

DVR-411AUTO Mobile DVR User's Manual



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Welcome

Thank you for purchasing our DVR!

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

Here you can find information about this series DVR features and functions, as well as a detailed menu tree.

Before installation and operation please read the following safeguards and warnings carefully!

Important Safeguards and Warnings

1. Electrical safety

All installation and operation here should conform to your local electrical safety codes. 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.

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.

Important notice

Please note the GPS, 3G are optional functions. You need to make sure your purchased units support the above mentioned function before you use.

- The unit of the GPS module supports the GPS function.
- The unit of the 3G module supports the 3G function.

1 FEATURES AND SPECIFICATIONS

1.1 Overview

This series mobile DVR is developed based on our latest display platform. It max supports 1280*1024 resolution. It adopts popular H.264 algorithm and have high encode efficiency. It supports 1/2/4-channel record. The playback resolution can be set via the hardware button.

This series product also adopts the professional mobile design, low power consumption, no fan construction, standardized small dimension (the standard 1DIN mobile CD dimension.).The modern appearance is suitable for embedded installation in the vehicle control panel. The voltage value threshold is suitable for various mobile powers. The unique anti-vibration design makes it easier to backup and manage the record.

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

1.2 Technical Features

This series product has the following features:

Real-time monitor

It has analog output port and VGA port. You can use monitor or displayer to realize surveillance function.

System supports TV/VGA output at the same time.

• Storage function

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

Compression format

Support multiple-channel audio and video. 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, burner) Clientend user can download the DVR file from the CF card to backup via network.

• Record playback function

Support each channel real-time record independently, and at the same time it can support search, 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 playback.

• Alarm activation function

Several relay alarm outputs to realize alarm activation and on-site light control. The alarm input port and output port has the protection circuit to guarantee device safety.

• Alarm overlay

It can get the vehicle running status information via the alarm IO and then overlay. The vehicle status information includes: front door, back door, left-turn light, right-turn light, brake, running status (speed measurement).

Communication port

RS485 port can realize alarm input.

RS232 port can connect to keyboard to realize central control, and can also connect to PC COM to upgrade system and realize maintenance, and matrix control. Standard Ethernet port can realize network access function.

PTZ control

Support PTZ decoder via RS485. Support various decode protocols to allow the PTZ to control the speed dome.

• 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.

• CF car storage media

Comparing with the traditional HDD storage media, the CF card greatly improves the antivibration capability and has higher stability.

• One-button operation

You can click just one button to realize record backup, program upgrade, which makes it suitable for the daily maintenance and operation in the vehicle.

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 seven external alarm output ports. The alarm outputs support pre-defined setup. System can overlay this information to the screen or the bit stream.

• Hardware mode options

The system has two statuses: normal running status and alarm running status. In the normal running status, there are three working modes and can be enabled via the hardware setup.

- \diamond Mode 1: Picture quality has the higher priority.
- ♦ Mode 2: Video fluency has the higher priority.
- ♦ Mode 3: Customer self-defined.

In the alarm running status, there is only one alarm mode and it can be enabled via the software setup.

• Hardware reset

The hardware reset via the IO.

During the device running process, you can click the RESET button at the front-panel to restore the system default setup.

Slight function difference may be found due to different series.

1.3 Features

• Extra low power consumption

Low power consumption design (With the CF card, the whole device power consumption is below 12W.), which can greatly reduce the accumulator load and make the circuit safer. (It is also very meaningful when you use the latch record function. During the latch record function, the device needs to use the power from the accumulator. If the power is too high, it may result in accumulator safety problem.)

• Mobile vehicle power

Professional vehicle power design. It is suitable for various voltages. It has overload protection, under voltage protection, short circuit protection and overflow protection.

