sound ventilation. This design meets the contemporary high-end electronic device development tendency.

Slight function differences may be found due to different series.

1.4 Specifications

	Parameter	4-ch Series
	Main	High-performance industrial embedded micro controller
System	Processor	
	OS	Embedded LINUX
	System	Multiplex operations: Multiple-channel record, multiple-channel playback
	Resources	and network operation simultaneously
	Interface	User-friendly graphical user interface
	Input Devices	Mouse, remote control
	Input Method	Arabic number, English character, donation and extension Chinese (optional)
	Shortcut	Copy/paste operation, USB mouse right-key shortcut menu, double click
	Function	USB mouse to switch screen.
Compression	Video	
Standard	Compressio	H.264
	n	
	Audio	
	Compressio	G711A,G711U,PCM
	N Video Input	4-CH composite video input: (NTSC/PAL) aviation port (1.0V _{P-P.} 75Ω)
	Video Input	1-ch PAL/NTSC, aviation port (1.0VP- P, 75 Ω) composite video signal
	Video	output.
	Output	1-ch VGA output.
		Support TV/VGA video output at the same time.
Video monitor	Video Standard	Support PAL/NTSC.
	Record	Real-time Mode: PAL 1f/s to 25f/s per channel and NTSC 1f/s to 30f/s per
	Speed	channel
	Video Partition	1/4 windows

	Monitor	Support monitor tour functions such as alarm, motion detection, and
Touring		schedule auto control.
	Resolution (PAL/NTSC)	 System supports various resolutions, you can select from the dropdown list. The first two channels support HDCVI 1080P resolution. The last two channels support HDCVI 720P resolution. System default setup is HDCVI 720P. Please make sure you are connecting to the HDCVI 1080P camera if you want to realize 720P/1080P resolution. For 4-channel analog channel, system supports 4-channel 960H resolution. System does not support audio function. Support dual-stream function. The sub-stream max supports D1.
	Image Quality	6-level image quality (Adjustable)
	Privacy mask	Support one privacy mask of user-defined size in full screen. Support max 4 zones.
	Image Information	Channel information, time information and privacy mask zone.
	TV Adjust	Adjust TV output zone suitable to anamorphic video.
	Channel Lock	Cover secret channel with black screen though system is encoding normally. Screen-lock function to prevent unauthorized user seeing secret video.
	Channel Information	Channel name, recording status, screen lock status, video loss status and motion detection status are shown on the bottom left of display screen.
	Color Configuratio n	Hue, brightness, contrast, saturation and gain setup for each channel.
Audio	Audio Input	4-ch aviation port audio input. 200-2000mv 10KΩ.
	Audio Output	1-ch aviation port audio output. 200-3000mv 5K Ω .
	Bidirectional Audio	Support bidirectional talk function. Support special mobile microphone input.
	Hard Disk	1 built-in SATA port. Support one 2.5-inch HDD (max 2TB). One SD card (Max 128GB).
Hard disk	Hard Disk Occupation	Audio: PCM 28.8MByte/h Video: 56-5662MByte/h
Record and	Recording Mode	Manual recording, motion detection recording, schedule recording and alarm recording Priority: Manual recording> alarm recording>motion detection recording>schedule recording.
playback	Recording Length	1 to 120 minutes single record duration (Default setup is 60 minutes)
	Playback Repeat Way	When hard disk is full, system can overwrite previous video file.

	Record	Various search engines such as time, type and channel.
	Search	
	Playback Mode	Various fast play, slow play speeds, manual frame by frame playback and reverse play mode.
	Various File Switch Ways	Can switch to previous or next file or any file in current play list. Can switch to file on other channel of the same time. (If there is a file) Support file continuous play, when a file is end system auto plays the next file in the current channel
	Multi-chann el Playback	There is 1-channel playback
	Window Zoom	Switch between self-adaptive screen/full screen when playback
	Partial Enlargemen t	When in one-window full-screen playback mode, you can select any zone to activate partial enlargement function.
GPS		Support built-in GPS module. Support customized setup such as GPS. Beidou, glonass.
.	Backup	HDD backup
Backup function	Mode	Support peripheral USB backup device. (Flash drive)
TUTICUOT		Support network download and save View monitor channel remotely.
		DVR configuration through client-end and web browser
Network		Upgrade via client or browser to realize remote maintenance.
Function		View alarm information such as external alarm, motion detection and video loss via client.
1 dilotion		File download backup and playback
	Network	Multiple devices share information via corresponding software such as
	control	professional surveillance software (PSS)
		Duplex transparent COM
		Network alarm input and output
		Bidirectional audio.
		Support built-in 3G/4G module. No built-in WIFI.
Motion Detection and	Motion Detection	Zone setup: support 396((PAL 22×18, NTSC 22×15)) detection zones. Various sensitivity levels.
Alarm	Video Loss	Alarm can activate record or external alarm or screen message prompt.
Alaini	External	Alarm can activate external alarm or screen message prompt. Support record activation function or activate external alarm or screen
	Alarm	message in specified period.
	Manual	
	Alarm	Enable or disable alarm input channel Support analog alarm signal to specific alarm output channel.
	Control	
	Alarm Input	6-ch alarm input (You can set normal open or normal close type to select
	, iain input	the alarm type.),1-channel pulse input.

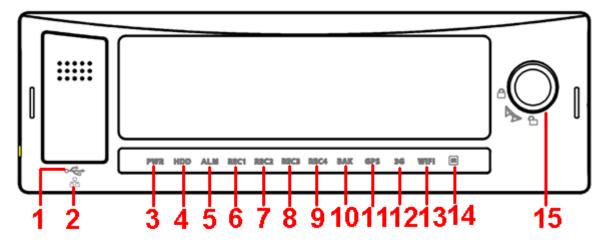
Alarm 2-channel relay output. Output 2 USB 2.0 ports. Interface One is at the front panel and the other is at the extension cable of the panel. Network RJ45 10M/100M self-adaptable Ethernet port Connection One RS485 port. It is the PTZ control port Support various PTZ control protocols. CAN One. Optional.	
Interface 2 USB 2.0 ports. One is at the front panel and the other is at the extension cable of the panel. Network Network RJ45 10M/100M self-adaptable Ethernet port One RS485 port. It is the PTZ control port Support various PTZ control protocols.	
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RS485 One RS485 port. It is the PTZ control port Support various PTZ control protocols.	
RS485 It is the PTZ control port Support various PTZ control protocols.	
Support various PTZ control protocols.	
CAN One Ontional	
CAN Only Optional.	
RS232 One port. Ordinary COM (Debug),keyboard connection and transpa serial port(COM input and output via network)	sparent
VGA Support (Customized cable. optional)	
System Hard Disk Display HDD current status	
Information Information	
Data Data stream statistics for each channel (in wave mode)	
Stream	
Statistics	
Log Backup to 1024 log files.	
statistics Support various search engines such as time and type.	
Version Display version information: channel amount, alarm input and or	output
amount, system version and release date.	
On-line user Display current on-line user	
User Multi-lever user management; various management modes	
Management User Integrated management for local user, serial port user and network us	user.
Manageme Configurable user power.	
nt Support user /group and its corresponding rights modification.	
No limit to the user or group amount.	
Password modification	
Password Administrator can modify other user's password.	
Authenticati Account lock strategy	
Five times login failure in thirty minutes may result in account lock.	
Upgrade Web browser, client-end and update tool.	
Password login protection to guarantee safety	
User-friendly interface when login. Provide the following options: Lo	Logout
Login, Logout and Shutdown /shutdown/ restart.	
Right authentication when shut down to make sure only those pr	proper
people can turn off DVR	
Power DC 6-36V. Built-in power supplying module (60W). Built-in UPS.	
Power	
General Consumptio <10W (Base version.)	
Parameter n	

Working	-20℃-65℃
Temperatur	
е	
Working	10%-90%
Humidity	
Air Pressure	86kpa-106kpa
	1DIN standard industrial case.
Dimension	Front panel: 190*60mm (W*H).
	Rear panel: 180*210*50mm (W*D*H)
Weight	3.0Kg(Include all packaging materials)
Installation	Desktop installation
Mode	

2 Front Panel and Rear Panel

2.1 Front Panel

The front panel is shown as in Figure 2-1 when the front door is close.



— :		04
FIG	ure	Z-1

Please refer to the following sheet for detailed information.

SN	Name	Port name and indicator light
1	USB port	USB port. To connect to mouse, or flash disk to backup data.
2	RJ45 network port	Network port.1
3	Power indicator light	The red light is on when the device is running.
4	HDD indicator light	The blue light is on when there is HDD. The light is off when there is no HDD.
5	Alarm indicator light	There is an alarm when the blue light is on.
6~9	Record indicator light 1~4	The blue light is on when system is recording.
	Backup indicator light	• The blue light is flashing when system is backup.
10		• The blue light is on when the backup is finish.
10		• The light is off when the backup error occurs or the flash
		disk is removed.
	GPS indicator light	The blue light is on when GPS function is normal.
11	Please note only the unit	
	of GPS module supports	
	this function.	
	3G indicator light	The blue light is on when 3G function is normal.
12	Please note only the unit	
12	of 3G module supports	
	this function.	
10	WIFI indicator light	The blue light is on when WIFI function is normal.
13	Please note only the unit	

SN	Name	Port name and indicator light	
	of WIFI function supports this function.		
14	Remote control receiver	It is to receive the signal from the remote control.	
15	Device lock/unlock (on/off button)	 Please unlock the device before you remove the HDD box. Otherwise system is going to shut down automatically. System can not boot up once the button is unlock. Please lock the device first and the boot up the device. It is to save the HDD. 	

2.2 Rear Panel

2.2.1 Rear Panel

The rear panel is shown as in Figure 2-2.

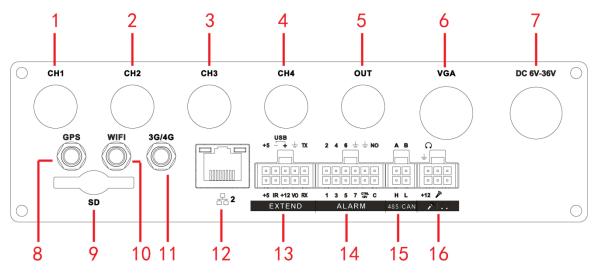


Figure 2-2

Please refer to the following sheet for front panel button information.

SN	Name	Function	
1~4	CH1~CH4	Signal input port	
5	OUT	Audio/video output port	
6	VGA	VGA port. Including VGA and various signals port.	
7	Power device input	Device power input port. It is to provide power	
'		supplying.	
	GPS port	GPS port	
8		Please note only the unit of GPS module supports	
		this function.	
9	SD card port	SD card port	
	WIFI antenna port	WIFI antenna port	
10		Please note only the unit of WIFI module supports	
		this function.	
11	3G antenna port	3G antenna port	

SN	Name	Function
		Please note only the unit of 3G module supports
		this function.
12	RJ45 network port	Network port 2
13	Extension port	Extension port. Please refer to Figure 2-3 for detailed
13		information.
14	Alarm input/output port	Alarm input/output port, GND port, and 12V output.
14		Please refer to chapter 3.6 for detailed information.
	RS485 and CAN BUS port.	RS485 communication port. It can control PTZ.
15		Reserved port. For data exchange between vehicles
		CAN network and other devices of CAN port.
16	Audio input and output	Bidirectional input and output port. Please refer to
10	port.	Figure 2-4 for detailed information.

2.2.2 Extension Port

This series has the built-in power; you do not need the mobile power supply sourcing.

The following contents are to introduce function of each port. You can make connection cable by yourself or you can contact your local retailer to purchase.

The extension port1 is shown as in Figure 2-3.

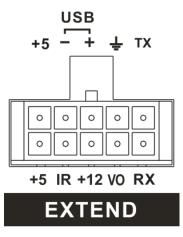


Figure 2-3

Please refer to the following sheet for detailed information.

SN	Function	
+5	+5V Output (The bottom line)	
+5	USB 5V (The top line)	
IR	IR receiver port	
-	USB data	
+12	+12V output	
+	USB data+	
VO	AV video output	
÷	GND	
RX	RS232 RX	
ТΧ	RS232 TX	

2.2.3 Bidirectional talk port

The following contents are to introduce function of each port. You can make connection cable by yourself or you can contact your local retailer to purchase.

The bidirectional talk port is shown as in Figure 2-4.

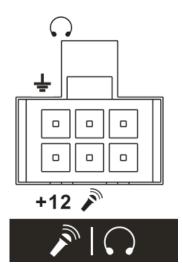


Figure 2-4

Please refer to the following sheet for detailed information.

SN	Function	
+12	+12V output	
÷	GND	
	Mic In	
\bigcirc	Mic Out	

2.3 Remote Control

The remote control interface is shown as in Figure 2-1.

Please note remote control is not our standard accessory and it is not included in the accessory bag.

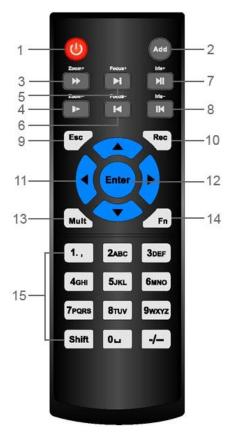


Figure 2-1

Please refer to the following sheet for detailed information.

Serial Number	Name	Function
1	Power button	Click it to boot up or shut down
		the device.
2	Address	Click it to input device number, so
		that you can control it.
3	Forward	Various forward speeds and
		normal speed playback.
4	Slow play	Multiple slow play speeds or
		normal playback.
	Next record	In playback mode, playback the
5		next video.
	Previous record	In playback mode, playback the
6		previous video.
7	Play/Pause	In pause mode, click this button
		to realize normal playback.
		In normal playback click this
		button to pause playback.
		In real-time monitor mode, click
		this button to enter video search
		menu.
	Reverse/pause	Reverse playback pause mode,
8		click this button to realize normal

		playback.
		In reverse playback click this
		button to pause playback.
	Cancel	Go back to previous menu or
9	Cancer	cancel current operation (close
9		. ,
10	Record	upper interface or control)
10	Record	Start or stop record manually
		In record interface, working with
		the direction buttons to select the
		record channel.
		Click this button for at least 1.5
		seconds, system can go to the
		Manual Record interface.
11	Direction keys	Switch current activated control,
		go to left or right.
		In playback mode, click up/down
		button to switch playback
		channel. In 1-window playback
		mode, click left/right button to
		control playback speed
		Aux function(such as switch the
		PTZ menu, enable/disable reuse
		button)
12	Confirm /menu key	go to default button
		go to the menu
13	Multiple-window switch	Switch between multiple-window
		and one-window.
14	Auxiliary key	In 1-ch monitor mode: pop up
		assistant function: PTZ control
		and Video color.
		Switch the PTZ control menu in
		PTZ control interface.
		In motion detection interface,
		working with direction keys to
		complete setup.
		In text mode, click it to delete
		character.
15	0-9 number key	Input password, channel or
		switch channel.
		Shift is the button to switch the
		input method.

2.4 Mouse Operation

Please refer to the following sheet for mouse operation instruction.

Left click	When you have selected one many item left click mayse to view many			
mouse	When you have selected one menu item, left click mouse to view menu content.			
mouse	Modify checkbox			
	Click combo box to pop up dropdown list			
	In input box, you can select input methods. Left click the corresponding button			
	on the panel you can input numeral/English character (small/capitalized). Here ← stands for backspace button stands for space button.			
	In English input mode: _stands for input a backspace icon and \leftarrow stands for			
	deleting the previous character.			
	!?@#\$%=+* 123 qwertyuiop/ 456 asdfghjkl:Enter 789 z×cvbnm,.Shift 0&			
	!?@#\$% = + * ← 123 QWERTYUIOP/ 456 ASDFGHJKL:Enter 789 ZXCVBNM,.Shift □0&			
	In numeral input mode: _ stands for clear and \leftarrow stands for deleting the			
	previous numeral.			
Double left	Implement special control operation such as double click one item in the file list			
click mouse	to playback the video.			
	In multiple-window mode, double left click one channel to view in full-window.			
	Double left click current video again to go back to previous multiple-window			
	mode.			
Right click	In real-time monitor mode, pops up shortcut menu.			
mouse	Exit current menu without saving the modification.			
Press	In numeral input box: Increase or decrease numeral value.			
middle	Switch the items in the check box.			
button	Page up or page down			
Move	Select current control or move control			
mouse				
Drag	Select privacy mask zone.			
mouse				

3 Installation and Connections

Note: All the installation and operations here should conform to your local electric safety rules.

3.1 Check Unpacked DVR

When you receive the DVR from the forwarding agent, please check whether there is any visible damage. The protective materials used for the package of the DVR can protect most accidental clashes during transportation. Then you can open the box to check the accessories.

Please check the items in accordance with the list (Remote control is optional). Finally you can remove the protective film of the DVR.

Note

Remote control is not a standard accessory and it is not included in the accessory bag.

3.2 About Front Panel and Rear Panel

For detailed information of the function keys in the front panel and the ports in the rear panel, please refer to the appendix for detailed information.

The model in the front panel is very important; please check according to your purchase order. The label in the rear panel is very important too. Usually we need you to represent the serial number when we provide the service after sales.

3.3 HDD/SIM Card Installation

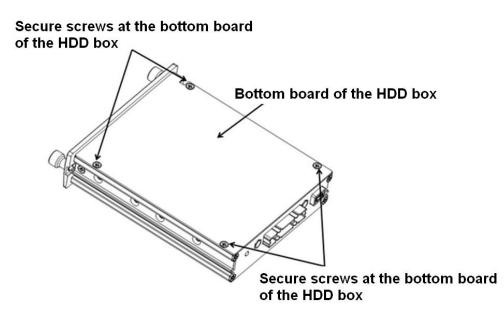
3.3.1 HDD Installation

Important

- Shut down the device and unplug the power cable before install/remove the HDD.
- The e-lock on the right side of the front panel shall be unlocked when you install/remove the HDD. Please lock the button before you boot up the device.

The unit you received has no HDD. Please remove the HDD box from the device and then follow the steps listed below to install.

1) The HDD box and the parts are shown as below. See Figure 3-1. It includes bottom board of the HDD box and screws.





2) Please loosen the screws of the bottom board of the HDD box and then remove the bottom board. Now you can see an interface shown as in Figure 3-2.

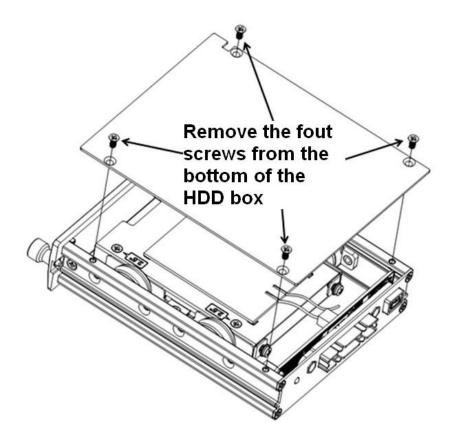


Figure 3-2

3) Now you can see an interface shown as in Figure 3-3. Use four screws to secure the HDD on the bracket and then use two screws to fasten the bracket on the bottom board.

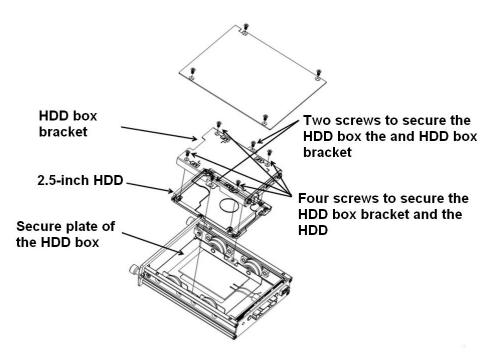


Figure 3-3

3.3.2 SIM Card Installation

This series product supports built-in SIM card. See Figure 3-4.

Remove the HDD box and then open the SIM card slot. Insert the SIM card and then close the cover.

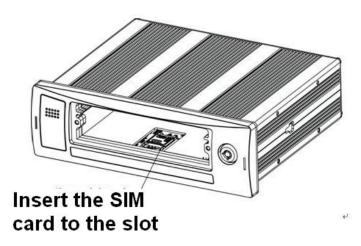


Figure 3-4

3.4 Connecting Power Supply

Please check input voltage and device power button match or not.

We recommend you use UPS to guarantee steady operation, DVR life span, and other peripheral equipment operation such as cameras.

3.5 Connecting Audio/Video Input and Output Devices

3.5.1 Video Input

The input video format includes: composite signal PAL/NTSC $1.0V_{\text{P-P}}$,75 Ω .

The video signal should comply with your national standards.

The input video signal shall have high SNR, low distortion; low interference, natural color and suitable lightness.

Guarantee the stability and reliability of the camera signal:

The camera shall be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and 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, sound shielded BNC. Please select suitable BNC model according to the transmission distance.

If the distance is too long, you should use twisted pair cable, and 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 the high tension current.

Keep connection lugs in well contact

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

4-pin aviation output port: for audio/video input. See Figure 3-5.



SN	Function	
1	VCC	
2	Signal GND	
3	Power GND	
4	Signa1	

Figure 3-5

3.5.2 Video output

Video output includes a BNC(PAL/NTSC BNC (1.0VP- P, 75 Ω) output and a VGA output. When you are using pc-type monitor to replace the 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 device maintain proper status.
- Keep it away from strong electromagnetic interference devices.

Using TV as video output device is not a reliable substitution method. You also need to reduce the working hour and control the interference from power supply and other devices. The low quality TV may result in device damage.

Important

Please use the connection cable (not provided) when you use the VGA output.

3.5.3 Audio Output

The audio output signal parameter is usually over 200mv 1K Ω . It can directly connect to low impedance earphone, active sound box or amplifier-drive audio output device.

Please refer to Figure 3-6. It is for audio and video output.

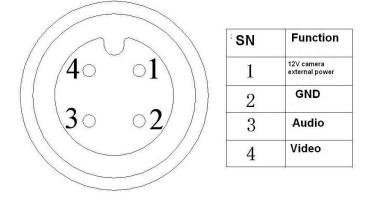


Figure 3-6

3.6 Alarm Input and Output Connection

There are two alarm input types for you to select: normal open (NO) and normal close (NC).

1. Alarm input

a. Alarm input supports grounding alarm input.

b. Alarm input 1-16 supports 12V voltage signal alarm input.

c. When the alarm device is connecting one DVR and one other device, please use a relay to separate them,

2. Alarm output

a. Ensure the decoder has the same grounding with DVR, otherwise you may not control the PTZ. Shielded twisted wire is recommended and the shielded layer is used to connect to the grounding.

b. Avoid high voltage. Ensure proper wiring and some thunder protection measures.

c. For too long signal wires, 120Ω should be parallel connected 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 other device.

e. The voltage between of A,B lines of the decoder should be less than 5v.

3. PTZ decoder connection

Support 2-channel analog signal level input. <0}

4. Please make sure the front-end device has soundly earthed.

Improper grounding may result in chip damage.

3.6.1 Alarm Input and Output Details

Alarm input and output interface is shown as in Figure 3-7.

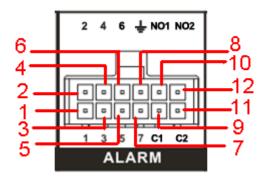


Figure 3-7

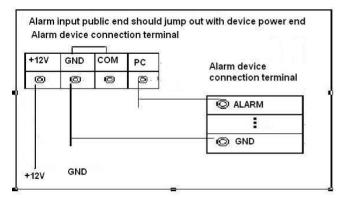
Name	Pin Introduction	
1~6	Alarm input 1 \sim Alarm input 6	
7	Pulse input	
8/10	Alarm GND	
9	Controllable 12V	
11/12	1/12 NO/C of alarm on-off signal	

Please refer to the following sheet for detailed information.

3.6.2 Alarm Input Port

Please refer to the following sheet for more information. See Figure 3-8.

- Normal open or Normal close type.
- Please parallel connect COM end and COM 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.





3.6.3 Alarm Output Port

- Alarm output is level input, output voltage is 12V. The max load shall be less than 12V/1A. It should not be connected to high power load directly to avoid high current which may result in relay damage. Please use the co contactor to realize the connection between the alarm output port and the load.
- To avoid overloading, please read the following relay parameters sheet carefully.

Relay Specification

Model: HFD23		
Contact	Contact mode	1Z
Parameter	Contact resistance	100mΩ(0.1A 6VDC)
	Contact material	AgNi+gold-plating
	Contact	0.5A 125VAC/1A 30VDC
	Max switch voltage	125VAC / 60VDC

	Max switc	h current	2A
Max switch power			62.5VA/30W
	Min allowed load		1mA 5V
			1x10 ⁷ (300/min)
	Electric du	urability	1x10 ⁵ (30/min)
Performance	Insulation	resistance	1000MΩ(500VDC)
Parameter	Media	Between	1000VAC 1min
	pressure	loop and	
		Between	400VAC 1min
		separated	
		contact	
	Operation	time (Rated	≤5ms
	voltage))		
	Release	time (Rated	≤5ms
	voltage)		
	Bound	time (Rated	About 5ms
	voltage)		
	Loop	temperature	≤65K
	rise(Rated voltage)		
	Strike		98m/s2
	Vibration		10Hz~55 Hz 3.3mm Double amplitude
	Humidity		98% RH, 40℃
	Temperature		-30℃~70℃
	Weight		About 2.2g
	leading-out end mode		DIP
Seal mode		Э	Sealed
Loop	Rated Loop Power		Standard mode: 200mW; Sensitivity mode:
			150mW

4 Operation

4.1 Boot up& Shutdown

The buzzer beeps once after system successfully booted up.

You can see the corresponding record status indictor light if system is recording after booted up. The system can automatically backup video and resume previous working status after power outage.

4.1.1 Boot up

Turn the key to ACC, you can see power indicator light becomes on and DVR boots up (DVR boots up might take several seconds). After booted up, system is in multiple-window mode and schedule record status (Chapter 4.9.3) by default. The record indicator light becomes on too if the device is in the record period.

In the default setup, the device will automatically shut down after the ACC power is disconnected.

The ACC delay value ranges from 0 to 65535 (Unit: minute). System can delay shutting down for the specified time and then turn off (Main menu->Advanced->Auto maintenance).

4.1.2 Schedule Boot up & Shutdown

System enables schedule record function if the boot up is within the specified period. You can see the corresponding record indicator light becomes on and system runs normally.

4.2 Startup Wizard

After system booted up, system pops up the startup wizard.

Click the Cancel button; you can go to the system login interface.

Click the Next Step button; you can login first and then go to the startup wizard interface. Here you can set the system basic information. See Figure 4-1.



Figure 4-1

4.3 Login

You can see login interface. See Figure 4-2.

System consists of three accounts. You can refer to chapter 4.10.4 Account for detailed operation information.

- Username: admin. Password: admin. (administrator, local and network)
- Username: 888888. Password: 888888. (administrator, local only)
- Username: default. Password: default(hidden user)

You can use USB2.0 mouse to input. Click **123** to switch between numeral, English character

(small/capitalized) and denotation.

Note:

For security reason, please modify password after you first login.

Continuous three times login failure will result in system alarm and five times login failure will result in account lock.

8	SYSTEM LOGIN
	User Name 8888888 🔻 Password
	OK Cancel

Figure 4-2

4.4 Preview

After you successfully logged in, you can go to preview interface directly. See Figure 4-3. You can overlay the corresponding date, time and channel name on each screen. You can refer to the following sheet for detailed information.

SN	Icon
1	Display plate number. For detailed setup information, please refer to chapter 4.9.1 General.
2	Display device working temperature.
3	Display current vehicle speed.
4	Display system time and date.
5	Network icon. It includes WIFI, 3G, GPRS, DSS platform.
6	Current longitude and latitude.
7	: Video loss occurs.
8	Current channel is recording now.



Figure 4-3

4.5 Right-Click Menu

On the preview interface, right click mouse, you can view menu interface shown as in Figure 4-4.

This series product supports 1/4-window mode.

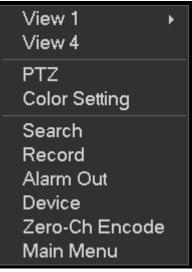


Figure 4-4

4.5.1 Window Switch

System supports 1/4-window. You can select from the dropdown list. See Figure 4-5.

View 1 →	CAM 1
View 4	CAM 2
PTZ	CAM 3
Color Setting	CAM 4
Search	-
Record	
Alarm Out	
Device	
Zero-Ch Encode	
Main Menu	

Figure 4-5

4.5.2 PTZ Control

Before you go to PTZ control interface, please go to chapter 4.9.8 to set PTZ parameter. See Figure 4-6.



Figure 4-6

4.5.3 Color

Here you can set hue, brightness, contrast, saturation, gain, white level, color mode and etc. See Figure 4-7.

	COLOR SETTING	
Period Hue Brightness Contrast Saturation	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Gain White Level Color mode	50 50 Iow Iow Customized1 Istomized Default OK Cancel	

Figure 4-7

4.5.4 Search

Please refer to chapter 4.6.

4.5.5 Record Control

Please refer to chapter 4.10.3.

4.5.6 Alarm Output

Please refer to chapter 4.10.2.

4.5.7 Device Info

Please refer to chapter 4.7.5.

4.5.8 Zero-channel encoding

Please refer to chapter 4.9.9.

4.5.9 Main Menu

After you logged in, the system main menu is shown as below. See Figure 4-8. There are total seven icons: search, Information, vehicle, setting, backup, advanced and shutdown. Move the cursor to highlight the icon, then double click mouse to enter the sub-menu.



Figure 4-8

4.6 Search & Playback

Click search button in the main menu, search interface is shown as below. See Figure 4-9.

1		2
		REC ▼ From R/W HDD ▼ Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
	6	
		0: 00: 00 - 00: 00 - 00: 00 - 7 6 17 18 19 20 21 22 23 24 - 8
Stop	⊠ All Normal 10	Alarm Q200

Figure 4-9

Please refer to the following sheet for more information.

SN	Name	Function		
1	Display	Here is to display the searched picture or file.		
	window	 For this series product, it supports 1-channel 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 I/O device. The interface is shown as below if you want to search a picture. You can set activation interval. See Figure 4-10. 		
		Interval 1 sec Figure 4-10		
3	Calendar	 The blue highlighted date means there is picture or file. Otherwise, there is no picture or file. In any play mode, click the date you want to see, you can see the corresponding record file trace in the time bar. 		
4	Playback	Playback mode: 1 channel.		
	mode	• The time bar will change once you modify the playback mode or the channel		
	and	option.		

	channel		
	selection		
	pane.		
5		 Double click it; you can view the picture/record file list of current day. The file list is to display the first channel of the record file. The system can display max 128 files in one time. Use the ▲/▼ or the mouse to 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 and click button to playback. 	
	File list switch button	 begin accurate search. File type: R—regular record; A—external alarm record. Lock file. Click the file you want to lock and click the button is to lock. The file you locked will not be overwritten. Search locked file: Click the button is to view the locked file. Return: Click button, system goes back to the calendar and channel setup interface. 	
6	Clip		
7	Save	 Please play the file you want to edit and then click button when you want to edit. You can see the corresponding slide bar in the time bar of the corresponding channel such as and . Click button to save current contents in a new file. You can adjust the slide bar or input the accurate time to set the file end time. Click button to save current contents in a new file. 	
8	Time bar	Display current record type and its corresponding period.	
9	Time bar unit	 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 record. The time bar is beginning with 0 o'clock when you are setting the configuration. The time bar zooms in the period of the current playback time when you are 	
10	Record type	There are three modes: Alarm/regular/all. In any play mode, the time bar will change once you change record type.	
11	Playback control pane.	 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. 	

			Otors				
			Stop				
			Backward p	-			
		<		play mode, left click the button, the file begins backward play.			
			•	in to pause current play.			
				d play mode, click ►/ II to restore normal play.			
				playback mode, click it to play the next or the previous section. You can			
		◀/		uously when you are watching the files from the same channel.			
				blay mode, when you pause current play, you can click \blacktriangleleft and			
			► to begi	n frame by frame playback.			
			In frame by	r frame playback mode, click \blacktriangleright / II to restore normal playback.			
		Þ	Slow play				
			In playback	mode, click it to realize various slow play modes such as slow			
			play 1, slov	v play 2, and etc.			
			Fast forwar	rd			
		**	In playback	k mode, click to realize various fast play modes such as fast			
			play 1,fast play 2 and etc. The actual play speed has relationship with the software version.				
		Note:					
			The volume of the playback				
			Click the snapshot button in the full-screen mode, the system can				
			1 picture pe	er second.			
			System su	pports custom snap picture saved path. Please connect the			
		U	peripheral	device first, click snap button on the full-screen mode, you can			
			select or cr	reate path. Click Start button, the snapshot picture can be saved			
			to the spec	ified path.			
				Other Functions			
	Other		channel				
13	synchronization switch to play		vitch to play	When playing the file, click the number button, system can			
	when playback			switch to the same period of the corresponding channel to play.			
				When the system is in full-screen playback mode, left click			
14	Digital 700	m		the mouse in the screen. Drag your mouse in the screen to			
14	Digital zoom			select a section and then left click mouse to realize digital			
				zoom. You can right click mouse to exit.			

Note:

All the operations here (such as playback speed, channel, time and progress) have relationship with hardware version. Some series DVRs do not support some functions or playback speeds.

4.7 Information

Here is for you to view system information. There are total eight items: HDD (hard disk information), BPS (data stream statistics), log, version, online user, device, and network. See Figure 4-11.

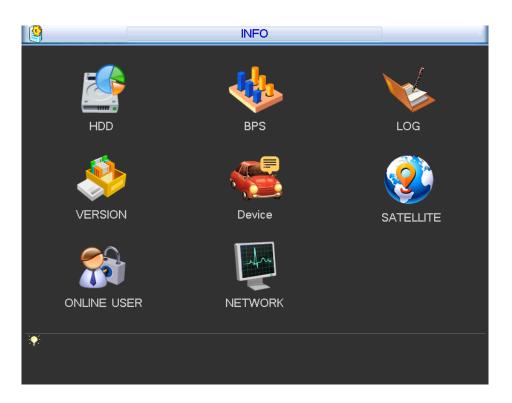


Figure 4-11

4.7.1 HDD Information

Here is to list hard disk type, total space, free space, and status. See Figure 4-12.

• means current HDD/SD card is normal.. - means there is no HDD.

If disk is damaged, system shows as "?". Please remove the broken hard disk before you add a new one.

Once there is a hard disk confliction, please check hard disk time and system time is the same or not. Please go to setting then general to modify system time. At last, reboot the system to solve this problem.

After system booted up, if there is any confliction, system goes to HDD information interface directly. Please note, system does not ask you to deal with it forcedly.

			HDD		
SATA 1	2				
- All	- Туре	Total Space	Eroo Spaco	Status	S.M.A.R.T.
All	туре	0.00 MB	Free Space 0.00 MB	- Status	3.IVI.A.N.T.
•	<u> </u>		1		
Id Page	Up 🙌 Page [Down	Fr	View rec	ording times

Figure 4-12

Parameter	Function			
SATA	1-2 here means system max supports 2HDDs.			
	When HDD is working properly, system is shown as O "_" means there is no HDD.			
SN	You can view the HDD amount the device connected to;			
	* means the second HDD is current working HDD.			
Туре	The corresponding HDD property.			
Total space	The HDD total capacity.			
Free space	The HDD free capacity.			
Status	HDD can work properly or not.			
Bad track	Display there is bad track or not.			
Page up	Click it to view previous page.			
Page down	Click it to view the next page.			
View recording time	Click it to view HDD record information (file start time and end time).			
View HDD type and capability	Click it to view HDD property, status and etc,			

4.7.2 BPS

Here is for you to view current video data stream (Kb/S) and occupied hard disk storage (MB/h). See Figure 4-13.

*				BPS		
Channel	Kb/S	MB/H	Wave			
1	41	21	1		[
2	28	12	1		[
3	28	12	1		[
4	28	12	1		Ē	
8						

Figure 4-13

4.7.3 Log

Here is for you to view system log file. System lists the following information. See Figure 4-14. Log types include system operation, configuration operation, data management, alarm event, record operation, account management, log clear, file operation and etc.

- Start time/end time: Pleased select start time and end time, then click search button. You can view the log files in a list. System max displays 100 logs in one page. It can max save 1024 log files. Please use page up/down button on the interface or the buttons of the front panel to view more.
- Backup: Please select a folder you want to save; you can click the backup button to save the log files. After the backup, you can see there is a folder named Log_time on the backup path. Double click the folder, you can see the log file
- Details: Click the Details button or double click the log item, you can view the detailed information. See Figure 4-15. Here you can use rolling bar to view information, or you can use Page up/Page down to view other log information.

×	LOG							
Түре								
	me 2014 - 04 - 14 00 : 00 : 00 Details							
End Tin	ne 2014 - 04 - 15 00 : 00 : 00 (Search)							
27	Log Time Event							
1	2014-04-14 14:45:34 User logged in<888888>							
2	2014-04-14 13:24:14 User logged in<10.15.6.96>							
3	2014-04-14 13:24:14 HDD totals<0>, Current working HDD<->							
4	2014-04-14 13:24:14 <\/ideo Loss : 4>							
5	2014-04-14 13:24:14 <\/ideo Loss : 3>							
6	2014-04-14 13:24:14 <\/ideo Loss : 2>							
7	2014-04-14 13:24:14 <\/ideo Loss : 1>							
8	2014-04-14 13:24:14 Reboot with Flag [0x00]							
9	2014-04-14 13:24:14 Shut down at [14-04-14 13:19:41]							
10	2014-04-14 13:19:50 User logged in<8888888>							
11	2014-04-14 13:17:56 User logged in<10.15.6.96>							
12	2014-04-14 13:17:56 HDD totals<0>, Current working HDD<->							
40								
🔰 📢 Page	ld Page Up ▶I Page Down (Backup) (Clear)							
PrePa	age) (NextPage) 1/1(Current/Total) Jump To 1 (GO)							

Figure 4-14

V	Detailed Information
Log Time	2014-04-14 13:24:14
Log Type	Alarm Event>Event Begin
Event Type	Video Loss
Channel	<4>
Start Time	2014-04-14 13:24:00
Previous	Channel 4 T Playback

Figure 4-15

4.7.4 Version

Here is for you to view some version information. See Figure 4-16.

- System version:
- Build Date
- Web
- Serial number
- Model
- Upgrade
- Start: Please insert the USB device that have the update file to the device and then click the Start button to begin the update. See Figure 4-17.

Important

Please make sure the upgrade file name shall be update.bin.

<u></u>	VERSION						
System Version	System Version 3.200.0004.0						
Build Date	2014-03-21						
Web	3.0.0.1						
Serial No.	YPG4CQ071W00036						
Model UPGRADE	MDVR						
	ograde system now,please insert USB,then press the start button to start hut down the power during upgrade!						

Figure 4-16

<u></u>	Sys	tem Upgrade			
Device Name Total Space	sda1(USB DISK) 💌 14.43 GB	Refresh Free Space	13.77 GB		
Address	1				
Name		Size	Туре	Delete	^
📂 SD			Folder	×	FI .
📂 English			Folder	× ×	
5563277	7_20140225		Folder	×	- -
Update File			Start	Back	\supset

Figure 4-17

4.7.5 Device

Here you can view some device basic information. It includes ACC status, voltage, record status, HDD status, GPS status, DSS registration status, 3G dial status, WIFI connection status. See Figure 4-18.

1	Device			
	ON 11.9V 1 2 3 4 5 6 7 8 × × × × × × × × No HDD			
HDD Status	tus No HDD (Details)			
GPS Status	To be positioned Details			
DSS Status	Disconnected : Network is offline Details			
3G Status	Disconnected : No Module Details			
WIFI Status	Disconnected : No Module Details			

Figure 4-18

4.7.6 Satellite Info

It is to display satellite positioning status and searched results. See Figure 4-19.

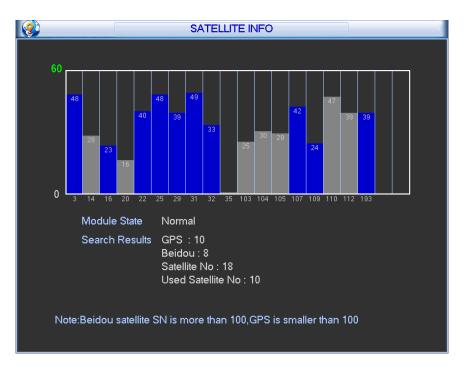


Figure 4-19

4.7.7 Online Users

Here is for you manage WEB online users connected to the local device. See Figure 4-20. You can disconnect one user or block one user if you have proper system right.

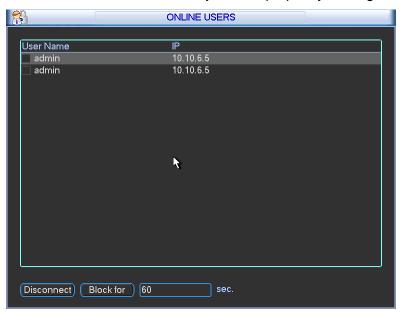


Figure 4-20

4.7.8 Network Test

Network test interface is shown as in Figure 4-21.

Destination IP: Please input valid IPV4 address and domain name.

Test: Click it to test the connection with the destination IP address. The test results can display average delay and packet loss rate and you can also view the network status as OK, bad, no

connection and etc.

Network Sniffer backup: Please insert USB2.0 device and click the Refresh button, you can view the device on the following column. You can use the dropdown list to select peripheral device. Click Browse button to select the snap path. The steps here are same as preview backup operation.

		NETWORK INFO			
NETWORK TEST	NETWORK TEST NETWORK LOAD				
Network Test_	Network Test				
Destination IP	10.36.43.86 (Test				
Test Result	Average Delay:3.63	0ms Packet Loss Rate:0% 3	3G State:OK		
Network Sniffer	Packet Backup				
Device Name		▼ Refresh			
Address			Browse		
Name	IP	Sniffer Packet Size	Sniffer Packet Backup		
LAN1	10.43.3.63	0KB	►		

Figure 4-21

4.7.9 Network Load

Network load is shown as in Figure 4-22. Here you can view the follow statistics of the device network adapter. The green wave is send out speed and red wave is receive speed.

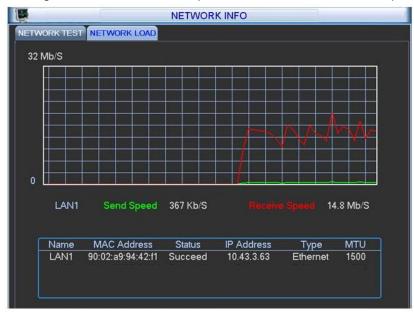


Figure 4-22

4.8 Vehicle

The vehicle interface is shown as below. See Figure 4-23. It includes eight buttons:

3G/Wifi/G-sensor/register/maintain/abnormal/TV adjust/speed.



Figure 4-23

4.8.1 3G

3G setup interface is shown as below. See Figure 4-24. Please follow the steps listed below to set.

- a) Boot up 3G module and then check the 3G Enable box to enable this function.
- b) Please set AUTH, dial number, user name, and password. Please contact the VPN administrator or your 3G service provider for detailed setup information.
- c) 3G network is to connect to a platform so that you can view vehicle real-time information such as real-time video, driver status, vehicle position and etc.
- d) The WIFI has the higher priority than the 3G network when these two signals are available at the same. In this situation, the device uses WIFI network by default and disconnect 3G network.
- e) If you find the 3G module can not connect to the platform after dial. Please refer to the FAQ or contact your local retailer for help.

Please refer to the following contents for the parameter information.

- Pane 1: Display 3G signal intensity after you enabled 3G function.
- Pane 2: Display 3G module configuration information after you enabled 3G function.
- Pane 3: Display 3G module status information after you enabled 3G function.

It is to display current wireless network signal intensity such as EVDO, CDMA1x, WCDMA, WCDMA, EDGE and etc.

- 3G network: It is to display current wireless network adapter name.
- 3G Enable/Disable: Check the box here to enable 3G module.
- Network type: There are various network types for different 3G network modules. You can select according to your requirements.

- APN: It is the wireless connection server. It is to set you access the wireless network via which method.
- AUTH: It is the authentication mode. It supports PAP/CHAP/ NO AUTH.
- Dial number: Please input 3G network dialup number you got from your ISP.
- User name: It is the user name for you to login the 3G network.
- Password: It is the password for you to login the 3G network.
- 3G wireless network: Here is to display wireless network status, SIM card status, dial status. If the 3G connection is OK, then you can see the device IP address the wireless network automatically allocates.

		3G			
No signal					1
G Network Network Type APN AUTH Dial Number	te0	3G Enable		3G Flow –	2
3G Wireless Network Module State Device Ready SIM State Available PPP State Connecting Status Unknow Moudle Type 8300W		IP Address - Subnet Mask - Default Gateway - Working Mode - IMSI 460040096201038			3
Default			Cancel	Apply	L

Figure 4-24

• 3G flow control: It is to show the 3G flow you used. See Figure 4-25.

	3G Flow
Flow use policy Flow threshold(M)	Flow amount i
Current used flow(K)	226118 K = 220 M
ОК (Cancel Clear

Figure 4-25

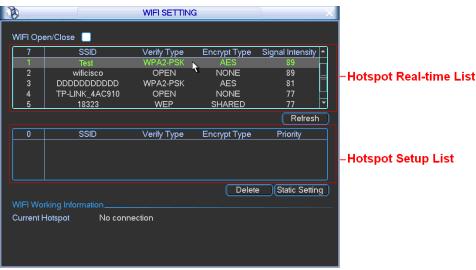
4.8.2 WIFI

The WIFI interface is shown as below. See Figure 4-26.