• High 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-channel series
System	Main Processor	High-performance industrial embedded micro controller
	OS	Embedded LINUX
	System Resources	Multiplex operations: Multiple-channel record, multiple-channel playback and network operation simultaneously
	Interface	User-friendly graphical user interface
	Input Devices	USB mouse, remote control
	Input Method	Arabic number, English character, donation and extension Chinese (optional)
	Shortcut Function	Copy/paste operation, USB mouse right-key shortcut menu, double click USB mouse to switch screen.
Compression Standard	Video Compressio n	H.264
	Audio Compressio n	G.711A
	Video Input	4-CH composite video input: (NTSC/PAL), aviation port $(1.0V_{P-P_1} 75\Omega)$
	Video Output	 1-ch PAL/NTSC, aviation-level (1.0V_{P-P}, 75Ω) composite video signal output. 1-ch VGA output. Support TV/VGA video output at the same time.
Video monitor	Video Standard	PAL (625 line, 50f/s), NTSC (525 line, 60f/s)
		Real-time mode: PAL 1f/s to 25f/s per channel and NTSC 1f/s to 30f/s per channel
	Resolution (PAL/NTSC)	Main stream: D1 704×576/704×480 (Mode 1: 2/3fps, 128kbps) CIF 352×288/ 352×240, QCIF 176×144/176×120 Extra stream: CIF 352×288/ 352×240, QCIF 176×144/176×120
	Video Partition	1/4 windows(Optional)
	Monitor Touring	Support monitor tour functions such as alarm, motion detection, and schedule auto control.
	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, plate information, vehicle running information and privacy mask zone. Please note only the unit of 3G module supports GPS information.
	TV Adjust	Adjust TV output zone suitable to anamorphic video.
	Channel Lock	Cover secret channel with blue 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	Hue, brightness, contrast, saturation and gain setup for each channel.
Audio	Audio Input	4-ch aviation-level 200-2000mv 10KΩ ports.
	Audio Output	1-ch aviation-level 200-3000mv 5KΩ port.
	Bidirectional Audio	1-ch active MIC input channel 1-ch Line out output channel
CF card	CF card	Max supports 2 CF cards.
	CF card Read and Write Value (For your reference only)	30MB/S, 60MB/S, 90MB/S (Depends on your purchased CF card actual value.)
Record and	Recording Mode	Manual recording, motion detection recording, schedule recording and alarm recording Priority: Manual recording> alarm recording>motion detection
playback		recording>schedule recording.
	Video Resolution	Max supports D1 PAL : 2fps, NTSC :3fps.
	Recording Length	1 to 120 minutes single record duration (Default setup is 60 minutes)
	Playback Repeat Way	When CF card is full, system can overwrite previous video file.
	Record Search	Various search engines such as time, type and channel.
	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 file is end system auto plays the next file in the current channel
	Multi- channel Playback	4-ch playback mode.
	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.
Backup		CF card backup
function	Backup Mode	Support peripheral USB backup device. (Flash disk, portable disk and etc.)
		Support USB burner (extension function). Support network download and backup
		View monitor channel remotely.
		DVR configuration through client-end and web browser
Noture		Upgrade via client or browser to realize remote maintenance.
Network Function	Network	View alarm information such as external alarm, motion detection and
	Control	video loss via client.
		Support network PTZ lens control
		File download backup and playback Multiple devices share information via corresponding software such as professional surveillance software (PSS)

		Duplex transparent COM
		Network alarm input and output
		Bidirectional audio.
	Motion	Zone setup: support 396((PAL 22×18, NTSC 22×15)) detection zones.
Motion	Detection	Various sensitivity levels.
Detection and		Alarm can activate record or external alarm or screen message prompt.
Alarm		The alarm responding time is less than 5 seconds.
	Video Loss	Alarm can activate external alarm or screen message prompt.
		The alarm responding time is less than 5 seconds.
	Pre-record	The alarm activation pre-record time ranges from 5 to 30 seconds.
	External	Support record activation function or activate external alarm or screen
	Alarm	message in specified period.
	Manual Alarm	Enable or disable alarm input channel
	Control	Support analog alarm signal to specific alarm output channel.
		7-ch alarm input
	Alarm Input	Pre-defined alarm type.
	Alarm	Alarm input voltage ranges from 6 to 36V. 2-channel relay output.
	Output	
	Alarm Relay	30VDC 1A, 125VAC 0.3A (activation alarm)
Interface	CF card	Two CF card ports.
	USB	One USB 2.0 ports. Support one extension port
	Interface	
	Network	RJ45 10M/100M self-adaptable Ethernet port
	connection	
	RS485	One RS485 port. PTZ control interface. Support various protocols.
		1 RS232 ports.
		Ordinary COM (Debug), keyboard connection and transparent serial
	RS232	port(COM input and output via network)
		Connect to the peripheral low-speed device.
		COM hand shaking function supported.
Extension	GPS	Built-in GPS module to realize the GPS information display, overlay and
Function		record.
		Built-in 3G module (EV-DO, WCDMA, TD-SCDMA), support period
	3G	setup, message activation online and offline setup, audio activation
		online and offline setup, alive time setup.
System Information	CF card Information	Display CF card current status
mormation	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 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 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
	on	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
	and Chutdown	User-friendly interface when logout. Provide the following options: Logout
Login, Logout a		/shutdown/ restart.
		Right authentication when shut down to make sure only those proper people can turn off DVR
	Power	DC 6V~36V
General Parameter	Power Consumptio n	≤12W (Exclude CF card)
	Working Temperatur e	-20℃ to +60℃ (Built-in power)
	Working Humidity	5% - 95%
	Air Pressure	86kpa - 106kpa
	Dimension	178 x50 x220mm (W*D*H)
	Weight	1.5KG(Include CF card)
	Installation Mode	Desktop/in-ceiling/wall-mount installation