Please follow the steps listed below to set.

a) Boot up a WIFI module and then check the Auto Connect WIFI box to enable WIFI function.

- b) In Figure 4-26, click Refresh button to view the entire WIFI signals available.
- c) Double click a WIFI signal on the list, you can see the WIFI connection dialogue box.
- d) Select the corresponding verification type. Please contact your network administrator if you do not know how to select the type here. The WIFI connection shall set proper password. Usually we recommend the verification type as WPA2-PSK instead of WEP.
- e) Input WIFI connection password.
- f) Please select DHCP if your WIFI is to auto allocate IP address. Please set the corresponding IP/subnet mask/gateway if your WIFI needs a specified IP.
- g) Please note you must set WIFI priority when you set. The priority ranges from 1 to 5 and the 5 has the highest priority. When there are several WIFI signals available, system can try to connect one by one according to the priority setup.
- h) Please click Save button to save the setup and then click Connect button to connect manually.
- After you save WIFI hotspot setup, you can view it on the static setup interface. After device booted up, system can auto connect to the hotspot you set at the static setup interface once the Auto connect WIFI box is checked.
- j) Please disconnect WIFI connection before you modify WIFI network parameter. Do not modify WIFI setup when it is online.





WIFI Connection and Disconnection

Double click one hotspot; system goes to WIFI connection interface. See Figure 4-27. Please input password and click Connect button. System needs to turn off current connection and then connect to a new hotspot, if there is a connection.

WIFI Connection X						
SSID	Test					
Status	No connection					
Priority	1					
Verify Type	WPA2-PSK					
Encrypt Type	AES					
Password	•••••					
	7					
IP Address	0 · 0 · 0 · 0 DHCP					
Subnet Mask	0 . 0 . 0 . 0					
Gateway	0 . 0 . 0 . 0					
Connection Save Cancel						

Figure 4-27

After successfully connection, you can see the following interface. You can see it is connected now. See Figure 4-28.

	Static Setting
SSID	Test
Status	Connected
Priority	1
Verify Type	WPA2-PSK
Encrypt Type	AES
Password	•••••
IP Address	192 · 168 · 1 · 100 DHCP
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 1 . 1
DisCor	nnect) Save Cancel



After setup, you can click Save button to add it to the hotspot setup list. Besides, you can double click a hotspot on the hotspot real-time list and input password, and then click Save button to save it to the hotspot setup list.

Device auto connects to hotspot

After device booted up (WIFI function is enabled), device can automatically connect to the hotspot according to priority on the hotspot setup list. System stops until it successfully connects to one hotspot. Device is in the hotspot connection status if there is no saved hotspot within current range.

- Delete: It can delete a hotspot from the hotspot setup list.
- WIFI working information: After system successfully connected to WIFI, you can view hotspot name, IP address, subnet mask, default gateway and etc. See Figure 4-29.

Note:

- On the static setting interface (Figure 4-28), only the hotspot of WEB authentication mode can supports key-index.
- The hotspot setup list max can save 5 hotspots. The highest priority is 5. The priority shall be unique.
- System does not support connect to hotspot of OPEN encryption mode.
- The Static setting does not support the SSID of open verification type.
- System can switch between WIFI and 3G freely. You can enable WIFI and 3G network at the same time. WIFI connection has the higher priority. System automatically connects to 3G network if the WIFI connection failed.

B		WIFI SETTING	à	×
WIFI Op	en/Close 📃			
7	SSID	Verify Type	Encrypt Type	Signal Intensity 🔺
1	Test	WPA2-PSK	AES	89
2	wificisco	OPEN	NONE	89 _
3	DDDDDDDDDDD	WPA2-PSK	AES	81 🛑
4	TP-LINK_4AC910	OPEN	NONE	77
5	18323	N WEP	SHARED	77 💌
		.,		Refresh
2	SSID	Verify Type	Encrypt Type	Priority
1	dvr	WEP	AUTO	5
2	Test	WPA2-PSK	AES	1
			Delete	e Static Setting
WIFI Wo	rking Information			
Current H	Hotspot Test			
IP Addre	ss 192.168	3.1.100		
Subnet N	/lask 255.255	5.255.0		
Gateway	192.168	3.1.1		

Figure 4-29

4.8.3 G-Sensor

The G-Sensor interface is shown as in Figure 4-30. Here you can correct G-sensor.

<u>()</u>	G-SENSOR
X(Horizontal) Y(Lateral) Z(Vertical) Reset	00005 00012 00255
	OK Cancel

Figure 4-30

4.8.4 Register

This function allows the device to auto register to the proxy you specified. In this way, you can use the client-end to access the DVR and etc via the proxy. Here the proxy has a switch function. In the network service, device supports the server address of IPv4 or domain.

Please follow the steps listed below to use this function.

Please set proxy server address, port, and sub-device name at the device-end. Please enable the auto register function, the device can auto register to the proxy server.

1) The setup interface is shown as in Figure 4-31.

Important

Do not input network default port such as TCP port number.

	REGISTER
Enabl	٩
No.	 [1]▼]
Server IP	10 . 15 . 6 . 96
Port	9500
ID	50001
Default	OK Cancel



2) The proxy server software developed from the SDK. Please open the software and input the global setup. Please make sure the auto connection port here is the same as the port you set in the previous step.

3) Now you can add device. Please do not input default port number such as the TCP port in the mapping port number. The device ID here shall be the same with the ID you input in Figure 4-31. Click Add button to complete the setup.

4) Now you can boot up the proxy server. When you see the network status is Y, it means your registration is OK. You can view the proxy server when the device is online.

Important

The server IP address can also be domain. But you need to register a domain name before you run proxy device server.

4.8.5 Auto Maintenance

Here you can set auto-reboot time and auto-delete old files, auto shutdown, and auto ACC delay (0-65535 minutes) setup. You can set to delete the files for the specified days. See Figure 4-32. After all the setups please click save button, system goes back to the previous menu. **Note**

• The auto boot up and ACC delay function is only valid when vehicle ACC signal connection is OK. The auto shut down has higher priority than ACC delay. If you enable these two functions at the same time, the ACC delay function is null.

MAINTAIN
Auto-Reboot System Tuesday at 02:00 Auto-Delete Old Files Never
Auto Boot up Never at 00:00 Auto Shutdown System Never at 00:00
ACC Delay 30 min.
OK Cancel

Figure 4-32

4.8.6 Abnormal

Abnormal interface is shown as in Figure 4-33 and Figure 4-34.

- Event type: There are several options for you such as disk error, no disk, no space, high temperature, low battery, over speed, low speed and etc. (multiple choices).
- Enable: Check the box here to enable this function.
- Alarm output: Please select alarm activation output port (multiple choices).
- Less than: You can set HDD threshold here so that system can alert you once the HDD space is lower than the threshold here.
- Latch: Here you can set corresponding delaying time. The value ranges from 1s-300s. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
- Show message: system can pop up the message in the local screen to alert you when an alarm occurs.
- Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
- Send email: System can send out email to alert you when an alarm occurs.
- Restart system: If you highlight the button here, system will restart automatically if there is no HDD.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.

Ĩ	ABNORMAL
Event Type Enable	
	12 Latch 10 sec. Alarm Upload Send Email
Buzzer	
	Save Cancel



	ABNORMAL
Event Type Enable	HDD No Spac -
Less Than	20%
Buzzer	Alarm Upload Send Email
	Save Cancel

Figure 4-34

4.8.7 TV Adjust

Here is for you to adjust TV output setup. See Figure 4-35.

Please drag slide bar to adjust each item.

After all the setups please click OK button, system goes back to the previous menu.

	TV ADJUST
Top Margin Bottom Margin Left Margin	1 0
Right Margin Brightness	■■■■■■■■■■■■■
Default	OK Cancel

Figure 4-35

4.8.8 Speed

In this interface, you can view vehicle running kilometers information. See Figure 4-36.

		SPEED		
Speed Ratio Mileage Ratio Mileage(KM) Start Mileage	6400 1 0.0 0.0	Speed(KM/H) 0.0 Mileage Cumulation Clear KM(Such as 1.0KM)	Always	
Default			Save	Cancel

Figure 4-36

4.9 Setting

In main menu, highlight setting icon and double click mouse. System setting interface is shown as below. See Figure 4-37.



Figure 4-37

Important

Please note you need to have the proper right to implement the following operation.

4.9.1 General

General setting includes the following items. See Figure 4-38.

- System time: Here is for you to set system time
- Date format: There are three types: YYYYY-MM-DD: MM-DD-YYYYY or DD-MM-YYYY.
- Date separator: There are three denotations to separate date: dot, beeline and solidus.
- DST: Here you can set DST time and date. Please enable DST function and then click set button. You can see an interface is shown as in Figure 4-39. Here you can set start time and end time by setting corresponding week setup. In Figure 4-39, enable date button, you can see an interface is shown as in Figure 4-40. Here you can set start time and end time by setting corresponding date setup.
- Time format: There are two types: 24-hour mode or 12-hour mode.
- Language: System supports various languages: Chinese (simplified), Chinese (Traditional), English, Italian, Japanese, French, Spanish (All languages listed here are optional. Slight difference maybe found in various series.)
- HDD full: Here is for you to select working mode when hard disk is full. There are two options: stop recording or rewrite. If current working HDD is overwritten or the current HDD is full while the next HDD is no empty, then system stops recording, If the current HDD is full and then next HDD is not empty, then system overwrites the previous files.
- Pack duration: Here is for you to specify record duration. The value ranges from 1 to 120 minutes. Default value is 60 minutes.
- License No: Here you can set vehicle plate number.
- Auto logout: Here is for you to set auto logout interval once login user remains inactive for a specified time. Value ranges from 0 to 60 minutes.
- Preview bar: Check the box here, system displays the navigation bar on the interface when you boot up device the next time. Otherwise, it goes to the system login interface directly. You can check the box to select overlay position.

• Startup wizard: Once you check the box here, system will go to the startup wizard directly when the system restarts the next time. Otherwise, it will go to the login interface.

Note:

Since system time is very important, do not modify time casually unless there is a must! Before your time modification, please stop record operation first!

After completing all the setups please click save button, system goes back to the previous menu.

1	GENERAL
System Time Basic Settings_	2014 - 04 - 14 15: 03: 23 Save
Date Format Date Separator	YYYY MM DD ▼ DST Setup - ▼ Time Format 24-HOUR ▼
Device Settings_ Language Video Standard	ENGLISH HDD Full Overwrite Ack Duration
License No. Other Settings_ Auto Logout	12345 10min. Preview Bar ○ Top ● Bottom
📄 Startup Wiza	rd
(Default	OK Cancel

Figure 4-38

8		DST		X
Day of We	ek O Date			
Start: Jun	▼ 1st ▼	Sat 🔻	00 : 00	
End: Sep	▼ 1st ▼	Sun 🔻	00 : 00	
	OK	Cance	el D	

Figure 4-39

	DST	X
O Day of Week (Date	
Start: 💽 2008 -	06 - 01 00 : 00	
End: 💽 2008 -	09 - 01 00 : 00	
	OK Cancel	

Figure 4-40

4.9.2 Encode

Encode setting includes the following items. See Figure 4-41. Please note some series do not support extra stream.

• Channel: Select the channel you want.

- Type: Please select from the dropdown list. There are two options: regular/alarm. You can set the various encode parameters for different record types.
- Compression: System supports H.264.
- Resolution: System supports various resolutions, you can select from the dropdown list. The first two channels support HDCVI 1080P resolution. The last two channels support HDCVI 720P resolution. System default setup is HDCVI 720P. Please make sure you are connecting to the HDCVI 1080P camera if you want to realize 720P/1080P resolution. For 4-channel analog channel, system supports 4-channel 960H resolution. System does not support audio function.
- Frame rate: It ranges from 1f/s to 25f/s in NTSC mode and 1f/s to 30f/s in PAL mode.
- Bit rate type: System supports two types: CBR and VBR. In VBR mode, you can set video quality.
- Quality: There are six levels ranging from 1 to 6. The sixth level has the highest image quality.
- Video/audio: You can enable or disable the video/audio. The main stream is enabled by default. The record includes audio and video if you highlight audio button here. For extra stream, you need to check video first and then select audio.
- Audio format: Here you can set device audio format: G711a, PCM, G711µ.
- Overlay: Click overlay button, you can see an interface is shown in Figure 4-44. Please note the following overlay titles can not be in the same position. Please note only the unit of GPS module supports GPS overlay function.
 - Cover area (Privacy mask): Here is for you to set privacy mask section. You can drag you mouse to set proper section size. In one channel video, system max supports 4 zones in one channel.
 - Preview/monitor: privacy mask has two types. Preview and Monitor. Preview means the privacy mask zone can not be viewed by user when system is in preview status. Monitor means the privacy mask zone can not be view by the user when system is in monitor status.
 - ☆ Time display: You can select system displays time or not when you playback. Please click set button and then drag the title to the corresponding position in the screen.
 - Channel display: You can select system displays channel number or not when you playback. Please click set button and then drag the title to the corresponding position in the screen.
 - ♦ License No. : You can select system displays car number or not when you playback.
 - ♦ GPS display: You can select system displays latitude and longitude or not when you playback.
- Snapshot: Click snapshot button, you can set snapshot mode, picture size, quality and frequency. See Figure 4-42.
- Snapshot mode: There are two modes: Timing (Schedule) and activation. If you set timing mode, you need to set snapshot frequency. If you set activation snapshot, you need to go to Detect interface (Main menu->Setting-Detect) to set snapshot activation operation.
- ♦ Image size: Here you can set snapshot picture size.
- ♦ Image quality: Here you can set snapshot quality. The value ranges from 1 to 6.
- Interval: It is for you to set timing (schedule) snapshot interval. The value ranges from 1-7 picture(s) per second.

- ♦ Schedule: Click it; you can see an interface shown as in Figure 4-43. Here you can set snapshoot period.
- Copy: After you complete the setup, you can click Copy button to copy current setup to other channel(s). You can see an interface is shown as in Figure 4-45. You can see current channel number is grey. Please check the number to select the channel or you can check the box ALL. Please click the OK button in Figure 4-45 and Figure 4-41 respectively to complete the setup.

Č					
			ENCODE		-
	Channel Type Compression Resolution Frame Rate(FPS) Bit Rate Type	1 ▼ Regular ▼ H.264 ▼ 720P ▼ 30 ▼ CBR ▼	Sub Stream1 H.264 CIF 7 CBR		
	Bit Rate(Kb/S) Reference Bit Rate Audio/Video Audio Format	G711a	160 ▼ 40-256Kb/S		
	Default C	Сору		ОК Са	ncel

Please highlight icon 🔳 to select the corresponding function.

Figure 4-41

	SNAPSHOT		
Mode	Regular	_	
Image Size	CIF		
Image Quality	4		
Interval	1	s	
Schedule	Setup		
C	ок (Cancel	

Figure 4-42

B	Time Period
Channel Period Period 1 Period 2	1 ▼ Tue ▼ 00:00 - 24:00 00:00 - 24:00
Period 3 Period 4	00:00 -24:00 00:00 -24:00
Period 5 Period 6	00:00 - 24:00 00:00 - 24:00
Default	t OK Cancel



	Overlay
Cover-Area	Preview Monitor Setup
Time Display Channel Display License No.	Monitor Setup Monitor Setup Monitor Setup
GPS Display	Monitor Setup
S;	ave Cancel

Figure 4-44

	Сору
AI 1234	
ОК	Cancel

Figure 4-45

4.9.3 Schedule

In the main menu, from setting to schedule, you can go to schedule menu. See Figure 4-46.

- Channel: Please select the channel number first. You can select "all" if you want to set for the whole channels.
- Week day: There are eight options: ranges from Saturday to Sunday and all.
- Pre-record: System can pre-record the video before the event occurs into the file. The value ranges from 1 to 30 seconds depending on the bit stream.

- Redundancy: System supports redundancy backup function. It allows you backup recorded file in two disks. You can highlight Redundancy button to activate this function. Please note, before enable this function, please set at least one HDD as redundant. (Main menu->Advanced->HDD Management). Please note this function is null if there is only one HDD.
- Snapshot: You can enable this function to snapshoot image when an alarm occurs.
- Record types: There are two types: regular, Alarm.
- Holiday: Highlight the button here, the holiday settings in General interface (Chapter 4.9.1) becomes activated.

Please highlight icon to select the corresponding function. After completing all the setups please click save button, system goes back to the previous menu.

At the bottom of the menu, there are color bars for your reference. Green color stands for regular recording and red color stands for alarm recording.

6			SCHEDULE				
Channel	1 Pre	Record 4 s	ec. Redundanc	y Snaps	hot		
Period	Mon 🔻	Record Type	Regular	Ala	arm		
Period 1	00:00	- 24: 00] 🗖				
Period 2	00:00	- 24: 00	ו סו				
Period 3	00:00	- 24: 00	٦ o				
Period 4	00:00	- 24: 00	í o				
Period 5	00:00	- 24: 00	í o				
Period 6	00:00	- 24: 00	í o				
R	legular		📕 Alarm				
3	3 6	9	12	15	18	21	24
l Defaul	t) (Cop	<u>w</u>			ОК) (Cancel	

Figure 4-46

4.9.4 RS232

RS232 interface is shown as below. There are five items. See Figure 4-47.

- Function: There are various devices for you to select.
 - Console is for you to use the COM or mini-end software to upgrade or debug the program.
 - \diamond The control keyboard is for you to control the device via the special keyboard.
 - ♦ Transparent COM (adapter) is to connect to the PC to transfer data directly.
 - \diamond Network keyboard is for you to use the special keyboard to control the device.
 - \diamond PTZ matrix is to connect to the peripheral matrix control.
- Baud rate: You can select proper baud rate.
- Data bit: You can select proper data bit. The value ranges from 5 to 8.
- Stop bit: There are three values: 1/1.5/2.
- Parity: there are five choices: none/odd/even/space/mark.

After completing all the setups please click save button, system goes back to the previous menu.

	RS232	
Stop Bits		
(Default		Save Cancel

Figure 4-47

4.9.5 Network

Here is for you to input network information. See Figure 4-48.

- IP Version: There are two options: IPv4 and IPv6. Right now, system supports these two IP address format and you can access via them.
- MAC address: The host in the LAN can get a unique MAC address. It is for you to access in the LAN. It is read-only.
- IP address: Here you can use up/down button (▲▼) or input the corresponding number to input IP address. Then you can set the corresponding subnet mask the default gateway.
- Subnet prefix: The input value ranges from 0 to 128. It is to mark a specified network MAC address. Usually it includes an organization of multiple-level.
- Default gateway: Here you can input the default gateway. Please note system needs to check the validity of all IPv6 addresses. The IP address and the default gateway shall be in the same IP section. That is to say, the specified length of the subnet prefix shall have the same string.
- DHCP: It is to auto search IP. When enable DHCP function, you can not modify IP/Subnet mask /Gateway. These values are from DHCP function. If you have not enabled DHCP function, IP/Subnet mask/Gateway display as zero. You need to disable DHCP function to view current IP information. Besides, when PPPoE is operating, you can not modify IP/Subnet mask /Gateway.
- TCP port: Default value is 37777. You can change if necessary.
- UDP port: Default value is 37778. You can change if necessary.
- HTTP port: Default value is 80.
- RTSP port: Default value is 554.

Important: System needs to reboot after you changed and saved any setup of the above four ports. Please make sure the port values here do not conflict.

- Max connection: system support maximal 20 users. 0 means there is no connection limit.
- Preferred DNS server: DNS server IP address.

- Alternate DNS server: DNS server alternate address.
- Transfer mode: Here you can select the priority between fluency/video qualities.
- LAN download: System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.

Important

For the IP address of IPv6 version, default gateway, preferred DNS and alternate DNS, the input value shall be 128-digit. It shall not be left in blank.

After completing all the setups please click save button, system goes back to the previous menu.

di	NETWORK		
IP Version IP Address	IPv4 ▼ 10 . 15 . 6 . 122 DHCP		
Subnet Mask	255 . 255 . 0 . 0		
Default Gateway	10 . 15 . 0 . 1		
TCP Port	37777 HTTP Port 80		
UDP Port	37778		
RTSP Port	554 MTU 1500		
Preferred DNS	8 . 8 . 8 . 8		
Alternate DNS	8 . 8 . 4 . 4		
Max Connection	128 LAN Download		
NETWORK SET	TING		
Default	Save Cancel		

Figure 4-48

4.9.5.1 Network Setting

Network setting interface is shown as in Figure 4-49. Please draw a circle to enable corresponding function and then double click current item to go to setup interface.

	NETWORK SETTING	
NTP DDNS EMAIL FTP ALARM CENTRE Ethernet Port2	time.windows.com : 60 No Available DDNS Setup MailServer : 25 Record FTP : 0.0.0 Private : 10.1.0.2 Ethernet Port2Setup	
Default		Save Cancel



4.9.5.2 NTP Setup

You need to install SNTP server (Such as Absolute Time Server) in your PC first. In Windows XP OS, you can use command "net start w32time" to boot up NTP service.

NTP setup interface is shown as in Figure 4-50.

- Host IP: Input your PC address.
- Port: This series DVR supports TCP transmission only. Port default value is 123.
- Update interval: minimum value is 1. Max value is 65535. (Unit: minute)
- Time zone: select your corresponding time zone here.
- Update period: You can input interval here.
- Manual update: It allows you to synchronize the time with the server manually.

Here is a sheet for your time zone setup.

City /Region Name	Time Zone
London	GMT+0
Berlin	GMT+1
Cairo	GMT+2
Moscow	GMT+3
New Deli	GMT+5
Bangkok	GMT+7
Beijing (Hong Kong)	GMT+8
Токуо	GMT+9
Sydney	GMT+10
Hawaii	GMT-10
Alaska	GMT-9
Pacific Time(P.T)	GMT-8
American Mountain Time(M.T)	GMT-7
American Central Time(C.T)	GMT-6
American Eastern Time(E.T)	GMT-5
Atlantic Time	GMT-4
Brazil	GMT-3
Middle Atlantic Time	GMT-2

t in the second	NTP
Server IP	time.windows.com
Port	123
Time Zone	GMT+08:00
Interval	60 min.
Default	OK Cancel (Manual Update)

Figure 4-50

4.9.5.3 DDNS

DDNS setup interface is shown as in Figure 4-51.

You need a PC of fixed IP in the internet and there is the DDNS software running in this PC. In other words, this PC is a DNS (domain name server).

In network DDNS, please select DDNS type and highlight enable item. Them please input your PPPoE name you get from you IPS and server IP (PC with DDNS). Click save button and then

reboot system.

Click save button, system prompts for rebooting to get all setup activated.

After rebooting, open IE and input the domain name.

Now you can open DDNSServer web search page.

6 5	DDN	NS Contraction of the second sec
DDNS Type Server IP	Quick DDNS www.quickddns.com) 🔲 Enable
Domain Mode	Default O Custom	Name
Domain Name	9002A92469F1	.quickddns.com
Email		Please input email address.
ŕ	ation email one month b	at is idle for more than one year. You before the reclaim if your email Test OK Cancel



Please note DDNS type includes: CN99 DDNS, NO-IP DDNS, Quick DDNS, and Dyndns DDNS. All the DDNS can be valid at the same time, you can select as you requirement.

Quick DDNS function shall work with special DDNS server and special Professional Surveillance Software (PSS).

Quick DDNS and Client-end Introduction

1) Background Introduction

Device IP is not fixed if you use ADSL to login the network. The DDNS function allows you to access the DVR via the registered domain name. Besides the general DDNS, the quick DDNS works with the device from the manufacturer so that it can add the extension function.

2) Function Introduction

The quick DDNS client has the same function as other DDNS client end. It realizes the bonding of the domain name and the IP address. Right now, current DDNS server is for our own devices only. You need to refresh the bonding relationship of the domain and the IP regularly. There is no user name, password or the ID registration on the server. At the same time, each device has a default domain name (Generated by MAC address) for your option. You can also use customized valid domain name (has not registered.).

3) Operation

Before you use our quick DDNS, you need to enable this service and set proper server address, port value and domain name.

- Server address: www.quickddns.com
- Port number: 80
- Domain name: There are two modes: Default domain name and customized domain name.

Except default domain name registration, you can also use customized domain name (You can input your self-defined domain name.). After successful registration, you can use domain name to login installed of the device IP.

• User name: It is optional. You can input your commonly used email address.

Important

- Do not register frequently. The interval between two registrations shall be more than 60 seconds. Too many registration requests may result in server attack.
- System may take back the domain name that is idle for one year. You can get a notification email before the cancel operation if your email address setup is OK.

4.9.5.4 Email

The email interface is shown as below. See Figure 4-52.

- SMTP server: Please input your email SMTP server IP here.
- Port: Please input corresponding port value here.
- User name: Please input the user name to login the sender email box.
- Password: Please input the corresponding password here.
- Sender: Please input sender email box here.
- Title: Please input email subject here. System support English character and Arabic number. Max 32-digit.
- Receiver: Please input receiver email address here. System max supports 3 email boxes.
- SSL enable: System supports SSL encryption box.
- Interval: The send interval ranges from 0 to 3600 seconds. 0 means there is no interval.
- Health email enable: Please check the box here to enable this function. This function allows the system to send out the test email to check the connection is OK or not.
- Interval: Please check the above box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here. Click the Test button, you can see the corresponding dialogue box to see the email connection is OK or not. See Figure 4-53.

Please note system will not send out the email immediately when the alarm occurs. When the alarm or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.

đ	EMAIL
SMTP Server User Name	MailServer Port 25 Password
Receiver Sender	
Subject	DVR ALERT
Event Interval Health Enable	120sec.
Interval	60 min.
Default	OK Cancel Test

Figure 4-52



Figure 4-53

4.9.5.5 FTP

You need to download or buy FTP service tool (such as Ser-U FTP SERVER) to establish FTP service.

Please install Ser-U FTP SERVER first. From "start" -> "program" -> Serv-U FTP Server -> Serv-U Administator. Now you can set user password and FTP folder. Please note you need to grant write right to FTP upload user. See Figure 4-54.

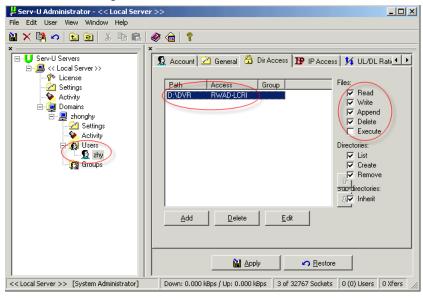


Figure 4-54

You can use a PC or FTP login tool to test setup is right or not.

For example, you can login user ZHY to <u>FTP://10.10.7.7UT</u> and then test it can modify or delete folder or not. See Figure 4-55.

Internet	Explorer		
? >	To log on to th	nis FTP server, type a user name and password.	
•	FTP server:	10.10.7.7	
	User name:		
	Password:		
	After you log	on, you can add this server to your Favorites and return to it easily	<i>.</i> .
	Log on and	nymously	
		Log On Cancel	

Figure 4-55

System also supports upload multiple DVRs to one FTP server. You can create multiple folders under this FTP.

In Figure 4-48, select FTP and then double click mouse. You can see the following interface. See Figure 4-56.

Please highlight the icon in front of Enable to activate FTP function.

Here you can input FTP server address, port and remote directory. When remote directory is null, system automatically create folders according to the IP, time and channel.

User name and password is the account information for you to login the FTP.

File length is upload file length. When setup is larger than the actual file length, system will upload the whole file. When setup here is smaller than the actual file length, system only uploads the set length and auto ignore the left section. When interval value is 0, system uploads all corresponding files.

After completed channel and weekday setup, you can set two periods for one each channel.

Click the Test button, you can see the corresponding dialogue box to see the FTP connection is OK or not. See Figure 4-57.

8	FTP
Server IP User Name Password Remote Directory Snapshot	0 . 0 . 0 . 0 Port 21 Anonymous File Length 0 M 2 sec. ►
Channel Weekday Time Period 1 Time Period 2	1 • Tue • 00 :00 -24 :00 00 :00 -24 :00
Default	OK Cancel Test

Figure 4-56



Figure 4-57

4.9.5.6 Alarm center

Interface is pre-reserved for the users to develop this function. See Figure 4-58.

ð (ALARM CENTRE
Protocol T	ype Private
Server IP	10 . 1 . 0 . 2
Port	1
Selfreport	Time
Everyday	▼ at 08:00 ▼
Default	OK Cancel

Figure 4-58

4.9.5.7 Ethernet Port 2

Here you can set Ethernet port 2 information. See Figure 4-59.

	Eth	e	net P	ort	2					
Ethernet Card	eth0:	po	be		-					
IP Address	10		0		0		111			
Subnet Mask	255		255		0		0			
Default Gateway	10		0		0		1			
Default				0	К	\supset		Canco	el)

Figure 4-59

4.9.6 Alarm

You can follow the steps listed below to set.

- a) You can connect the external alarm port from the rear panel of the device. Usually the vehicle left-turn, right-turn, brake and door signal information and etc can be input to the device via the alarm input device.
- b) In the main menu, from Setting to Alarm, you can see alarm setup interface. See Figure 4-60.
- c) This series product support 6-channel level alarm information. You can set its actual alarm name such as left-turn, right-turn on the Alarm Name item. Check the Overlay button, you can overlay corresponding alarm information on the record file.
- d) If the alarm signal is 12V/24V voltage, the trigger type shall be high valid. If the alarm signal is ground signal, the trigger type shall be low valid.
- e) The normal open means the alarm signal is usually disconnect, system can generate an alarm when the alarm signal closed. The normal close means the alarm signal is usually connect, system can generate an alarm when the alarm signal disconnected.

- f) You need to set for each alarm channel on the Alarm in item if the device has connected several alarm channels.
- Alarm in: Here is for you to select channel number.
- Event type: There are two types. Local input/network input alarm.
 - ♦ Local input alarm: The alarm signal system detects from the alarm input port.
 - ♦ Network input alarm: It is the alarm signal from the network.
- Enable: Please you need to highlight this button to enable current function.
- Type: Normal open or normal close.
- Trigger: Here is for you to set activation mode. There are two options: High/low.
- Alarm name: You can input customized name here.
- Overlay: Please highlight the box here to enable this function. It can overlay alarm information on the video screen when an alarm occurred.
- PTZ activation: When an alarm occurred, system can activate the PTZ operation such as preset x.
- Anti-dither: Here you can set anti-dither time. The value ranges from 5 to 600s. The anti-dither time refers to the alarm signal lasts time. It can be seem as the alarm signal activation stays such as the buzzer, tour, PTZ activation, snapshot, channel record. The stay time here does not include the latch time. During the alarm process, the alarm signal can begin an anti-dither time if system detects the local alarm again. The screen prompt, alarm upload, email and etc will not be activated. For example, if you set the anti-dither time as 10 second, you can see the each activation may last 10s if the local alarm is activated. During the process, if system detects another local alarm signal at the fifth second, the buzzer, tour, PTZ activation, snapshot, record channel will begin another 10s while the screen prompt, alarm signal, it can generate an alarm since the anti-dither time is out.
- Alarm output: The number here is the device alarm output port. You can select the corresponding ports(s) so that system can activate the corresponding alarm device(s) when an alarm occurred.
- Latch: When the anti-dither time ended, the channel alarm you select in the alarm output may last the specified period. The value ranges from 1 to 300 seconds. This function is not for other alarm activation operations. The latch is still valid even you disable the alarm event function directly.
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
- Alarm upload: System can upload the alarm signal to the network (including alarm centre and the WEB) if you enabled current function. System only uploads the alarm channel status. You can go to the WEB and then go to the Alarm interface to set alarm event and alarm operation. Please go to the Network interface to set alarm centre information.
- Send email: System can send out the alarm signal via the email to alert you when alarm occurs. Once you enable the snap function, system can also send out an image as the attachment. Please go to the Main Menu->Setting ->Network->Email interface to set.
- Record channel: you can select proper channel to record alarm video (Multiple choices).
 - You need to set alarm record mode as Schedule in Record interface (Main Menu->Advanced->Record). Please note the manual record has the highest priority.
 System record all the time no matter there is an alarm or not if you select Manual mode.

- Now you can go to the Schedule interface (Main Menu->Setting->Schedule) to set the record type, corresponding channel number, week and date. You can select the record type: Regular/Alarm.
- Now you can go to the Encode interface to select the alarm record and set the encode parameter (Main Menu->Setting->Encode).
- Finally, you can set the alarm input as the local alarm and then select the record channel. The select channel begins alarm record when an alarm occurred. Please note system begins the alarm record instead of the MD record if the local alarm and MD event occurred at the same time.
- Snapshot: You can enable this function to snapshoot image when an alarm occurs.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.

Please highlight icon to select the corresponding function. After setting all the setups please click save button, system goes back to the previous menu.

9		ALARM					ALARM		
Event Type Enable Trigger	Local Alarm 🔻	Alarm In Type	1 Normal Open]	Event Type Enable	Net Alarm 🔻	Alarm In		
Alarm name	Left	Overlay							
		Anti-dither	5	sec.					
Alarm Out	12	Latch	10	sec.	Alarm Out	12	Latch	10	sec.
Show Message		Send Email			Show Message	1234	Send Email		
PTZ Activation	Setup	Delay	10	sec.	PTZ Activation	Setup	Delay	10	sec.
Snapshot	1234				Snapshot Buzzer	1234			
Default C	ору		Save	Cancel	Default C	ору		Save	Cance

Figure 4-60

	PTZ Activation
CAM 1 CAM 3	None Image: O CAM 2 None Image: O None Image: O CAM 4 None Image: O
	OK Cancel

Figure 4-61

4.9.7 Detect

Go to Detect Menu

In the main menu, from Setting to Detect, you can see an interface shown as in Figure 4-62. There are two detection types: video loss/tampering.

• You can see video loss icon if current channel has enabled video loss alarm.

4.9.7.1 Video Loss

You can follow the steps listed below to set video loss alarm.

a) From Main menu->Setting->Detect to set video loss item and enable this function.

b) Select video loss from the dropdown list and select video loss channel.

Video loss is shown as below. See Figure 4-62.

- Event type: From the dropdown list you can select video loss type.
- Channel: Select a channel from the dropdown list to set video loss function.
- Enable: Check the box here to enable video loss function.
- Alarm output: when an alarm occurs, system enables peripheral alarm devices.
- Latch: when video loss is complete, system auto delays detecting for a specified time. The value ranges from 1-300(Unit: second)
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
- Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
- Send email: System can send out email to alert you when an alarm occurs.
- Record channel: Select the channel to activate recording function once an alarm occurred. Please make sure you have set MD record in encode interface(Main Menu->Setting->Schedule) and schedule record in manual record interface(Main Menu->Advanced->Manual Record)
- PTZ activation: Here you can set PTZ movement when an alarm occurs. System can go to a preset, when there is an alarm. Click "select" button, you can see an interface is shown as in Figure 4-63.
- Record Delay: System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
- Snapshot: You can enable this function to snapshot image when video loss alarm occurs.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.

Please highlight icon to select the corresponding function. After all the setups please click save button, system goes back to the previous menu.

Tips:

You can enable preset/tour/pattern activation operation when video loss occurs.

8		DETECT		
Event Type Enable	Video Loss ▼	Channel	[1]
Alarm Out Show Message Record Channe	12 Alarm Upload	Latch	[10]sec.
PTZ Activation Snapshot Buzzer	Setup 1234	Delay	10]sec.
Default C	Сору		Save	Cancel

Figure 4-62

	PTZ Activation
CAM 1 CAM 3	None • 0 CAM 2 None • 0 None • 0 CAM 4 None • 0
	OK Cancel

Figure 4-63

4.9.7.2 Tampering

When someone viciously masks the lens, or the output video is in one-color due to the environments light change, the system can alert you to guarantee video continuity. Tampering interface is shown as in Figure 4-64. You can enable alarm output channel and then enable show message function. You can refer to chapter 4.9.7.1Video Loss for detailed information.

Note:

In Detect interface, copy/paste function is only valid for the same type, which means you can not copy a channel setup in video loss mode to tampering mode.

8		DETECT		-
Event Type Enable	Tampering ▼	Channel Sensitivity	1 - 3 -)
Record Channel			[10)sec.
PTZ Activation Snapshot Buzzer	(Setup) 1234	Delay	[10	sec.
(Default) C	opy)		Save	Cancel

Figure 4-64

4.9.8 PTZ

Note: All the operations here are based on PELCOD protocol. For other protocols, there might be a little difference.

Cable Connection

Please follow the procedures below to go on cable connection

- Connect the dome RS485 port to DVR 485 port.
- Connect dome video output cable to DVR video input port.
- Connect power adapter to the dome.

PTZ Setup

Note: The camera video should be in the current screen. Before setup, please check the following connections are right:

• PTZ and decoder connection is right. Decoder address setup is right.

• Decoder A (B) line connects with DVR A (B) line.

Boot up the DVR, input user name and password.

In the main menu, click setting, and then click Pan/Tilt Control button. The interface is shown as in Figure 4-65. Here you can set the following items:

- Channel: Select the current camera channel.
- Protocol: Select corresponding PTZ protocol(such as PELCOD)
- Address: Default address is 1.
- Baud rate: Select corresponding baud rate. Default value is 9600.
- Data bit: Select corresponding data bits. Default value is 8.
- Stop bit: Select corresponding stop bits. Default value is 1.
- Parity: There are three options: odd/even/none. Default setup is none.

1	PTZ
Channel	1
	NONE
Address	1
Baudrate	9600 🔽
Data Bits	8 🔻
Stop Bits	1 7
Parity	None 🔻
Default	Copy Save Cancel
Delauli	

Figure 4-65

After completing all the setting please click save button.

In one window display mode, right click mouse (click "Fn" Button in the front panel or click "Fn" key in the remote control).

Click Pan/Tilt/Zoom, the interface is shown as below. See Figure 4-66.

Here you can set the following items:

- Step: value ranges fro 1 to 8.
- Zoom
- Focus
- Iris

Please click icon and with a digust zoom, focus and iris.



Figure 4-66

In Figure 4-66, please click direction arrows to adjust PTZ position. There are total 8 direction arrows.



Figure 4-67

Here is a sheet for you reference.

Name	Function	function	Shortcut	Function	function	Shortcut
	key		key	key		Key
Zoom		Wide	ŀ	e	Far	*
Focus	0	Near	◀	•	Far	►
Iris		Close	◀	(7)	Open	► II

Note

For HD-CVI protocol, you can use RS485 port to control the HDCVI camera. On the preview interface, right click mouse and then select PTZ. Click the 🛃 of the Iris button, you can see the corresponding menu.

4.9.9 Display

Display setup interface is shown as below. See Figure 4-68.

- Transparency: Here is for you to adjust transparency. The value ranges from 128 to 255.
- Channel name: Here is for you to set camera channel name.
- Time display: You can select to display time or not when system is playback.
- Car number display: You can select to display plate number or not when system is playback.
- GPS display: System displays GPS information in the screen for your reference. **Please note** only the unit of GPS module supports this function.
- Resolution: Please note system needs to reboot to active current setup.
- Image enhance: Check the box; you can optimize the margin of the preview video.
- Live: It is to set volume when you are previewing.
- Talk: It is to set volume when you are in bidirectional talk process.

Please highlight icon 🔳 to select the corresponding function.

After completing all the setups please click save button, system goes back to the previous menu.

		DISPLAY		
Transparency Channel Display Resolution Zero-Ch Encode Volume Control_	200 800×600 ▼ Setup	Channel Name GPS Display Image Enhance	Modify	
Live		60		
Talk	e	60		
Default			Save (Cancel



In Figure 4-68, click modify button after channel. You can see an interface shown as in Figure 4-69. Please note all your modification here applies to local end only. You need to refresh web or client-end to get the latest channel name. System max support 25-digital character.

	Chann	el Name	
CAM 1 CAM 3	CAM 1 CAM 3	CAM 2 CAM 4	CAM 2 CAM 4
	~		
Default)	Save	Cancel



- Zero-Channel Encoding (Multiple-Preview) : Click Setup button, you can go to the following interface. See Figure 4-70. Here you can enable and set zero-channel encoding function so that you can view several video sources at one channel.
 - Enable: This function is disabled by default. Check the box here to enable this function so that you can control the zero-channel encoding function at the WEB.
 - ♦ Compression: System default setup is H.264. You can set according to device capability.
 - Resolution: System supports D1/HD1/CIF/2CIF/QCIF. The resolution value may vary due to different device capabilities. Please select from the dropdown list.
 - ♦ Frame rate: System supports 1-25(30). The frame rate value may vary due to different device capabilities. Please select from the dropdown list.

- Bit Rate: System supports 640/768/896/1024. The bit rate value may vary due to different device capabilities and frame rate setups. Please select from the dropdown list.
- Save: Click the Save button to save current setup. If this function is disabled, you can not operate zero-channel encoding function at the WEB, the video is black or null even you operate when the function is disabled. After you enabled this function, login the Web and you can select zero-channel encoding mode at the right corner of the interface

⊞	. Select a	mode; you o	can	view the loca	al preview vide
8		Zero-Ch	Enc	ode	
Enable	I.	•			
Compre	ession	H.264	┓		
Resolu	tion	CIF	Ī		
Frame	Rate(FPS)	25			
Bit Rate	e(Kb/S)	1024	•		
		Overlay			
Defa	ault			Save	Cancel

Figure 4-70

4.9.10 Default



Please think twice before you use the default function!

Click default icon, system pops up a dialogue box. You can highlight 🔲 to restore default factory setup.

- Select all
- General
- Encode
- Schedule
- RS232
- Network
- Alarm
- Detect
- PTZ
- Display
- Channel name

Please highlight icon to select the corresponding function. See Figure 4-71. After all the setups please click OK button, system goes back to the previous menu.

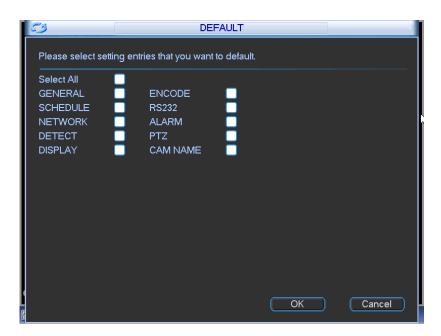


Figure 4-71

Warning!

System menu color, language, video format, user account cannot restore default setup after default operation!

4.10 Advanced

Double click advanced icon in the main window, the interface is shown as below. See Figure 4-72. There are total five items: HDD, alarm output, record, account, and import/export.

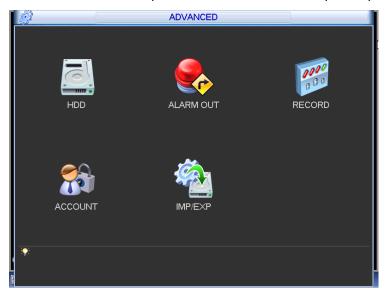


Figure 4-72

4.10.1 HDD Management

Here is for you to view and implement hard disk management. See Figure 4-73. You can see current HDD type, status, capacity and record time. When HDD is working properly, system is shown as O. When HDD error occurred, system is shown as X.

- Alarm set: Click alarm set button, the interface is shown as below. See Figure 4-74. (This interface is just like the abnormality setup). Please refer to chapter 4.8.6 for detailed information.
- HDD operation: You can select a HDD mode from the dropdown list such as read-only or you can erase all data in the HDD. Please note system needs to reboot to get all the modification activated.
- HDD detect: You can select HDD detect type (quick/global) to view the HDD status.
- Record time: It is to display record start time and end time of current HDD.

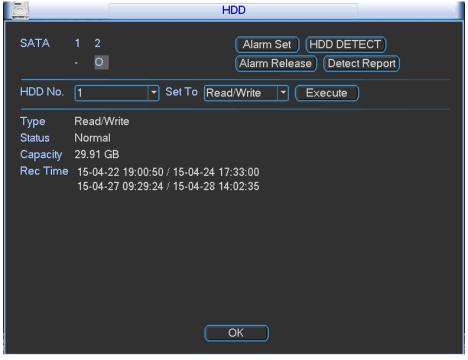


Figure 4-73

	A	BNORMAL		
Event Type Enable	HDD Error			
Alarm Out	12 Alarm Upload	Latch Send Email	[10)sec.
Buzzer				
			Save) (Cancel)

Figure 4-74

4.10.2 Alarm Output

Here is for you to set proper alarm output.

Please highlight icon 📕 to select the corresponding alarm output.

After all the setups please click OK button, system goes back to the previous menu. See Figure 4-75.

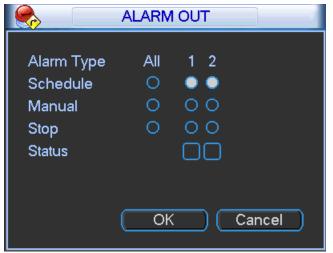


Figure 4-75

4.10.3 Manual Record

Note:

You need to have proper rights to implement the following operations. Please make sure the HDD has been properly installed.

4.10.3.1 Manual record menu

Right click mouse or in the main menu, Advanced->Manual Record.

Manual record menu is shown as in Figure 4-76.

4.10.3.2 Basic operation

There are two streams: main stream/extra stream. There are three statuses: schedule/manual/stop. Please highlight icon"o" to select corresponding channel.