2 Overview and Controls

This section provides information about front panel and rear panel. When you install this series DVR for the first time, please refer to this part first.

2.1 Front Panel

The front panel is shown as in Figure 2-1.



Figure 2-1

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

SN	Function
1	CF card connection port
2	RESET button
3	CF card lock
4	Mode option button
5	10/100M Ethernet port
6	USB 2.0 data port
7	IR receive port
8	Global error indication light
	3G indication light
9	Please note only the unit of 3G module
	supports this function.
	GPS indication light
10	Please note only the unit of GPS module
	supports this function.
	Front panel lock indication light.
11	The light is on when the CF card is locked.
	Otherwise it is off.
	Alarm indication light
12	The light is on when system generates an
	alarm.
	Otherwise it is off.
	Network indication light
13	The light is on when the network connection is
10	OK.
	Otherwise it is off.
	CF card read/write indication light
14	The light is on when CF card read/write error occurs.

	Otherwise it is off.			
	CF card indication light The light is on when the CF card is working			
15	properly. Otherwise it is off.			
	Working mode status indication light			
16	The corresponding working mode light is on			
when the system is in the specified working				
-	mode.			
	Channel record indication light			
17	The light is on when the corresponding channel			
	is recording.			
	Otherwise it is off.			
	Power indication light			
18	The light is on when system power supplying is			
10	OK.			
	Otherwise it is off.			

2.1.1 Hardware Mode

The system has two statuses: normal running status and alarm running status.

Important:

When the device is running, you need to reboot the device to activate mode modification setup.

In the normal running status, there are three working modes and can be enabled via the hardware setup.

- Mode 1(Default mode): Picture quality has the higher priority. The record resolution supports 1-channel D1 and 3-channel CIF. The D1 frame rate is 2fps and bit rate is 128kbps.
- Mode 2: Video fluency has the higher priority. System adopts 4-channel CIF record. Bit rate is 25fps and the bit rate is 640kbps.
- Mode 3: Customer self-defined. It supports customized setup. The max capabilities are: 4CIF/25fps. The default setup is 4-channel CIF. Frame rate is 25fps and bit rate is 640kbps.

Please note system default setup is Mode 1.

In the alarm running status, there is only one alarm mode and it can be enabled via the software setup. It can guarantee the fluency and the picture quality at the same time. It adopts 4-channel CIF record. The frame rate uses 25fps and the bit rate is 512kbps.

Please note the alarm running status initialization setup is disabled by default.

2.1.2 Hardware reset

The hardware reset via the IO.

During the device running process, you can click the RESET button at the front-panel to restore the system default setup.

Press the RESET button for one second; you can hear the buzzer beeps. You can see the reset succeeded and then the system begins reboot.

2.2 Rear Panel

The rear panel is shown as below. See Figure 2-2.

Please note slight difference may be found in the rear panel. Your DVR may not support all the functions listed below.



Figure 2-2

Please refer to the following sheet for detailed information.

SN	Function
	3G antenna port
1	Please note only the unit of 3G module supports this
	function.
	SIM card socket
2	Please note only the unit of 3G module supports this
	function.
	WIFI antenna port
3	Please note only the unit of WIFI module supports this
	function.
	GPS antenna port
4	Please note only the unit of GPS module supports this
	function.
5	Audio/video input port.
6	Audio/video output port.
7	VGA video output port.
8	Bidirectional talk input port
9	RS485 port
10	RS232 port
11	Extension port
12	Alarm input /output port.
13	Power port

2.3 Connection Interface

The connection interface is shown as below. See Figure 2-3.



Figure 2-3

2.4 Remote Control

The remote control interface is shown as in _____Figure 2-4.