- Manual: The highest priority. After manual setup, all selected channels will begin ordinary recording.
- Schedule: Channel records as you have set in recording setup (Main Menu->Setting->Schedule)
- Stop: All channels stop recording.

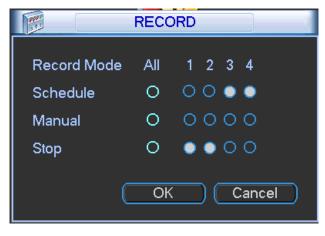


Figure 4-76

4.10.3.3 Enable/disable record

Please check current channel status: "o" means it is not in recording status, "•" means it is in recording status.

You can use mouse or direction key to highlight channel number. See Figure 4-77.





4.10.3.4 Enable all channel recording

Highlight \circ below All, you can enable all channel recording.

• All channel schedule record

Please highlight "ALL" after "Schedule". See Figure 4-78.

When system is in schedule recording, all channels will record as you have previously set (Main menu->Setting->Schedule).

The corresponding indication light in front panel will turn on.



Figure 4-78

• All channel manual record

Please highlight "ALL" after "Manual." See Figure 4-79.

When system is in manual recording, all scheduled set up you have set in will be null ((Main menu->Setting->Schedule)).

You can see indication light in front panel turns on, system begins manual record now.

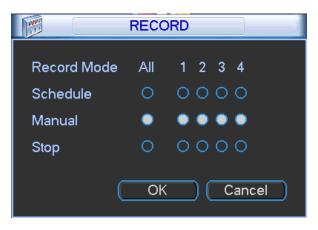


Figure 4-79

4.10.3.5 Stop all channel recording

Please highlight "ALL" after "Stop". See Figure 4-80.

System stops all channel recording no matter what mode you have set in the menu (Main menu->Setting->Schedule)



Figure 4-80

4.10.4 Account

Here is for you to implement account management. See Figure 4-81. Here you can:

- Add new user
- Modify user
- Add group
- Modify group
- Modify password.

For account management please note:

- For the user account name and the user group, the string max length is 6-byte. The backspace in front of or at the back of the string is invalid. There can be backspace in the middle. The string includes the valid character, letter, number, underline, subtraction sign, and dot.
- System account adopts two-level management: group and user. No limit to group or user amount.
- For group or user management, there are two levels: admin and user.
- The user name and group name can consist of eight bytes. One name can only be used once. There are three default administrator users: admin/888888 and hidden user "default".

- Hidden user "default" is for system interior use only and can not be deleted. When there is no login user, hidden user "default" automatically login. You can set some rights such as monitor for this user so that you can view some channel view without login.
- One user should belong to one group. User right can not exceed group right.

• About reusable function: this function allows multiple users use the same account to login.

After all the setups please click save button, system goes back to the previous menu.

8			A	CCOUNT	
Γ					
	3	User	Group	Status	
		888888	admin	Login Local	
	2	admin	admin	Login Net	
	3	default	user	Default User	
T					
T					
C	Add U				
	Add Gr	oup) (Modify C	Group Modify	Password	
6					

Figure 4-81

4.10.4.1 Modify Password

Click password button, the interface is shown as in Figure 4-82.

Here you can modify account password.

Please select the account from the dropdown list, input the old password and then input the new password twice. Click the Save button to confirm current modification.

For the users of user account right, it can modify password of other users.

	Modify Password
User Old Password New Password Confirm	888888 -
	Save Cancel

Figure 4-82

4.10.4.2 Add/Modify Group

Click add group button, the interface is shown as below. See Figure 4-83.

Here you can input group name and then input some memo information if necessary.

There are total 40 rights such as control panel, shut down, real-time monitor, playback, record, record file backup, PTZ, user account, system information view, alarm input/output setup, system setup, log view, clear log, upgrade system, control device and etc.

The modify group interface is similar to the Figure 4-83.

8	Add Group	
Nieme (
Name (
Memo (
40	Authority	•
1	Control Panel	
2 3	Shutdown the Device	=
3	Monitor	
4	Monitor_CH01	
5	Monitor_CH02	
6	Monitor_CH03	
7	Monitor_CH04	
8	🗌 Playback	
9	Playback_CH01	
10	Playback_CH02	<u> </u>
🛃 🛃 😽	e Up 🙌 Page Down 🕫 Enable/Disable Authority	
	Save Cancel	

Figure 4-83

4.10.4.3 Add/Modify User

Click add user button, the interface is shown as in Figure 4-84.

Please input the user name, password, select the group it belongs to from the dropdown list.

Then you can check the corresponding rights for current user.

For convenient user management, usually we recommend the general user right is lower than the admin account.

The modify user interface is similar to Figure 4-84.

8	Add User	
User Password Memo	Reuseable Confirm	
Group	admin	
2 3 4 5	Authority Control Panel Shutdown the Device Monitor Monitor_CH01 Monitor_CH02 Monitor_CH03 Monitor_CH04	
14 Page L	Jp ▶! Page Down দր Enable/Disable Authority Save Cancel	

Figure 4-84

4.10.5 Import/Export

The import/export interface is shown as below. See Figure 4-85.

This function allows you to copy current system configuration to other devices. It also supports import, create new folder, and delete folder and etc function.

A		IMP/EXP			
Device Name Total Space	sda1(USB DISK) ▼ 1.86 GB	Refresh Free Space	1.35 GB		
Address	1				
Name		Sizo	э Туре	Delete	^
) 1882 📂 🔁			Folder	×	
) 6881			Folder	×	
New Folde	r Format (Import Expo	ort		

Figure 4-85

4.11 Backup

DVR supports USB burner, flash disk, portable HDD, eSATA HDD (Need external power supplying and does not support hot swap). Here we introduce USB backup. You can refer to Chapter 5 Web Operation for network download backup operation.

4.11.1 Detect Device

Click backup button, you can see an interface is shown as in Figure 4-86. Here is for you to view device information. You can view backup device name and its total space and free space.

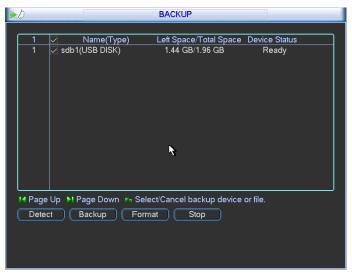


Figure 4-86

4.11.2 Backup

Select backup device and then set channel, file start time and end time.

Click add button, system begins search. All matched files are listed below. System

-	-	1		Backu	р				_
Selecte	d Devi	ce Dev(l	JSB DISK)				•		
Туре		All	•	Cha	nnel	1		-	
Start Tin	ne	0 2	006 - 12	- 01	00:	00:	00		Remove
End Tin	ne	0 2	007 - 03	- 08	13 :	18 :	55	T) (Add
1	СНТ	ype Sta	art Time	En	d Tin	ne	Size	(KB)	
			6 14:45:50 6 14:46:01						

automatically calculates the capacity needed and remained. See Figure 4-87.



System only backup files with a $\sqrt{}$ before channel name. You can use AUX button to check or cancel file.

Click backup button, you can backup selected files. There is a process bar for you reference. See Figure 4-88. Click backup button, system begins burning. At the same time, the backup button becomes stop button. You can view the remaining time and process bar at the left bottom.

-	Backup
Selected Dev	ice Dev(USB DISK)
Туре	All Channel 1
Start Time	3 2006 - 12 - 01 00 : 00 : 00 Remove
End Time	🚯 2007 - 03 - 08 13 : 18 : 55 Add
14 Page Up	▶! Page Down F= Select/Cancel backup device or fi
	Remaining time 0:4:26 Stop

Figure 4-88

When the system completes backup, you can see a dialogue box prompting successful backup.

The file name format usually is: SN_CH+channel number+Time. In the file name, the YDM format is Y+M+D+H+M+S. File extension name is .dav.

Tips:

During backup process, you can click ESC to exit current interface for other operation. The system will not terminate backup process.

Note:

When you click stop button during the burning process, the stop function becomes activated immediately. For example, if there are ten files, when you click stop system just backup five files, system only save the previous 5 files in the device (But you can view ten file names).

4.12 Shutdown

Double click shutdown button, system pops up a dialogue box for you to select. See Figure 4-89.

- Logout menu user: log out menu. You need to input password when you login the next time.
- Restart application: reboot device.
- Shutdown: system shuts down and turns off power.
- Restart system: system begins rebooting.
- Switch user: you can use another account to login.

If you shut down the device, there is a process bar for your reference, system waits for 3 seconds and then shut down (You can not cancel).

Please note, sometimes you need to input the proper password to shut down the device.



Figure 4-89

5 WEB OPERATION

There might be slightly difference in the interface due to different series.

5.1 Network Connection

Before web operation, please check the following items:

- Network connection is right
- DVR and PC network setup is right. Please refer to network setup(Setup ->Network)
- Use order ping ***.***.***(* DVR default IP address is 192.168.1.108) to check connection is OK or not. Usually the return TTL value should be less than 255.
- Open the IE and then input DVR IP address.
- System can automatically download latest web control and the new version can overwrite the previous one.
- If you want to un-install the web control, please run *uninstall webrec3.0.bat*. Or you can go to C:\Program Files\webrec to remove single folder. Please note, before you un-install, please close all web pages, otherwise the un-installation might result in error.
- Current series product supports IE and Maxthon browser only.

5.2 Login

Open IE and input DVR address in the address column. For example, if your DVR IP is 10.10.3.16, then please input http:// 10.10.3.16 in IE address column. See Figure 5-1.

🏉 Blank Page - Windows Internet Explore	er			
🕒 💭 👻 🙋 about:blank		► 6+ × haiti	[e]+]	-
n 🔁 -				Input your IP
🚖 🏟 🍘 Blank Page		₩ • □ · ● •	Page - O Tools - *	address here.
			<u></u>	address here.
			<u></u>	
		Internet	🔍 100% 🔹 🦷	

Figure 5-1

System pops up warning information to ask you whether install webrec.cab control or not. Please click yes button.

If you can't download the ActiveX file, please modify your settings as follows. See Figure 5-2.

Internet Options	Security Settings - Internet Zone
General Security Privacy Content Connections Programs Advanced	Settings
Select a zone to view or change security settings.	O Disable
	Download signed ActiveX controls (not secure) Disable
Internet Local intranet Trusted sites	Enable (not secure) Prompt (recommended)
Internet This zone is for Internet websites, except those listed in trusted and restricted zones.	Download unsigned ActiveX controls (not secure) Disable (recommended) Enable (not secure) Prompt
Security level for this zone Allowed levels for this zone: Medium to High Medium-high Appropriate for most websites	 Initialize and script ActiveX controls not marked as safe for su Disable (recommended) Enable (not secure) Prompt
Prompts before downloading potentially unsafe content Unsigned ActiveX controls will not be downloaded	Run ActiveX controls and plug-ins doministrator approved Takes effect after you restart Internet Explorer
Qustom level Default level Reset all zones to default level	Reset custom settings Reset to: Medium-high (default)
OK Cancel Apply	OK Cancel

Figure 5-2

After installation, the interface is shown as below. See Figure 5-3.

Please input your user name and password.

Default factory name is **admin** and password is **admin**.

Then you can select the login mode: LAN and WAN.

Note: For security reasons, please modify your password after you first login.

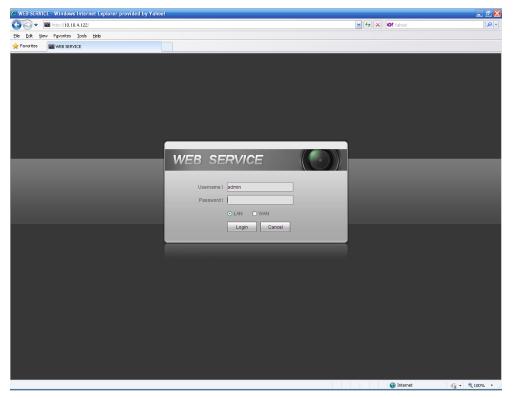
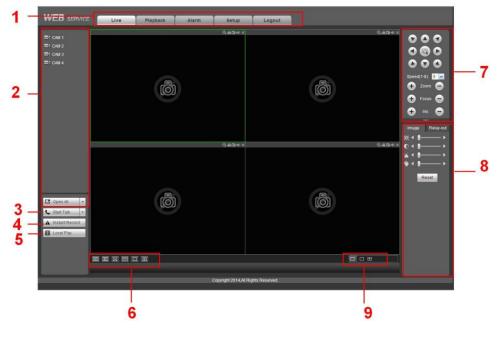


Figure 5-3

5.3 LAN Mode

For the LAN mode, after you logged in, you can see the main window. See Figure 5-4.





This main window can be divided into the following sections.

- Section 1: there are five function buttons: Live (chapter 5.4), setup (chapter 5.9), search (chapter 5.10), alarm (chapter 5.11), and logout (chapter 5.12).
- Section 2: There are channel number and one button: Start all. Start all button is to enable/disable all-channel real-time monitor. Click it the button becomes yellow. See Figure 5-5.





Please refer to Figure 5-6 for main stream and extra stream switch information.

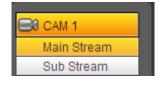


Figure 5-6

• Section 3: Start dialogue button.

You can click this button to enable audio talk. Click 【▼】 to select bidirectional talk mode. There are four options: DEFAULT, G711a, G711u and PCM. After you enable the bidirectional talk, the Start talk button becomes End Talk button and it becomes yellow. See Figure 5-7.

Please note, the audio input port from the device to the client-end is using the first channel audio input port. During the bidirectional talk process, system will not encode the audio data from the 1-channel.

C.	Start Talk	
A	DEFAULT	_
	G711a	
8	PCM	
_	G711u	

Figure 5-7

• Section 4: Instant record button. Click it, the button becomes yellow and system begins manual record. See Figure 5-8. Click it again, system restores previous record mode..



Figure 5-8

• Section 5: Local play button.

The Web can playback the saved (Extension name is dav) files in the PC-end.

Click local play button, system pops up the following interface for you to select local play file. See Figure 5-9.

Open	? 🛛
Look jn: Desktop	- 🖬 📩 🖬 -
My Documents My Computer My Network Places Access IBM ACC Double-Click to Start EarthLink Internet 30 Days F	Image: Second
[<]	
File name: Files of type: Record files (*.*)	 ↓ Cancel

Figure 5-9

- Section 6: From the left to the right, you can see video quality/fluency/ full screen/vertical-sync/1-window/4-window. You can set video fluency and real-time feature priority.
- Section 7: PTZ operation panel. Please refer to chapter 5.5 for detailed information.
- Section 8: Image setup and alarm setup. Please refer to chapter 5.6 for detailed information.
- Section 9: It is to display several channels at one window. Please refer to chapter 5.7 for detailed information.

5.4 Real-time Monitor

In section 2, left click the channel name you want to view, you can see the corresponding video in current window.

On the top left corner, you can view device IP(10.10.6.129), channel number(1), network monitor bit stream(2466Kbps) and stream type (M=main stream. S=Sub stream). See Figure 5-10.

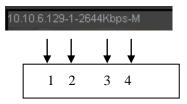


Figure 5-10

On the top right corer, there are six unction buttons. See Figure 5-11.

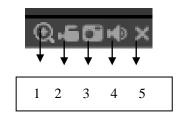


Figure 5-11

- 1: Digital zoom: Click this button and then left drag the mouse in the zone to zoom in. right click mouse system restores original status.
- 2: Local record. When you click local record button, the system begins recording and this button becomes highlighted. You can go to system folder RecordDownload to view the recorded file.
- 3: Snapshot picture. You can snapshot important video. All images are memorized in system client folder PictureDownload (default).
- 4: Audio :Turn on or off audio.(It has no relationship with system audio setup)
- 5: Close video.

5.5 PTZ

Before PTZ operation, please make sure you have properly set PTZ protocol. (Please refer to chapter 5.9.5.7).

There are eight direction keys. In the middle of the eight direction keys, there is a 3D intelligent positioning key.

Click 3D intelligent positioning key, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size. It can realize PTZ automatically.

Please refer to the following sheet for PTZ setup information.

Parameter	Function			
Scan	Select Scan from the dropdown list.			
	• Click Set button, you can set scan left and right limit.			
	• Use direction buttons to move the camera to you desired location			
	and then click left limit button. Then move the camera again and			
	then click right limit button to set a right limit.			
Preset	Select Preset from the dropdown list.			
	 Turn the camera to the corresponding position and Input the 			
	preset value. Click Add button to add a preset,.			

Parameter	Function			
Tour	 Select Tour from the dropdown list. 			
	 Input preset value in the column. Click Add preset button, you 			
	have added one preset in the tour.			
	• Repeat the above procedures you can add more presets in one			
	tour.			
	• Or you can click delete preset button to remove one preset from			
	the tour.			
Pattern	 Select Pattern from the dropdown list. 			
	• You can input pattern value and then click Start button to begin			
	PTZ movement such as zoom, focus, iris, direction and etc. Then			
	you can click Add button to set one pattern.			
Aux	 Please input the corresponding aux value here. 			
	 You can select one option and then click AUX on or AUX off 			
	button.			
Light and wiper	You can turn on or turn off the light/wiper.			

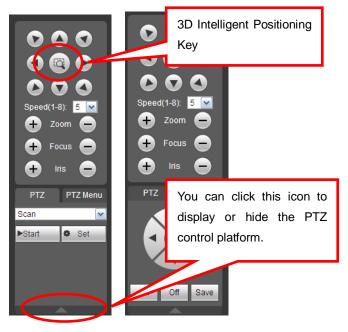


Figure 5-12

5.6 Image/Relay-out

Select one monitor channel video and then click Image button in section 8, the interface is shown as Figure 5-13.

5.6.1 Image

Here you can adjust its brightness, contrast, hue and saturation. (Current channel border becomes green).

Or you can click Reset button to restore system default setup.

Image Relay-out
∦∢ (—— ►
● ◀ ● ▶
≦ ∢ 8 ——►
♥ ◀ ₿───►
Reset

Figure 5-13

5.6.2 Relay output

Here you can select alarm output channel, the select channel alarm mode becomes manual when the alarm is enabled. See Figure 5-14. It is corresponding to the alarm output 1/2 of the rear panel. Please refer to chapter 3.6.1 for detailed information.



Figure 5-14

5.7 Zero-channel encoding

System allows you to preview several channels on one channel. It supports 1/4-window. See Figure 5-15.

Please note only the product of this icon supports current function.





5.8 WAN Login

In WAN mode, after you logged in, the interface is shown as below. See Figure 5-16.



Figure 5-16

Please refer to the following contents for LAN and WAN login difference.

1) In the WAN mode, system opens the main stream of the first channel to monitor by default. The open/close button on the left pane is null.

2) You can select different channel and different monitor mode at the bottom of the interface.

3) Multiple-channel monitor, system adopts extra stream to monitor by default. Double click one channel, system switches to single channel and system uses main stream to monitor. You can view there are two icons at the left top corner of the channel number for you reference. M stands for main stream. S stands for sub stream (extra stream).

4) If you login via the WAN mode, system does not support alarm activation to open the video function in the Alarm setup interface.

Important

- For multiple-channel monitor mode, system adopts extra stream to monitor by default. You can not modify manually. All channels are trying to synchronize. Please note the synchronization effect still depends on your network environments.
- For bandwidth consideration, system can not support monitor and playback at the same time. System auto closes monitor or playback interface when you are searching setup in the configuration interface. It is to enhance search speed.

5.9 Setup

5.9.1 Channel

5.9.1.1 Conditions

Here you can view device property information. The setups become valid immediately after you set. See Figure 5-17.

WEB SERVICE	Live	Playback	Alarm	Setup	Log	out			
Channel Conditions Video&Audio Channel Name Network	Conditions		2013-09-16 10:	20-04		0: 00 - 24: 0	0	00:00 - 24:00	
Event Storage System Information VEHICLE				Ci	ntness 🔅 - ontrast 🛈 - uration 쑵 - Gain 🗖 -	0	50 50 50 50		-50 -50 -50
	CAM 1					Low Customized 1	✓✓	Low Customized 1	▼
		Custon	nized Defa	ult Car	icel				

Figure 5-17

Parameter	Function		
Channel	Please select a channel from the dropdown list.		
Period	It divides one day (24 hours) to two periods. You can set different hue, brightness, and contrast for different periods.		
Hue	It is to adjust monitor video brightness and darkness level. The default value is 50.		
	The bigger the value is, the large the contrast between the bright and dark section is and vice versa.		
Brightness	It is to adjust monitor window brightness. The default value is 50. The larger the number is , the bright 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 value ranges from 0 to 100.The recommended value ranges from 40 to 60.		
Contrast	It is 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 bright is OK but the contrast is not proper. 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 exposure .The recommended value ranges from 40 to 60.		
Saturation	It is to adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50.		
	The larger the number is, 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		

	attractive 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 smaller the value is, the low the noise is. But the brightness is also too low in the dark environments. It can enhance the video brightness if the value is high. But the video noise may become too clear.
White level	It is to enhance video effect.
Color mode	It includes several modes such as standard, color. You can select corresponding color mode here, you can see hue, brightness, and contrast and etc will adjust accordingly.

5.9.1.2 Video and Audio

5.9.1.2.1 Encode

The encode interface is shown as below. See Figure 5-18.

WEB SERVICE	Live	ayback Alarm	Setup	Logout		
Channel	Encode	Snapshot	Overlay	Zero-Ch Encode	Preview Overlay	Path
 Conditions Video&Audio 	Channel Main Stream	1	▼ Sub Str	eam		
> Channel Name Network	Code-Stream Type Compression		▼ Vide	o Enable npression H.26	64 v	
Event Storage System	Resolution Frame Rate(FPS) Bit Rate Type	30	✓ Fran	olution CIF ne Rate(FPS) 7 Rate Type CBF	▼ ▼ ₹	
 Information Vehicle 	Bit Rate Reference Bit Rate	2048 2048-4096Kb/S	▼ Kb/S Bit F		₩ Kb/S	
	Audio Enable Audio Encode	G711a		o Enable o Encode G71	1a 💌	
	Watermark Enable		Wat	ermark String		
		Сору	Save Refr	esh Default		

Figure 5-18

Parameter	Function
Channel	Please select a channel from the dropdown list.
Video enable	Check the box here to enable extra stream video. This item is enabled by default.
Code stream type	It includes main stream, motion stream and alarm stream. You can select different encode frame rates form different recorded events.
	System supports active control frame function (ACF). It allows you to record in different frame rates.
	For example, you can use high frame rate to record important events, record scheduled event in lower frame rate and it allows you to set different frame rates for alarm record.
Compression	The main bit stream supports H.264. The extra stream supports H.264, MJPG.

 System supports various resolutions, you can select from the dropdown list. 						
 The first two channels support HDCVI 1080P resolution. The last two channels support HDCVI 720P resolution. System default setup is HDCVI 720P. Please make sure you are connecting to the HDCVI 1080P camera if you want to realize 720P/1080P resolution. For 4-channel analog channel, system supports 4-channel 960H resolution. System does not support audio function. 						
PAL: 1~25f/s; NTSC: 1~30f/s.						
 Main stream: You can set bit rate here to change video quality. The large the bit rate is , the better the quality is. Please refer to recommend bit rate for the detailed information. Extra stream: In CBR, the bit rate here is the max value. In dynamic video, system needs to low frame rate or video quality to guarantee the value. The value is null in VBR mode. 						
Recommended bit rate value according to the resolution and frame rate you have set.						
System supports G711a/PCM/G711µ.						
System supports G711a/PCM/G711µ. This function allows you to verify the video is tampered or not. Here you can select watermark bit stream, watermark mode and watermark character. Default character is DigitalCCTV. The max length is 85-digit. The character can only include number, character and underline.						

5.9.1.2.2 Snapshot

The snapshot interface is shown as in Figure 5-19.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout		
Channel	Encode	Snapshot		Overlay	Zero-Ch Encode	Preview Overlay	Path
Conditions Video&Audio	Channel	1	-				
Channel Name	Mode	Regular	~				
Network	Image Size	CIF (352*240)	~				
Event	Quality	4	~				
Storage	Interval	1	S				
▶ System	Time Period	Sun	~				
▶ Information	Period 1	00:00-24:0	0 E	Enable			
VEHICLE	Period 2	00:00-24:0	0 E	Enable			
	Period 3	00:00-24:0	0 E	Enable			
	Period 4	00:00-24:0	0 E	Enable			
	Period 5	00:00 - 24:0	0 E	Enable			
	Period 6	00:00 - 24:0	0 E	Enable			
		Сору	Save	Refre	esh Default		

Figure 5-19

Parameter	Function
Snapshot type	 There are two modes: Timing (schedule) and Event (activation). Timing snapshot is valid during the specified period you set. Activation snapshot only is valid when tampering alarm or local activation alarm occurs.
Image size	It is the same with the resolution of the main stream.
Quality	It is to set the image quality. There are six levels.
Interval	It is to set snapshot frequency.
Сору	Click it; you can copy current channel setup to other channel(s).

5.9.1.2.3 Overlay

The video overlay interface is shown as in Figure 5-20.

WEB SERVICE	Live	Playback	Alarm	Setup	Log	out		
Channel	Encode	Snap	shot	Overlay	Zero-C	Ch Encode	Preview Overlay	Path
Conditions Video&Audio Channel Name			2013-09	-16 10 24 2	26	Cover-Area		
Network						Preview		
Storage								
▶ Information ▶ VEHICLE						Time Dis	splay Setup	
						GPS Ove	rlay	
	CAM 1					Plate Ove	erlay	
	Сору	Save	Refresh	Default				

Figure 5-20

Parameter	Function					
Cover-area	Check Preview or Monitor first.					
(Privacy mask)	Click Set button, you can privacy mask the specified video in the preview or monitor video.					
	System max supports 4 privacy mask zones.					
Time Title	You can enable this function so that system overlays time information in video window.					
	You can use the mouse to drag the time title position.					
	You can view time title on the live video of the WEB or the playback video.					

Channel Title	You can enable this function so that system overlays channel information in video window.
	You can use the mouse to drag the channel title position.
	You can view channel title on the live video of the WEB or the playback video.
GPS Overlay	Overlay GPS information such as (speed, longitude, latitude) on the video.
Plate Overlay	Overlay some plate information on the video.

5.9.1.2.4 Zero-Ch Encoding

The zero-channel encoding interface is shown as in Figure 5-21.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout		
Channel	Encode	Snap	shot	Overlay	Zero-Ch Encode	Preview Overlay	Path
> Conditions	Enable						
> Video&Audio	Compression	H.264	~]			
> Channel Name	Resolution	CIF	~	1			
Network	Frame Rate	30	~	1			
Event	Bit Rate(Kb/S)	1024	~	1			
Storage	,						
▶ System		Sav	e Re	fresh			
Information							
VEHICLE							



Please refer to the following sheet for detailed information.

Parameter	Function
Compression	H.264
Resolution	D1/HD1/CIF/2CIF/QCIF.
Frame Rate	1~25(30).
Bit Rate(kb/s)	640/768/896/1024.

5.9.1.2.5 Preview Overlay

The preview overlay interface is shown as in Figure 5-22. You can overlay time, speed, plate information and etc on the device preview interface and Web monitor video.

The preview overlay is to overlay information on the preview interface or WEB monitor video, the information is not included in record file.

WEB SERVICE	Live	Playback Al	arm Setup	Logout		
	Encode	Snapshot	Overlay	Zero-Ch Encode	Preview Overlay	Path
[™] Channel	Encodo	ondponet	ovenay	2010 OIL ENCODE		1 CALL
Conditions						
> Video&Audio						
> Channel Name						
Network				Iime Disp	lay Setup	
Event						
Storage						
System				Speed Speed		
▶ Information						
				Plate Over	lay	
	Save	Refresh				

Figure 5-22

5.9.1.2.6 Path

The storage path interface is shown as in Figure 5-23.

Here you can set snap image saved path and the record storage path. The default setup is C:\PictureDownload and C:\RecordDownload.

Please click the Save button to save current setup.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout		
Channel	Encode	Snaps	shot	Overlay	Zero-Ch Encode	Preview Overlay	Path
Conditions Video&Audio Observations	Snapshot Path Record Path	C:\Picture			Browse		
> Channel Name Network Event		Save	e	Default			
Storage							
VEHICLE							



5.9.1.3 Channel Name

Here you can set channel name. See Figure 5-24.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout					
Channel	Channel Name									
> Conditions	Channel 1	CAM 1 Chan	nel 2 CAM 2	Channel 3	CAM 3 Ch	annel 4 CAM 4				
 Video&Audio Channel Name 	Channel 5	CAM 5 Chan	nel 6 CAM 6	_		annel 8 CAM 8	í ,			
Network		Sav	e Refre	sh Def	ault					
Event Storage										
System										
Information										
▶ VEHICLE										

5.9.2 Network

5.9.2.1 TCP/IP

The TCP/IP interface is shown as in Figure 5-25.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout	
Channel	TCP/IP					
Vetwork TCP/IP Connection DDNS Email	Mode MAC Address MTU IP Version	Static O Static O Inv4	9: 94: 44: 44			
> Alarm Centre	IP Address Subnet Mask		. 6 . 197			
Event Storage System	Default Gatewa Preferred DNS	10 . 10	. 0 . 1			
▶ Information ▶ VEHICLE	Alternate DNS		. 2 . 81			
		Sav	e Refre	sh Defa	ult	

Figure 5-25

Parameter	Function
Mode	There are two modes: static mode and the DHCP mode.
	 The IP/submask/gateway are null when you select the DHCP mode to auto search the IP.
	 If you select the static mode, you need to set the IP/submask/gateway manually.
	 If you select the DHCP mode, you can view the IP/submask/gateway from the DHCP.
	 If you switch from the DHCP mode to the static mode, you need to reset the IP parameters.
Mac Address	It is to display host Mac address.
MTU	Max transmission unit.
IP Version	It is to select IP version. IPV4 or IPV6.
	You can access the IP address of these two versions.
IP Address	Please use the keyboard to input the corresponding number to modify the IP address and then set the corresponding subnet mask and the default gateway.
Subnet Mask	Input subnet mask according to your device IP.
Default Gateway	Input default gateway according to your device IP.
Preferred DNS	DNS IP address.
Alternate DNS	Alternate DNS IP address.

For the IP address of IPv6 version, default gateway, preferred DNS and alternate DNS, the input value shall be 128-digit. It shall not be left in blank.

LAN load	System can process the downloaded data first if you enable this
	function. The download speed is 1.5X or 2.0X of the normal
	speed.

5.9.2.2 Connection

The connection interface is shown as in Figure 5-26.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout	
Channel	Connection					
▼Network > TCP/IP	Max Connection	128		(0~20)		
> Connection	TCP Port	37777		(200~65535)		
> DDNS > Email	UDP Port HTTP Port	37778		(200~65535) (1~65535)		
Alarm Centre	HTTPS Port	443		(128~65535)		
Event	RTSP Port	554	((128~65535)		
Storage System Information VEHICLE	RTSP Format		nannel, 1-8; subtype:	Code-Stream Type, M	lain Stream 0, Sub St	channel=1&subtype=0 tream 1.

Figure 5-26

Please refer to the following sheet for detailed information.

Parameter	Function
Max connection	It is the max Web connection for the same device. The value ranges from 0 to 128. The default setup is 128.
TCP port	The default value is 37777. You can input the actual port number if necessary.
UDP port	The default value is 37778. You can input the actual port number if necessary.
HTTP port	The default value is 80. You can input the actual port number if necessary.
HTTPS	The default value is 443. You can input the actual port number if necessary.
RTSP port	The default value is 554.

5.9.2.3 DDNS

The DDNS interface is shown as in Figure 5-27.

The DDNS is to set to connect the various servers so that you can access the system via the server. Please go to the corresponding service website to apply a domain name and then access the system via the domain. It works even your IP address has changed.

Please select DDNS from the dropdown list (Multiple choices). Before you use this function, please make sure your purchased device support current function.

WEB SERVICE	Live	Playback Alarm Setup Logout
Channel	DDNS	
Network TCP/IP	Enable	
Connection DDNS	DDNS Type Server IP	Quick DDNS www.dahuaddns.com
> Email	Port	12366
> Alarm Centre	Domain Mode	Default Custom Name
Event Storage	Domain Name Email	9002A9944444 dahuaddns.com Test (Optional)Please input email address.
System		Save Refresh Default
VEHICLE		

Figure 5-27

Please refer to the following sheet for detailed information.

Parameter	Function
Server Type	You can select DDNS protocol from the dropdown list and then enable DDNS function.
Server IP	DDNS server IP address
Server Port	DDNS server port.
Domain Name	Your self-defined domain name.
User	The user name you input to log in the server.
Password	The password you input to log in the server.
Update period	Device sends out alive signal to the server regularly.
	You can set interval value between the device and DDNS server here.

Quick DDNS and Client-end Introduction

1) Background Introduction

Device IP is not fixed if you use ADSL to login the network. The DDNS function allows you to access the DVR via the registered domain name. Besides the general DDNS, the quick DDNS works with the device from the manufacturer so that it can add the extension function.

2) Function Introduction

The quick DDNS client has the same function as other DDNS client end. It realizes the bonding of the domain name and the IP address. Right now, current DDNS server is for our own devices only. You need to refresh the bonding relationship of the domain and the IP regularly. There is no user name, password or the ID registration on the server. At the same time, each device has a default domain name (Generated by MAC address) for your option. You can also use customized valid domain name (has not registered.).

3) Operation

Before you use Quick DDNS, you need to enable this service and set proper server address, port value and domain name.

- Server address: www.quickddns.com
- Port number: 80
- Domain name: There are two modes: Default domain name and customized domain name.

Except default domain name registration, you can also use customized domain name (You can input your self-defined domain name.) After successful registration, you can use domain name to login installed of the device IP.

• User name: It is optional. You can input your commonly used email address.

Important

- Do not register frequently. The interval between two registrations shall be more than 60 seconds. Too many registration requests may result in server attack.
- System may take back the domain name that is idle for one year. You can get a notification email before the cancel operation if your email address setup is OK.

5.9.2.4 Email

The email interface is shown as in Figure 5-28.

WEB SERVICE	Live	Playback Alarm Setup Logout
▶ Channel	Email	
Network	Enable	
> TCP/IP	SMTP Server	MailServer
> Connection	Port	25
> DDNS	User Name	
> Email	Password	
> Alarm Centre	Sender	
Event		
Storage	Subject	DVR ALERT
System	Receiver	
Information		
VEHICLE		
	Interval	120 Second (0~3600)
	Health Enable	60 Minute (30~1440)
		Email Test
		Save Refresh Default

Figure 5-28

Parameter	Function
Enable	Please check the box here to enable email function.
SMTP Server	Input server address and then enable this function.
Port	Default value is 25. You can modify it if necessary.
Anonymity	For the server supports the anonymity function. You can auto login anonymously. You do not need to input the user name, password and the sender information.
User Name	The user name of the sender email account.
Password	The password of sender email account.
Sender	Sender email address.
Authentication (Encryption mode)	You can select SSL or none.

Parameter	Function
Subject	Input email subject here.
Attachment	System can send out the email of the snapshot picture once you check the box here.
Receiver	Input receiver email address here. Max three addresses. It supports SSL, TLS email box.
Interval	The send interval ranges from 0 to 3600 seconds. 0 means there is no interval.
	Please note system will not send out the email immediately when the alarm occurs. When the alarm or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.
Health mail enable	Please check the box here to enable this function.
Update period (interval)	This function allows the system to send out the test email to check the connection is OK or not. Please check the box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here.
Email test	The system will automatically sent out a email once to test the connection is OK or not .Before the email test, please save the email setup information.

5.9.2.5 Alarm Centre

The alarm centre interface is shown as below. See Figure 5-29.

This interface is reserved for you to develop. System can upload alarm signal to the alarm centre when local alarm occurs.

Before you use alarm centre, please set server IP, port and etc. When an alarm occurs, system can send out data as the protocol defined, so the client-end can get the data.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout	
Channel	Alarm Centre					
Network	Enable					
> TCP/IP		_				
> Connection	Protocol Type	Private	~			
> DDNS	Server IP	10 . 1	. 0 . 2			
> Email	Port	1				
> Alarm Centre						
Event	Selfreport Time	Everyday	×	at 08:00]	
Storage		Sav	e Refr	esh Defa	ult	
▶ System				,		
▶ Information						

Figure 5-29

Please refer to the following sheet for detailed information.

Parameter	Function
Server IP	Alarm centre IP address.
Port	Alarm centre port value.
Self-report time	System auto report current alarm status at the specified time.

5.9.3 Event

5.9.3.1 Video detect

5.9.3.1.1 Video loss

The video loss interface is shown as in Figure 5-30.

This function allows you to be informed when video loss phenomenon occurred. You can enable alarm output channel and then enable show message function.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout		
Channel	Video Loss	Tamp	ering				
▶ Network ▼Event	Enable	1	•				
 Video Detect Alarm 	Record Channel	1 2	3 4				
Storage System	Delay	10	Second (10-300)			
Information Vehicle	 Alarm Out Latch 	1 2 10	Second(1-300)				
Venicie	PTZ Activation	Setu	ıp				
	Snapshot		3 4				
	Show Message	Cop		ad Buzzer Refr		ault	

Figure 5-30

Channel 1	None	•	0
Channel 2	None	•	0
Channel 3	None	•	0
Channel 4	None	•	0

Figure 5-31

Parameter	Function
Enable	You need to check the box to enable video loss function. Please select a channel from the dropdown list.
Record channel	System auto activates channel(s) to record once an alarm occurs. Please note you need to set record period and go to Storage->

Parameter	Function
	Schedule to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Message	When 3G network connection is OK, system can send out a message when an video loss occurs.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset X. See Figure 5-31.

5.9.3.1.2 Tampering

The tampering (camera masking) interface is shown as in Figure 5-32.

After analysis video, system can generate a tampering alarm when the detected moving signal reached the sensitivity you set here.

For detailed setups, please refer to chapter 5.9.3.1.1 video loss for detailed information.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout			
Channel Network Event Video Detect	Video Loss	Tamp 1	eering					
 > Alarm > Storage > System 	Sensitivity Record Channel Delay	3	 3 4 Second (10-300 					
▶ Information ▶ Vehicle	Alarm Out Latch PTZ Activation	10 1 2 10 Setu	Second(1-300)					
	Snapshot	1 2 Send E	imail 🗹 Alarm Uplo	oad 🗆 Buzzer 🛛		ault		

Figure 5-32

5.9.3.2 Alarm

Before operation, please make sure you have properly connected alarm devices such as buzzer. The input mode includes local alarm and network alarm.

5.9.3.2.1 Local Alarm

The local alarm interface is shown as in Figure 5-33.

WEB SERVICE	Live	Playback	Alarm	Setup L	ogout		
Channel	Local Alarm	Net Ala	rm Alan	m Out			
Network ▼Event	🗹 Enable	1	T	Alarm name Left		Verlay	
 Video Detect Alarm 				Trigger High Level]	
Storage System	Anti-dither	5	Second(5-600)	Type Normal Open	•		
Information	Record Channel Delay	1 2 3 10	4 Second(10-300)				
venicie	 Alarm Out Latch 	1 2 10	Second(1-300)				
	PTZ Activation	Setup					
	🔲 Snapshot	1 2 3	4				
	Show Message	Send Em Copy	ail 🗹 Alarm Upload	Buzzer Mes	befault		

Figure 5-33

PTZ Activation			
Channel 1	None	•	0
Channel 2	None	•	0
Channel 3	None	•	0
Channel 4	None	•	0
	Save	Cancel	

Figure 5-34

Parameter	Function
Enable	You need to check the box to enable this function.
	Please select a channel from the dropdown list.
Period	This function becomes activated in the specified periods.
	There are six periods in one day. Please draw a circle to enable corresponding period.
	Select date. If you do not select, current setup applies to today only. You can select all week column to apply to the whole week.
	Click OK button, system goes back to local alarm interface, please click save button to exit.
Туре	Normal open or normal close.
Trigger	Here is for you to set activation mode. There are two option:

Parameter	Function
	High/low.
Overlay	Please highlight the box here to enable this function. It can
	overlay alarm information on the video screen when an alar occurred.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 5s to 600s.
Record channel	System auto activates channel(s) to record once an alarm occurs. Please note you need to set alarm record period and go to Storage-> Schedule to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset X.

5.9.3.2.2 Net Alarm

The network alarm interface is shown as in Figure 5-35.

Network alarm refers to the alarm signal from the network. System does not support anti-dither and sensor type setup. For reset setups, please refer to chapter 5.9.3.2.1.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout		
Channel Network Event Video Detect Alarm Storage	Local Alarm Enable Record Channel	Net A	•	Alarm Out			
System Information Vehicle	Delay Alarm Out Latch PTZ Activation Snapshot	10 1 2 10 Setup 1 2	Second(10-300				
	Show Message	Cop	mail 🔲 Buzzer	Message /e Refr	esh Defa	ault	

Figure 5-35

5.9.3.2.3 Alarm Out

Here you can set alarm output channel mode: schedule/manual/stop. See Figure 5-36.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout		
Channel	Local Alarm	Net A	larm	Alarm Out			
▶ Network ▼Event	Alarm Type	All 1	2				
> Video Detect	Schedule		•				
> Alarm	Manual Stop						
Storage System	Status						
▶ Information		Sav	e Refre	sh			
Vehicle							

Figure 5-36

5.9.4 Storage

5.9.4.1 Schedule

In this interfaces, you can add or remove the schedule record setup. See Figure 5-37.

There are three record modes: general (auto) and alarm. There are six periods in one day. Please make sure you have enabled the corresponding record mode in the Setup->Storage->Conditions. You can view the current time period setup from the color bar.

- Green color stands for the general record/snapshot.
- Red color stands for the alarm record/snapshot.

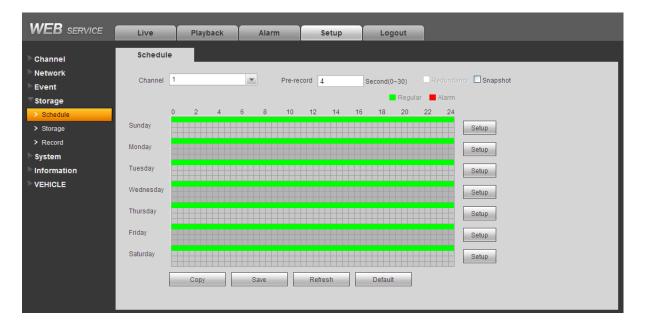


Figure 5-37

Setup						Þ
Time Period 1	00:00	24:00	Regular	D 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	D MD	Alarm	MD&Alarm
Time Period 6	00 : 00	24:00	Regular	🗆 MD	🗌 Alarm	MD&Alarm
🗆 All 🗹 Su	inday 🗌 Mond	ay 🗌 Tuesday 🔲	Wednesday] Thursda	y 🗌 Friday	Saturday
🗌 Holiday						
Save Cancel						

Figure 5-38

	×
🗆 All	
Channel 1	Channel 2
Channel 3	Channel 4
Save	Cancel

Figure 5-39

Please refer to the following sheet for detailed information.

Parameter	Function
Channel	Please select a channel from the dropdown list.

Parameter	Function
Pre-record	Please input pre-record time here. The value ranges from 0 to 30.
Redundancy	Check the box here to enable redundancy function. Please note this function is null if there is only one HDD.
Snapshot	Check the box here to enable snapshot function.
Holiday	Check the box here to enable holiday function.
Setup (Sunday to Saturday)	Click the Setup button, you can set record period. See Figure 5-38. There are six periods in one day. If you do not check the date at the bottom of the interface, current setup is for today only. Please click Save button and then exit.
Setup (Holiday)	Click the Setup button, you can set record period. See Figure 5-38. There are six periods in one day. If you check Holiday box, current channel shall record as your holiday setup here.
Сору	Copy function allows you to copy one channel setup to another. After setting in channel, click Copy button, you can go to interface Figure 5-39. You can see current channel name is grey such as channel 1. Now you can select the channel you wan to paste such as channel 2. If you wan to save current setup of channel 1 to all channels, you can click the first box "ALL". Click the OK button to save current copy setup. Click the OK button in the Encode interface, the copy function succeeded.

5.9.4.2 Storage

5.9.4.2.1 Local Storage

The local interface is shown as in Figure 5-40. Here you can see storage device information. You can also operate the read-only, write-only, hot swap and format operation.

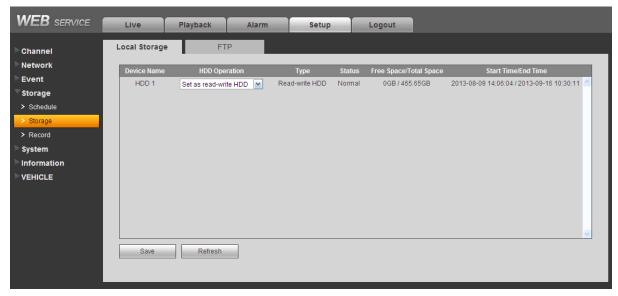


Figure 5-40

5.9.4.2.2 FTP

The FTP interface is shown as in Figure 5-41.

The FTP function is on if you check the Enable box here.

When network is offline or malfunction, system can save record or picture to HDD.

WEB SERVICE	Live Play	/back Alarm	Setup	Logout	
Channel	Local Storage	FTP			
 Network Event 	Enable Server IP	0.0.0.0*			
Storage Schedule	Port User Name	21 *			
 Storage Record System 	Password Remote Directory		Anonymous		
▶ Information ▶ VEHICLE	File Length		l Second		
	Channel	1			
	Weekday Time Period 1	Monday	🗆 Alarm 🔲 M	D 🗌 Regular	
	Time Period 2	00 : 00 - 24 : 00	Alarm M		
		Save Refre	esh Defa	JIL	

Figure 5-41

5.9.4.3 Record control

The record control interface is shown as in Figure 5-42.