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



Figure 2-4

Serial Number	Name	Function		
1	View	Switch window		
2	ID	Click it to input device serial number, so that you can control it.		
3	Number 0 to 9	Input password, channel or switch channel.		
4	Record	Record		
5	Aux	Auxiliary button		
6	Enter	Confirm button		
	Menu	Menu button		
	Esc	Cancel button		
		Direction buttons Direction buttons in PTZ. Control.		
7		Stop button Zoom out button in the PTZ control.		
	ŀ	Slow play		
		Playback/pause Zoom in button in the PTZ control		
		Backward		
	•	Previous		
		Forward		
		Various slow play speed and normal speed play. Focus (-) button in the PTZ control.		
	•	Next		
		Various fats play speeds and normal play speed. Focus (+) button in the PTZ control.		
8	F1	Shortcut button to backup		
9	F2	Upgrade button		
10	F3	Reset button		

2.5 Mouse Control

Left click	System pops up password input dialogue box if you have not logged in.
mouse	In real-time monitor mode, you can go to the main menu.
	When you have selected one menu item, left click mouse to view menu
	content.
	Implement the control operation.
	Modify checkbox or motion detection status.
	Click combo box to pop up drop down list

	In 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.
	A B C D E F G H I J K L M N O P Q R S T ⊔ U V W X Y Z ← U V W X Y Z ←
	In numeral input mode: $_$ stands for clear and \leftarrow stands for deleting the previous numeral.
	When input special sign, you can click corresponding numeral in the front panel to input. For example, click numeral 1 you can input"/", or you can click the numeral in the on-screen keyboard directly.
	1 / 2 : 3 . 4 ? 5 - 6 _ 7 @ 8 # 9 % 0 & _ ←
Double left	Implement special control operation such as double click one item in the file
click mouse	list 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 mouse	In real-time monitor mode, pops up shortcut menu: one-window, four-window, nine-window and sixteen-window, Pan/Tilt/Zoom, color setting, search, record, alarm input, alarm output, main menu. Among which, Pan/Tilt/Zoom and color setting applies for current selected channel. If you are in multiple-window mode, system automatically switches to the corresponding channel. View 1 View 1 View 4 Pan/Tilt/Zoom Color Setting Search Record Alarm Output Alarm Input Main Menu
Droco	Exit current menu without saving the modification.
Press middle	In numeral input box: Increase or decrease numeral value. Switch the items in the check box.
button	Page up or page down
Move	Select current control or move control
mouse Drag mouse	Select motion detection zone
	Select privacy mask zone.

2.6 Virtual Keyboard & Front Panel

2.6.1 Virtual Keyboard

The system supports two input methods: numeral input and English character (small and capitalized) input.

Move the cursor to the text column, the text is shown as blue, input button pops up on the right. Click that button to switch between numeral input and English input (capitalized and small), Use > or < to shift between small character and capitalized character.

2.6.2 Front Panel

Move the cursor to the text column. Click Fn key and use direction keys to select number you wanted. Please click enter button to input.

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 on the warranty card (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 Real 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 CF Card

3.3.1 Installation

The unit you received has no CF card. You need to purchase and then follow the steps listed below to install.

1) Unlock the CF card lock. Please insert the key to the hole and then turn clockwise to open the lock. See Figure 3-1.Please follow the arrowhead of the beeline to turn the plastic handspike.



Figure 3-1

2) Install CF card. Now you can see an interface shown as in Figure 3-2. Please follow the arrowhead to insert the CF card to the slot.



Figure 3-2

3) Lock CF card. Now you can see an interface is shown as below after you firmly inserted the CF card. Please follow the direction arrow in Figure 3-3 to push the plastic handspike and then lock the CF card.



Figure 3-3

3.3.2 Remove

The rear panel is shown as below after you installed the CF card.

1) Unlock CF card. Please insert the key to the hole and the turn clockwise to open the lock. Please follow the arrowhead in Figure 3-4 to push the handspike.



Figure 3-4

2) Press down the CF card case and push the handspike down. Use the screwdriver to push the CF card slot in Figure 3-5.



Figure 3-5

3) Push the CF card button and then you can see the card pops up. Please follow the arrowhead in Figure 3-8 to remove the CF card.



Figure 3-6

4) After you removed the CF card, please push the plastic handspike following the arrowhead in Figure 3-7. Turn the key counter clock wise to lock the CF card.



Figure 3-7

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 equipments operation such as cameras.

3.5 Connecting Video Input and Output Devices

3.5.1 Connecting Video Input

The video input interface is BNC. The input video format includes: PAL/NTSC BNC (1.0V_{P-P}, $.75\Omega$.