Live	Playback	Alarm	Setup	Logout			
Record							
Record Mode	All 1 2 3 4						
Schedule							
Manual Stop							
	Sav	e Refre	sh Defa	ult			
:	Record Mode Schedule Manual	Record Mode All 1 2 3 4 Schedule • • • • • • Manual • • • • • • Stop • • • • •	Record Mode All 1 2 3 4 Schedule • • • • • • Manual O O O O Stop O O O O	Record Mode All 1 2 3 4 Schedule • • • • • • Manual • • • • • • Stop • • • •	Record Mode All 1 2 3 4 Schedule • • • • • • Manual • • • • • • Stop • • • • •	Record Mode All 1 2 3 4 Schedule • • • • • Manual • • • • • Stop • • • •	Record Mode All 1 2 3 4 Schedule • • • • • • • • • • • • • • • • • • •

Figure 5-42

Please refer to the following sheet for detailed information.

Parameter	Function
Channel	Here you can view channel number. The number displayed here is the max channel amount of your
	device.
Status	There are three statuses: schedule, manual and stop.
Schedule	System enables auto record function as you set in record schedule setup (general and alarm).

Manual	It has the highest priority.
	Enable corresponding channel to record no matter what period
	applied in the record setup.
Stop	Stop current channel record no matter what period applied in the
	record setup.
Start all/	Check the corresponding All button, you can enable or disable all
stop all	channels record.

5.9.5 System

5.9.5.1 General

The general interface includes General, date/time and holiday setup.

5.9.5.1.1 General

The general interface is shown as in Figure 5-43.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout	
Channel	General	Date&	Time			
Network						
▶ Event	Language	ENGLISH	¥			
Storage	Video Standar	NTSC	~			
⊽System	HDD Full	Overwrite	~			
> General	Pack Duration	60		Minute		
> Account		Sav	e Ref	resh Defa	ault	
> Default				Dela	i internet i	
Import & Export						
> Upgrade						
> RS232						
> PTZ						
▶ Information						

Figure 5-43

Please refer to the following sheet for detailed information.

Parameter	Function
Device ID	It is to set device name.
Device No.	It is device channel number.
Language	You can select the language from the dropdown list. Please note the device needs to reboot to get the modification activated.
Video Standard	This is to display video standard such as PAL.
HDD full	Here is for you to select working mode when hard disk is full. There are two options: stop recording or rewrite. If current working HDD is overwritten or the current HDD is full while the next HDD is no empty, then system stops recording, If the current HDD is full and then next HDD is not empty, then system overwrites the previous files.
Pack duration	Here is for you to specify record duration. The value ranges from 1 to 120 minutes. Default value is 60 minutes.

WEB SERVICE	Live	Playback Alarm	Setup	Logout	
Channel	General	Date&Time			
Network Event Storage	Date Format Time Format	24-HOUR	•		
System General Account	System Time DST DST Type	2013- 09 - 16 10 : 32 : ○ Date ⊙ Day of Week	53 Sync PC		
 Default Import & Export 	Start Time End Time	Jan 💌 Last Week Jan 💌 The 1st Week		D: 00 D: 00	
> Upgrade > RS232 > PTZ	✓ NTP Time Zone Server	GMT+08:00	Synchronize		
► Information ► VEHICLE	Port	123 60	(1~65535) Minute(0~65535)		
		Save	tefresh Defa	ult	

The date and time interface is shown as in Figure 5-44

Figure 5-44

Please refer to the following sheet for detailed information.

Parameter	Function
Date format	Here you can select date format from the dropdown list.
Time Format	There are two options: 24-H and 12-H.
Time zone	The time zone of the device.
System time	It is to set system time. It becomes valid after you set.
Sync PC	You can click this button to save the system time as your PC current time.
DST	Here you can set day night save time begin time and end time. You can set according to the date format or according to the week format.
NTP	You can check the box to enable NTP function.
NTP server	You can set the time server address.
Port	It is to set the time server port.
Interval	It is to set the sync periods between the device and the time server.

5.9.5.2 Account

Note:

- For the character in the following user name or the user group name, system max supports 6-digits. The space in the front or at the end of the string is null. The valid string includes: character, number, and underline.
- The user amount is 20 and the group amount is 8 when the device is shipped out of the factory. The factory default setup includes two levels: user and admin. You can set the corresponding group and then set the rights for the respective user in the specified groups.

• User management adopts group/user modes. The user name and the group name shall be unique. One user shall be included in only one group.

5.9.5.2.1 User name

In this interface you can add/remove user and modify user name. See Figure 5-45.

WEB SERVICE	Live	Playback	Alarm	Setup Lo	gout		
Channel	Account						
Network	User		Group				
▶ Event	SN	User Name	Group Name	User MAC	Memo	Modify Del	ete
Storage	1	888888	admin		admin(888) 's account	2 6	ے د
	2	admin	admin		admin 's account	2 🕻	3
System	3	default	user		default account	2 🕻	3
> General							
> Account							
> Default							
> Import & Export							
> Upgrade							<u>~</u>
> RS232							
> PTZ	Authority						<u>^</u>
	Control Panel	Shi	utdown	Real-time Monitor	Real-time MonitorChannel01	Real-time MonitorChann	nel02 🗏
Information	Real-time Moni	itorChannel03 Rea	al-time MonitorChannel04	Real-time MonitorChann	el05 Real-time MonitorChannel06	Real-time MonitorChanr	nel07
VEHICLE	Real-time Moni	itorChannel08 Pla	yback	PlaybackChannel01	PlaybackChannel02	PlaybackChannel03	
	PlaybackChan	nel04 Pla	ybackChannel05	PlaybackChannel06	PlaybackChannel07	PlaybackChannel08	~
	Add Lloos	7					
	Add User						

Figure 5-45

Add user: It is to add a name to group and set the user rights. See Figure 5-46.

There are three default administrator users: admin/888888 and hidden user "default".

Hidden user "default" is for system interior use only and can not be deleted. When there is no login user, hidden user "default" automatically login. You can set some rights such as monitor for this user so that you can view some channel view without login.

Here you can input the user name and password and then select one group for current user. Please note the user rights shall not exceed the group right setup.

For convenient setup, please make sure the general user has the lower rights setup than the admin.

Figure 5-46

Modify user

It is to modify the user property, belonging group, password and rights. See Figure 5-47.

Modify password

It is to modify the user password. You need to input the old password and then input the new password twice to confirm the new setup. Please click the OK button to save.

Please note, the password ranges from 1-digit to 6-digit. It shall include the number only. For the user of the account rights, he can modify the password of other users.

Modify User		×
User Name	Test 💌	
User Name	Test	
Reuseable		
Memo		
Group	admin 💌	
User MAC	: : : : :	
Modify Password		
Authority	Select All	
	Control Panel	<u>^</u>
	Shutdown	
	Real-time Monitor	
	Real-time MonitorChannel01	
	Real-time MonitorChannel02	~
	Save Cancel	

Figure 5-47

5.9.5.2.2 Group

The group management interface can add/remove group, modify group password and etc. The interface is shown as in Figure 5-48.

NEB service	Live	Playback	Alarm	Setup Logou	t		
	Account						
Channel							
Network	User		Group				
vent	SN		Group Name		Memo	Modify Delete	
orage	1		admin	4	administrator group	2 🛞	^
stem	2		user		user group	2 🛛 🕄	
General							
Account							
Default							
Import & Export							
Upgrade							~
RS232							
PTZ	Authority						^
formation	Control Panel		hutdown	Real-time Monitor	Real-time MonitorChannel01	Real-time MonitorChannel02	
	Real-time Monit		eal-time MonitorChannel04			Real-time MonitorChannel07	7
HICLE	Real-time Monit	torChannel08 Pl	layback	PlaybackChannel01	PlaybackChannel02	PlaybackChannel03	
	PlaybackChann	el04 Pl	laybackChannel05	PlaybackChannel06	PlaybackChannel07	PlaybackChannel08	~

Figure 5-48

Add group: It is to add group and set its corresponding rights. See Figure 5-49.

Please input the group name and then check the box to select the corresponding rights. It includes: shutdown/reboot device, live view, record control, PTZ control and etc.

Add Group		×
Group Name Memo Authority	Select All	
	Control Panel Shutdown Real-time Monitor Real-time MonitorChannel01 Real-time MonitorChannel02	
	Save Cancel	

Figure 5-49

Modify group

Click the modify group button, you can see an interface is shown as in Figure 5-50. Here you can modify group information such as remarks and rights.

Modify Group		×
Group Name	Group	
Group Name	Group	
Memo		
Authority	Select All	
	 ☑Control Panel ☑Shutdown ☑Real-time Monitor ☑Real-time MonitorChannel01 ☑Real-time MonitorChannel02 	
	Save Cancel	

Figure 5-50

5.9.5.3 Default

The default setup interface is shown as in Figure 5-51.

Here you can select Channel/Network/Event/Storage/System. Or you can check the All box to select all items.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout		
▶ Channel ▶ Network	Default						
Event Storage System	Channel Storage		letwork ystem	Event Event			
Seneral Account Default Import & Export	Set Default						
> Upgrade > RS232							
> PTZ Information VEHICLE							

Figure 5-51

5.9.5.4 Import/Export

The interface is shown as in Figure 5-52.

WEB SERVICE						
VVED SERVICE	Live	Playback	Alarm	Setup	Logout	
	Import&Expo	rt				
Channel	Importation					
Network			_			
▶ Event	Config Import	Config Export				
Storage						
⊽System						
> General						
> Account						
> Default						
> Import & Export						
> Upgrade						
> RS232						
> PTZ						
▶ Information						
VEHICLE						

Figure 5-52

Please refer to the following sheet for detailed information.

Parameter	Function
Import	It is to import the local setup files to the system.
Export	It is to export the corresponding WEB setup to your local PC.

5.9.5.5 Upgrade

The upgrade interface is shown as in Figure 5-53.

Please select the upgrade file and then click the update button to begin update. Please note the file name shall be as *.bin. During the upgrade process, do not unplug the power cable, network cable, or shutdown the device.

Important

Improper upgrade program may result in device malfunction!

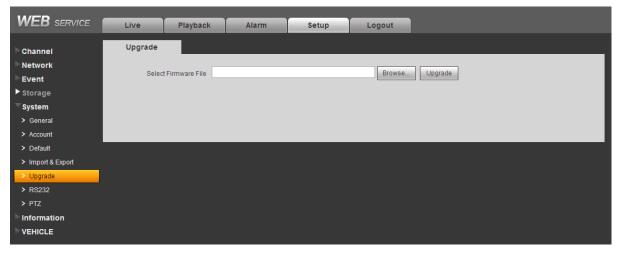


Figure 5-53

5.9.5.6 RS232 The RS232 interface is shown as in Figure 5-54.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout
	R\$232				
Channel		_			
Network	Function	Console	~		
Event	Baud Rate	115200			
Storage	Data Bit	8	Image: Second		
▼System		8			
> General	Stop Bit	1	~		
> Account	Parity	None	~		
> Default		Sav	e Refr	esh Defa	ault
> Import & Export					
> Upgrade					
> RS232					
> PTZ					
Information					
VEHICLE					

Figure 5-54

Please refer to the following sheet for detailed information.

Parameter	Function
Function	Select the corresponding COM control protocol.
	Default setup is console.
Baud Rate	Select the baud rate.
	Default setup is 115200.
Data Bit	The value ranges from 5 to 8.
	Default setup is 8.
Stop bit	There are two options: 1/2.
	Default setup is 1.
Parity	There are five options: none/odd/even/space/mark.
	Default setup is none.

5.9.5.7 PTZ

The PTZ interface is shown as in Figure 5-55.

Before setup, please check the following connections are right:

- PTZ and decoder connection is right. Decoder address setup is right.
- Decoder A (B) line connects with DVR A (B) line.

Click Save button after you complete setup, you can go back to the monitor interface to control speed dome.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout	
Channel	PTZ					
▶ Network ▶ Event	Channel	1	•			
Storage	Protocol	PELCOD	~			
System	Address Baud Rate	1 9600				
> Account	Data Bit	8	×			
 Default Import & Export 	Stop Bit Parity	1 None	×			
> Upgrade	,	Cop		e Refre	esh Defa	ault
> RS232 > PTZ						
▶ Information						
VEHICLE						

Figure 5-55

Please refer to the following sheet for detailed information.

Parameter	Function
Channel	Select speed dome connected channel.
Protocol	Select the corresponding dome protocol such as PELCOD.
Address	Set corresponding dome address. Default value is 1. Please note
	your setup here shall comply with your dome address; otherwise
	you can not control the speed dome.
Baud Rate	Select the dome baud rate. Default setup is 9600.
Data Bit	Default setup is 8. Please set according to the speed dome dial switch setup.
Stop bit	Default setup is 1. Please set according to the speed dome dial switch setup.
Parity	Default setup is none. Please set according to the speed dome dial switch setup.

Note

For HD-CVI protocol, you can use RS485 port to control the HDCVI camera. On the preview interface, right click mouse and then select PTZ. Click the + of the Iris button, you can see the corresponding menu.

5.9.6 Information

5.9.6.1 Version

The version interface is shown as in Figure 5-56.

Here you can view system hardware features, software version, release date and etc. Please note the following information is for reference only.



Figure 5-56

5.9.6.2 Log Here you can view system log. See Figure 5-57.

VEB SERVICE	Live Playback		
	Live Playback	Alarm Setup Logout	
innel	Log		
work	Start Time 2013- 09 - 15 00 : 0	0:00 End Time 2013-09 - 17 00:00:00	
nt			20.42
age	Types All 💌 S	earch Matched 33 logs Log Time 2013-09-16 09:55:44 - 2013-09-16 10:3	30:13
	No.	Time	Event
em	1	2013-09-16 10:36:13	Add Group
rmation	2	2013-09-16 10:34:13	Add User
sion	3	2013-09-16 10:28:13	User logged out
)	4	2013-09-16 10:23:53	User logged in
CLE	5	2013-09-16 10:23:53	User logged out
	6	2013-09-16 10:19:13	User logged in
	7	2013-09-16 10:09:13	User logged in
	8	2013-09-16 10:08:53	HDD
	Backup		I≪ ≪ 1/1 ► ► GOTo 1

Figure 5-57

Please refer to the following sheet for log parameter information.

Parameter	Function
Туре	Log types include: system operation, configuration operation, data
	operation, event operation, record operation, user management, log
	clear.
Start time	Set the start time of the requested log.
End time	Set the end time of the requested log.
Search	You can select log type from the drop down list and then click search
	button to view the list.
	You can click the stop button to terminate current search operation.
Detailed information	You can select one item to view the detailed information.
Clear	You can click this button to delete all displayed log files. Please note system does not support clear by type.
Backup	You can click this button to backup log files to current PC.

5.9.7 Vehicle

5.9.7.1 Vehicle

The vehicle setup interface is shown as in Figure 5-58. Here you can set device auto start and shut down time and plate information.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout
		_	Aidtill	Jetup	Logout
Channel	Vehicle Setup				
Network	License No.				
Event	Elcense No.				
Storage				Save	Refresh
▶ System					
Information					
VEHICLE					
> Vehicle	ļ				
> WIFI > 3G					
 > Auto Register 					
 Auto Maintain 					
 Abnormality 					
> Display					
> Sensor Setup					

Figure 5-58

5.9.7.2 WIFI

Please note this function is for the device of WIFI module.

The WIFI interface is shown as in Figure 5-59.

Please refer to chapter 4.8.2 for detailed setup information.

ork	WIFI Auto Connect					
					Sear	ch SSID
t	SSID List					
ge		S SID	Connect mode	Authorize Mode	Signal Intensity	
m		wifitestdahuatechnology	WPA2-PSK	AES	(and	-
nation		c910702	WEP	NONE	(all	
le		TPLINK_TEST	WPA2-PSK	AES	, and	
de		AndroidAP	WPA-PSK	TKIP	lte	
		TP-LINK_cxj	WPA2-PSK	AES	atl	
		WLAN	WPA2-PSK	AES	att	
		AndroidAP	WPA-PSK	TKIP	ati	
Register		14663	WEP	NONE	att	
Maintain		160WIFI	WPA2-PSK	AES	att	
ormality	Static Setting	Delete				
lay	Static Setting	SSID	Connect mode	Authorize Mode	Priority	
	Static Setting		Connect mode WPA2-PSK	Authorize Mode AES	Priority 1	-
lay	Static Setting	SSID				-
lay	Static Setting	SSID				-
lay	Static Setting	SSID				4
lay	Static Setting	SSID				-
lay		SSID				-
lay	WIFI Working Info	SSID wifitestdahuatechnology	WPA2-PSK			4
lay	WIFI Working Info Current Hotspot	SSID wifitestdahuatechnology wifitestdahuatechnolog	WPA2-PSK			-
lay	WIFI Working Info	SSID wifitestdahuatechnology	WPA2-PSK			4

Figure 5-59

Please check the box to enable WIFI function and then click the Search SSID button. Now you can view all the wireless network information in the following list. Double click a name to connect to it. Click Refresh button, you can view latest connection status.

Click Static setting button, you can go to WIFI setup interface. Here you can input SSID (wireless network name) and verification type such as OPEN, WEP, WPA-PSK, and WPA2-PSK. 5.9.7.3 3G

Please refer to chapter 4.8.1 for detailed setup information.

5.9.7.3.1 CDMA/GPRS

WEB SERVICE	Live Pla	yback Alarm	Setup Logout
Channel	CDMA/GPR\$ Setup	Mobile Setup	
Network Event	WLAN Type Ethernet Port	And the second s	▼ Frable
Storage System	APN	ctnet	C Dial/SMS Activate
Vehicle	AUTH Dial No.	PAP	
> Vehicle > WIFI	User Name Password	card	
> 3G > Auto Register > Auto Maintain	WLAN Status SIM State	Available	
 Abnormality Display 	IP Address	36.19.83.224	
> Sensor	Wireless Signal	Search	
	Flow use policy Flow threshold(M)	Monthly flow plan	
	Current used flow(K)	undefined	
		Save	Refresh Default

Figure 5-60

Please refer to the following sheet for detailed information.

Parameter	Function
WLAN type	Here you can select 3G network type to distinguish the 3G module from different ISP. The types include WCDMA, CDMA1x and etc.
APN/.	Here is the important parameter of PPP.
Authorization	It includes PAP,CHAP,NO_AUTH.
Dial No	The network dial number you got from your ISP.
User Name	The user name you login the 3G network.
Password	The password you login the 3G network.
SIM State	Display SIM card status.
IP Address	Display automatically got IP address after 3G online.
Wireless Signal	Display signal intensity.
Flow Use Policy	Select flow policy.
Flow Threshold(M)	Set flow threshold.
Current Used Flow(K)	Currently used flow.

5.9.7.3.2 Mobile

The mobile setup interface is shown as in Figure 5-61.

Here you can activate or turn off the 3G connected phone or mobile phone, or the phone you set to get alarm message.

WEB SERVICE	Live Playback Alarm Setup Logout
Channel	CDMA/GPRS Setup Mobile Setup
Network Event Storage	Send SMS SMS Activate Tel Activate Receiver + Sender +
System	
VEHICLE > Vehicle Setup	
> WIFI > 3G > Auto Register	
 Auto Maintain Abnormality 	Title DVR Message
DisplaySensor Setup	Save Refresh Default

Figure 5-61

5.9.7.4 Auto Register

The auto register interface is shown as in Figure 5-62. After the device connects to the network, it can send out auto register query to the specified server.

WEB SERVICE Live Playback Alarm Setup Logout Channel Auto Register Network Event Event Server IP 0.0.0 Storage Port 8000 System Information VEHICLE Save > Vehicle Setup > WiFi > 3G > Auto Register						
Network Event Server IP 0.0.0.0 Storage Port 8000 System Port Sub-device ID 0 VEHICLE Save Refresh Default > Vehicle Setup > WIFI > 3G > Auto Register > Auto Maintain > Abnormality	VVED SERVICE	Live	Playback	Alarm	Setup	Logout
Network Event Storage System Port 8000 System Information Sub-device ID 0 VEHICLE Save Refresh Default Vehicle Setup > WiFi > 3G > Auto Register > Auto Maintain > Abnormality						
Event Server IP 0.0.0.0 Storage Port 8000 System Port 8000 Information Sub-device ID 0 VEHICLE Save Refresh > Vehicle Setup Save Refresh > WIFI Sage Sage > Auto Register Auto Maintain > Abnormality	Channel	Auto Register				
Event Storage System Port 8000 Information Sub-device ID VEHICLE Vehicle Setup Vehicle Setup ViFi > 3G > Auto Register > Auto Maintain > Abnormality	Network					
Storage Server IP 0.0.0.0 System Port 8000 Information Sub-device ID 0 VEHICLE Save Refresh > Vehicle Setup Save Server IP > WIFI Save Server IP > 3G Server IP Server IP > Auto Register Auto Maintain > Abnormality	Event	🗹 Enable				
System Port 8000 Information Sub-device ID 0 VEHICLE Save Refresh > Vehicle Setup Save Default > WIFI Sase Auto Register > Auto Maintain Abnormality		Server IP	0.0.0.0			
Information Sub-device ID 0 VEHICLE Save Refresh Default > Vehicle Setup > WIFI > > > 3G > Auto Register > > > Auto Maintain > Abnormality > >	-	Port	8000			
VEHICLE Save Refresh Default > Vehicle Setup > > > > > WiFi > 3G > Auto Register > Auto Register > Auto Maintain >	-	Sub-device ID	0			
Vehicle Setup WIFI 3G Auto Register Auto Maintain Abnormality						
 > WIFI > 3G > Auto Register > Auto Maintain > Abnormality 			Sav	e Refre	esh Defa	iult
> 3G > Auto Register > Auto Maintain > Abnormality	> Vehicle Setup					
 Auto Register Auto Maintain Abnormality 	> WIFI					
> Auto Maintain > Abnormality	> 3G					
> Abnormality	> Auto Register					
	> Auto Maintain					
	> Abnormality					
	> Display					
Sensor Setup						

Figure 5-62

Please refer to the following sheet for detailed information.

Parameter	Function
Server IP	DSS server IP address.
Port	DSS server port value.
Sub-device ID	The device ID set from the DSS.

5.9.7.5 Auto Maintenance

The auto maintenance interface is shown as in Figure 5-63.

Here you can select auto reboot and auto delete old files interval from the dropdown list.

If you want to use the auto delete old files function, you need to set the file period.

WEB SERVICE	Live Pla	yback Alarm	Setup	Logout		
	Auto Maintain					
Channel	_					
Network	Auto Reboot	Tuesday 💌	02:00			
▶ Event						
Storage	Auto Delete Old Files	Customized 💌	1 Days ago			
System	Auto Boot up	Valid 💌	00:00			
▶ Information	Auto Shutdown	Never	00:00			
VEHICLE	System					
> Vehicle Setup	ACC Delay	30				
> WIFI						
> 3G		Manual Reboot				
> Auto Register		Save	Refresh			
> Auto Maintain						
> Abnormality						
> Display						
> Sensor Setup						

Figure 5-63

5.9.7.6 Abnormality

It includes six statuses: No disk, disk error, disk no space, battery low, temperature high. See Figure 5-64 through Figure 5-68.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout		
Channel	No HDD	HDD Erro	r HC	DD No Space	Battery Low	Temperature High	
 Network Event 	Enable						
Storage System	Alarm Out	1 2	Second(1-	300)			
▶ Information ▼VEHICLE	Show Message	Send Send	Email 🗖 Ala	arm Upload 🛛 Bu	izzer 🗆 Message		
 Vehicle Setup WIFI 		Sa	ve	Refresh			
> 3G > Auto Register							
> Auto Maintain							
 Abnormality Display 							
 Sensor Setup 							

Figure 5-64

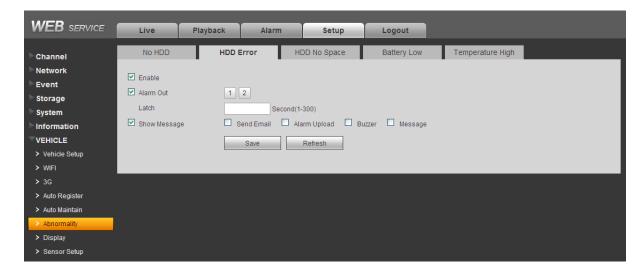


Figure 5-65

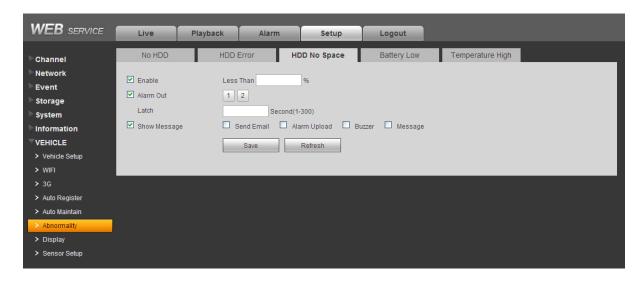


Figure 5-66

WEB SERVICE	Live	Playback	Alarm Setup	Logout		
Channel	No HDD	HDD Error	HDD No Space	Battery Low	Temperature High	
 Network Event 	Enable	Less Than	20 % Battery Vo	Itage 12 V(12~32)		
Storage System	Alarm Out	1 2	Second(1-300)			
▶ Information ▼VEHICLE	Show Message	Send E		🗆 Buzzer 🗖 Message		
 Vehicle Setup WIFI 						
> 3G> Auto Register						
 Auto Maintain Abnormality 						
DisplaySensor Setup						

Figure 5-67





Please refer to the following sheet for detailed information.

Parameter	Function
Event Type	The abnormal events include: No disk, disk error, disk no space, battery low, temperature high.
	You can set one or more items here.
Enable	Check the box here to enable selected function.
Alarm Out	Please select corresponding alarm output channel when an alarm occurs. You need to check the box to enable this function.
Latch	The alarm output can delay for the specified time after an alarm stops. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.

5.9.7.7 Display

Display interface includes GUI, and TV adjust.

5.9.7.7.1 GUI

Here you can set background color and transparency level. See Figure 5-69.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout	
Channel	GUI	TV Ad	just			
Channel Network			·			
Event	Resolution	800*600	~			
▶ Storage	Transparency	⊴	0) ▷ 255		
► System	Channel Display					
Information	Image Enhance					
VEHICLE	License No.					
 Vehicle Setup 	GPS Display					
> WIFI	Temperature Title					
> 3G > Auto Register	Auto Logout	10	M	linute(0-60)		
 Auto Register Auto Maintain 	Startup Wizard					
> Abnormality						
> Display		Save	Refre	esh Defa	ult	
> Sensor Setup						

Figure 5-69

Please refer to the following sheet for detailed information.

Parameter	Function
Resolution	There are five options: 1920×1080, 1280×1024, 1280×720,
	1024x768, 800x600(Default). Please note the system needs to
	reboot to activate current setup.
Transparency	Here is for you to adjust transparency. The value ranges from 128
	to 255.

Time title/channel title	Check the box here, you can view system time and channel number on the monitor video.
Image enhance	Check the box; you can optimize the margin of the preview video.
Auto logout	Here is for you to set auto logout interval once login user remains inactive for a specified time.
Startup wizard	Check the box here, system goes to the startup wizard when the devi boots up the next time. Otherwise, it goes to the system login interfaction directly.
Navigation bar	Check the box here, system displays the navigation bar on the interface.

5.9.7.7.2 TV Adjust

It is to set TV output region. See Figure 5-70.

WEB service					
SERVICE	Live	Playback	Alarm	Setup	Logout
	GUI	TV Ad	iust		
Channel					
Network	Top Margin	⊴_0_		▶ 12	
▶ Event	Bottom Margin	⊴		▶ 20	
Storage		0			
▶ System	Left Margin	0		▶ 22	
Information	Right Margin	⊲0-		▷ 20	
VEHICLE	Brightness	⊲		▶ 128	
> Vehicle Setup		Save	Refre	esh Defa	ult
> WIFI					
> 3G					
> Auto Register					
> Auto Maintain					
> Abnormality					
> Display					
> Sensor Setup					

Figure 5-70

5.9.7.8 Speed

In this interface, you can view vehicle speed information. See Figure 5-71.

WEB SERVICE						
VILD SERVICE	Live	Playback	Alarm	Setup	Logout	
	SPEED	_				
Channel Channel	SFEED					
Network	Speed Ratio	6400				
▶ Event			_			
Storage	Mileage Ratio	1				
▶ System	Mileage Cumula	tion Always	-			
▶ Information	conf_speed.sou	rce	•			
▼Vehicle		Sav	e Refre	sh Defa	ult	
> Vehicle				[
> WIFI						
> 3G						
> Auto Register						
> Auto Maintain						
> Abnormality						
> Display						
> Sensor						

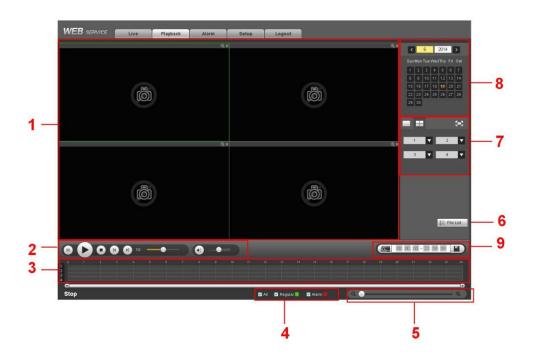
Figure 5-71

5.10 Playback

Click Playback button, you can see an interface is shown as in Figure 5-72.

Please set record type, record date, window display mode and channel name.

You can click the date on the right pane to select the date. The green highlighted date is system current date and the blue highlighted date means it has record files.





Please refer to the following sheet for detailed information.

SN	Function	Description
1	Display window	Click to switch window amount. During the playback process, double click a window to zoom in.
2		
	Playback control pane.	From left to right: pause/play/stop/previous frame/next frame/slow play/fast play/volume.
	P	The next frame button is only valid when record is in pause mode.
		Once the volume button becomes, the audio is mute.
3		• It is to display the record type and its period in current search
	Time bar	criteria.
		• Use the mouse to click one point of the color zone in the time

tting
) 1
ł
•
ne
n
oar.

5.10.1 Playback Record

There are three playback modes: Click play button/click any valid file position in the time bar/double click any file in the file list.

5.10.2 Clip and Save Record

It is to edit the file and save the interested footages to your local PC.

Use the calendar and time bar to search file(s).

Select corresponding channel(s).

There are two ways for you to clip.

• Please play the file you want to edit and then click button when you want to edit. You can see the corresponding slide bar in the time bar of the corresponding channel such as

and . You can adjust the slide bar or input the accurate time to set the file end time. Click this button again and then save current contents in a new file.

 In this following figure, input start time and end time. See Figure 5-73. Click save button



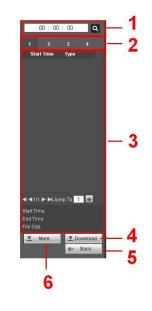
Figure 5-73

The default saved path is RecordDownload folder of the system HDD. You can change if necessary.

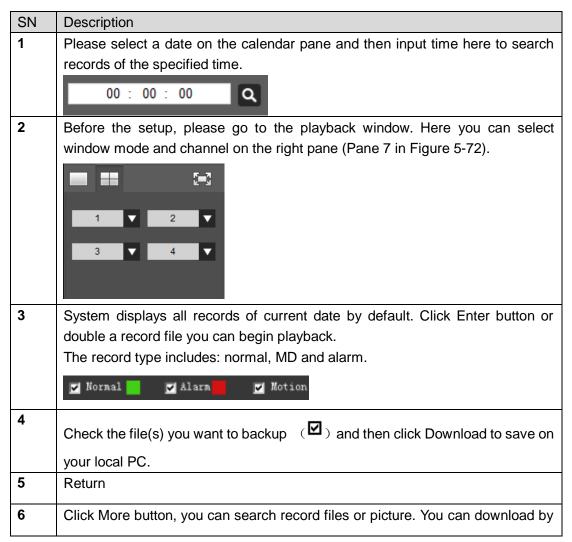
You can see the corresponding dialogue box when system is saving files. You can click Stop button to cancel current operation.

5.10.3 File List

Then please click file list button (Button 6 in Figure 5-72), you can see the corresponding files in the list. See Figure 5-74.







SN	Description
	setting record channel, record type and record time.
	Here you can also download file to your local PC or USB devices. You can go to
	chapter 5.9.1.2.6 to set download path.

Load more

It is for you to search record or picture. You can select record channel, record type and record time to download. There are two download types. The download by file interface is shown as in Figure 5-75 and the download by time interface is shown as in Figure 5-76.

Туре	All Records V Main Sub V	End Time	2013 . 10 . 25 23	3 : 59 : 59				
Bit Stream Type	No.	File Size	Start Time	End Time	File Type	Bit Stream Type	Channel	
	1	958836KB	2013-10-24 00:00:00	2013-10-24 01:00:01	Regular	Main Stream	1	
	2	958063KB	2013-10-24 01:00:01	2013-10-24 02:00:00	Regular	Main Stream	1	
	3	958669KB	2013-10-24 02:00:00	2013-10-24 03:00:01	Regular	Main Stream	1	
	4	958456KB	2013-10-24 03:00:01	2013-10-24 04:00:01	Regular	Main Stream	1	
	5	958422KB	2013-10-24 04:00:01	2013-10-24 05:00:01	Regular	Main Stream	1	
	6	958200KB	2013-10-24 05:00:01	2013-10-24 06:00:01	Regular	Main Stream	1	
	7	958699KB	2013-10-24 06:00:01	2013-10-24 07:00:02	Regular	Main Stream	1	
	8	958173KB	2013-10-24 07:00:02	2013-10-24 08:00:01	Regular	Main Stream	1	
Download to Loca Back	Download to USB					M 4 1/	15 🕨 🕅 Jump To 👖	(

Figure 5-75

Channel 1 V Start Tim Bit Stream Type Main Stream V End Time		
Download to Local		
	Record Format DAV Y Save Path C:RecordDownload Browse	
	CK. Cancel	

Figure 5-76

Watermark

Watermark interface is shown as In Figure 5-75. Please select a file and then click Verify button to see the file has been tampered with or not

.ocal File	Download by Time Watermark			
mark Revised Info	Malfunction type Normal	Watermark Time	~	

Figure 5-77

5.11 Alarm

Click alarm function, you can see an interface is shown as Figure 5-78. Here you can set device alarm type and alarm sound setup.

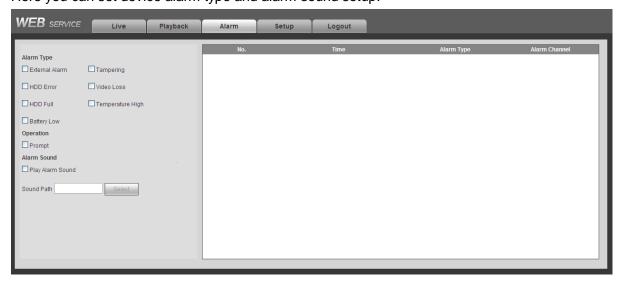


Figure 5-78

Please refer to the following sheet for detailed information.

Туре	Parameter	Function
Alarm	Video loss	System alarms when video loss occurs.
Туре	Camera	System alarms when camera is viciously
	masking(Tampering)	masking.
	Disk full	System alarms when disk is full.
	Disk error	System alarms when disk error occurs.
		Alarm input device sends out alarm.
		System alarms when temperature is high.
	Battery low	System alarms when battery voltage is low

Please make sure current device can upload the alarm.

Туре	Parameter	Function
Operation	Prompt	Check the box here, system can automatically
		pops up an alarm icon on the Alarm button in
		the main interface when there is an alarm.
Alarm	Play alarm sound	System sends out alarm sound when an alarm
Sound		occurs. You can specify as you wish.
	Sound path	Here you can specify alarm sound file.

5.12 Log out

Click log out button, system goes back to log in interface. See Figure 5-79. You need to input user name and password to login again.

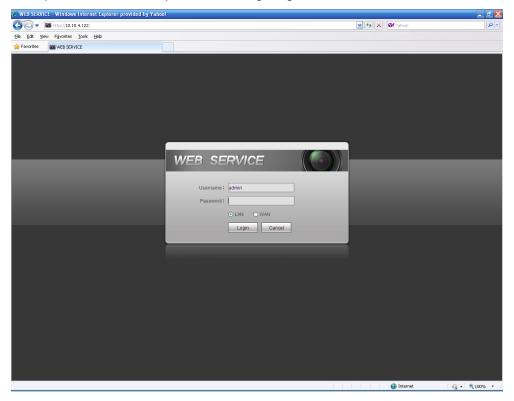


Figure 5-79

5.13 Un-install Web Control

You can use web un-install tool "uninstall web.bat" to un-install web control.

Please note, before you un-installation, please close all web pages, otherwise the un-installation might result in error.

6 Digital Surveillance System

Besides Web, you can use our Digital Surveillance Software (DSS) to login the device. For detailed information, please refer to *DSS user's manual.*

7 FAQ

1. After the vehicle started, the DVR can not boot up properly.

There are following possibilities:

- Input power is not correct. It is too high or too low.
- Power connection is not correct.
- Power switch button is damaged.
- Program upgrade is wrong.
- HDD malfunction or something wrong with HDD ribbon.
- Seagate DB35.1, DB35.2, SV35 or Maxtor 17-g has compatibility problem. Please upgrade to the latest version to solve this problem.
- Front panel error.
- Main board is damaged.

2. DVR often automatically shuts down or stops running.

There are following possibilities:

- Input voltage is not stable or it is too low.
- HDD malfunction or something wrong wit the ribbon.
- Button power is not enough.
- Front video signal is not stable.
- Working environment is too harsh, too much dust.
- Hardware malfunction.

3. System can not detect hard disk.

There are following possibilities:

- HDD is broken.
- HDD ribbon is damaged.
- HDD cable connection is loose.
- Main board SATA port is broken.

4. There is no video output whether it is one-channel, multiple-channel or all-channel output.

There are following possibilities:

- Program is not compatible. Please upgrade to the latest version.
- Brightness is 0. Please restore factory default setup.
- There is no video input signal or it is too weak.
- Check privacy mask setup or your screen saver.
- DVR hardware malfunctions.

5. Real-time video color is distorted.

There are following possibilities:

- When using BNC output, NTSC and PAL setup is not correct. The real-time video becomes black and white.
- DVR and monitor resistance is not compatible.

- Video transmission is too long or degrading is too huge.
- DVR color or brightness setup is not correct.

6. Can not search local records.

There are following possibilities:

- HDD ribbon is damaged.
- HDD is broken.
- Upgraded program is not compatible.
- The recorded file has been overwritten.
- Record function has been disabled.

7. Video is distorted when searching local records.

There are following possibilities:

- Video quality setup is too low.
- Program read error, bit data is too small. There is mosaic in the full screen. Please restart the DVR to solve this problem.
- HDD data ribbon error.
- HDD malfunction.
- DVR hardware malfunctions.

8. There is no audio when monitor.

There are following possibilities:

- It is not a power picker.
- It is not a power acoustics.
- Audio cable is damaged.
- DVR hardware malfunctions.

9. There is audio when monitor but there is no audio when system playback.

There are following possibilities:

- Setup is not correct. Please enable audio function
- Corresponding channel has no video input. Playback is not continuous when the screen is blue.

10. Time display is not correct.

There are following possibilities:

- Setup is not correct
- Battery contact is not correct or voltage is too low.
- Crystal is broken.

11. DVR can not control PTZ.

There are following possibilities:

- Front panel PTZ error
- PTZ decoder setup, connection or installation is not correct.
- Cable connection is not correct.
- PTZ setup is not correct.

- PTZ decoder and DVR protocol is not compatible.
- PTZ decoder and DVR address is not compatible.
- When there are several decoders, please add 120 Ohm between the PTZ decoder A/B cables furthest end to delete the reverberation or impedance matching. Otherwise the PTZ control is not stable.
- The distance is too far.

12. Can not log in client-end or web.

There are following possibilities:

- For Windows 98 or Windows ME user, please update your system to Windows 2000 sp4. Or you can install client-end software of lower version. Please note right now, our DVR is not compatible with Windows VISTA control.
- ActiveX control has been disabled.
- No dx8.1 or higher. Please upgrade display card driver.
- Network connection error.
- Network setup error.
- Password or user name is invalid.
- Client-end is not compatible with DVR program.

13. There is only mosaic no video when preview or playback video file remotely.

There are following possibilities:

- Network fluency is not good.
- Client-end resources are limit.
- There is multiple-cast group setup in DVR. This mode can result in mosaic. Usually we do not recommend this mode.
- There is privacy mask or channel protection setup.
- Current user has no right to monitor.
- DVR local video output quality is not good.

14. Network connection is not stable.

There are following possibilities:

- Network is not stable.
- IP address conflict.
- MAC address conflict.
- PC or DVR network card is not good.

15. USB backup error.

There are following possibilities:

- Burner and DVR are in the same data cable.
- System uses too much CPU resources. Please stop record first and then begin backup.
- Data amount exceeds backup device capacity. It may result in burner error.
- Backup device is not compatible.
- Backup device is damaged.

16. Alarm signal can not been disarmed.

There are following possibilities:

- Alarm setup is not correct.
- Alarm output has been open manually.
- Input device error or connection is not correct.
- Some program versions may have this problem. Please upgrade your system.

17. Alarm function is null.

There are following possibilities:

- Alarm setup is not correct.
- Alarm cable connection is not correct.
- Alarm input signal is not correct.
- There are two loops connect to one alarm device.

18. Remote control does not work.

There are following possibilities:

- Remote control address is not correct.
- Distance is too far or control angle is too small.
- Remote control battery power is low.
- Remote control is damaged or DVR front panel is damaged.

19. Record storage period is not enough.

There are following possibilities:

- Camera quality is too low. Lens is dirty. Camera is installed against the light. Camera aperture setup is not correct.
- HDD capacity is not enough.
- HDD is damaged.

20. Can not detect SIM card

There are following possibilities:

- There is no SIM card.
- SIM card direction is wrong.
- SIM card is malfunction.

21. My cell phone 3G dial failed.

There are following possibilities:

- You have not installed the dial module or your installation is not right.
- Please make sure you have inserted the card.
- You have not installed the antenna or the connection is not sound.
- The centre platform configuration is not right or the registration is not effective.
- The cell phone remaining sum is not sufficient.
- Signal is too weak.
- SIM card does not support corresponding service.

22. 3G platform is offline

There are following possibilities:

• Refer to the above item to check 3G dial function is OK or not.

- Check local auto register function setup.
- Check server setup.

23. No GPS data

There are following possibilities:

- Check GPS antenna connection
- GPS antenna environment is free of block object.
- Vehicle data module is running or not.

Daily Maintenance

- Do not allow other objects falling into the DVR (such as water), it may result in device malfunction.
- Always follow the transportation instructions. Do not transport the DVR upside down.
- Please pay attention to the cable connection. The improper connection steps may result in device malfunction or damage.
- Please make sure all the external cables have soundly earthed.
- Before you connect the power cable, please make sure other cables have properly connected.
- Use the cable strap in case there is short circuit, electric shock.
- Please keep the power cable neat in case it obstacles the driver or the passenger.
- Please remove the negative end (-) of the connection terminal before you configure the cable.
- Please unlock the key before you draw out the HDD box. Otherwise it may result in device damage.
- When washing the vehicle, please keep the DVR away from the water. Otherwise it may result in short circuit, fire or device malfunctions.
- Please make sure the DVR is away from the direct sunlight or other heating sources. Please keep the sound ventilation.
- Please use the brush to clean the board, socket connector and the chassis regularly.
- The DVR shall be soundly earthed in case there is audio/video disturbance. Keep the DVR away from the static voltage or induced _voltage.
- Please unplug the power cable when you remove the audio/video signal cable, RS232 or RS485 cable.
- Please check the DVR is secured firmly and horizontally. Please make sure the anti-vibration component can work properly.
- Please check and maintain the DVR regularly.

8 Appendix A HDD Capacity Calculation

Calculate total capacity needed by each device according to video recording (video recording type and video file storage time).

Step 1: According to Formula (1) to calculate storage capacity q_i that is the capacity of each channel needed for each hour, unit Mbyte.

$$q_i = d_i \div 8 \times 3600 \div 1024 \tag{1}$$

In the formula: d_i means the bit rate, unit Kbit/s

Step 2: After video time requirement is confirmed, according to Formula (2) to calculate the storage capacity m_i , which is storage of each channel needed unit Mbyte.

$$m_i = q_i \times h_i \times D_i \tag{2}$$

In the formula:

 h_i means the recording time for each day (hour)

 D_i means number of days for which the video shall be kept

Step 3: According to Formula (3) to calculate total capacity (accumulation) q_T that is needed for all channels in the device during **scheduled video recording**.

$$q_T = \sum_{i=1}^{c} m_i \tag{3}$$

In the formula: c means total number of channels in one device

Step 4: According to Formula (4) to calculate total capacity (accumulation) q_T that is needed for all channels in device during **alarm video recording**.

$$q_T = \sum_{i=1}^{c} m_i \times a\% \tag{4}$$

In the formula: a% means alarm occurrence rate

Note

- This manual is for reference only. Slight difference 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 are the properties of their respective owners.

- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website or contact your local service engineer for more information.