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.....

3.5.2 Connecting Video Output

Video output includes a BNC(PAL/NTSC BNC (1.0VP- P, 75Ω) output and a VGA output. System supports BNC and VGA output at the same time. See _____Figure 3-2.

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.

3.6 Connecting Audio Input & Output, Bidirectional Audio

3.6.1 Audio Input

These series products adopt BNC port.

Due to high impedance of audio input, please use active sound pick-up. See Figure 3-8. Audio transmission is similar to video transmission. Try to avoid interference, dry joint, loose contact and it shall be away from high tension current.

The 4-pin aviation-level port is shown as below. It is to input the audio and video.



Figure 3-8

The audio input cable is shown as in Figure 3-9. Please use this cable when your camera is the general BNC port.



Figure 3-9

Please refer to the following sheet for detailed information.

Audio/Video input cable (Aviation port 4p male port)				
Port	Color and Definition			
1	Yellow BNC male port (Video input)			
2	White BNC male port (Audio input)			
3	DC power male socket external is negative and internal is positive (Camera power output)			
4	DC power male socket external is negative and internal is positive (Camera power output)			

3.6.2 Audio Output

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

If the sound box and the pick-up cannot be separated spatially, it is easy to arouse squeaking. In this case you can adopt the following measures:

- Use better sound pick-up with better directing property.
- Reduce the volume of the sound box.
- Using more sound-absorbing materials in decoration can reduce voice echo and improve acoustics environment.

• Adjust the layout to reduce happening of the squeaking. Please refer to Figure 3-10. It is for audio and video output.



Figure 3-10

Audio/video output cable is shown as below. See Figure 3-11. You can use it when your monitor port is general BNC port.



Figure 3-11

Please refer to the following sheet for detailed information.

Audio/Video Output Cable (Aviation-level port 4p male socket)			
Socket	Color and Definition		
1	Yellow BNC male port (Video input)		
2	White BNC male port (Audio input)		

3.7 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 6V-36V voltage signal alarm input.

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

2. Alarm output

The alarm output port should not be connected to high power load directly (It shall be less than 1A) 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.

3. How to connect PTZ decoder

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.

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

Improper grounding may result in chip damage.

3.7.1 Alarm Input and Output Details

Alarm input and output interface is shown as in Figure 3-12. **Please note the alarm input interface definition is pre-defined.**



Figure 3-12

Please refer to the following sheet for detailed information.

SN	Function		
1	Alarm input 1(White cable)		
	Connect to emergency button alarm.		
2	Alarm input 2(White cable)		
	Connect to front door alarm.		
3	Alarm input 3(White cable)		
	Connect to back door alarm.		
4	Alarm input 4(White cable)		
	Connect to the left-turn alarm.		
5	Alarm input 5(White cable)		
	Connect to right-turn alarm.		
6	Alarm input 6(White cable)		
	Connect to brake alarm.		
7	Alarm input 7(White cable)		
	Connect to running status alarm (Running/stop)		
8	Alarm ground cable (Purple cable)		
9/10	NO output 1 (Yellow cable)		
11/12	NO output 2 (Yellow cable)		

3.7.2 Alarm Input Port

Please refer to the following sheet for more information. See Figure 3-13.

- Normal open or Normal close type.
- Please parallel connect COM end and GND end of the alarm detector (Provide external power to the alarm detector).

- Please parallel connect the Ground of the DVR and the ground of the alarm detector.
- Please connect the NC port of the alarm sensor to the DVR alarm input(ALARM)
- Use the same ground with that of DVR if you use external power to the alarm device.



Figure 3-13

3.7.3 Alarm Output Port

- 2-way relay alarm output (NO contact). Provide external power to external alarm device.
- To avoid overloading, please read the following relay parameters sheet carefully.

Model:	B3GA4.5Z	
Material of the touch	Silver	
Rating	Rated switch capacity	30VDC 1A, 125VAC 0.3A
(Resistance Load)	Maximum switch power	62.5VA 30W
LUAU	Maximum switch voltage	250VAC, 220VDC
	Maximum switch currency	1A
Insulation	Between touches with same polarity	1000VAC 1minute
	Between touches with different polarity	1000VAC 1minute
	Between touch and winding	1000VAC 1minute
Surge voltage	Between touches with same polarity	1500VAC (10×160us)
Length of open time	3ms max	
Length of close time	3ms max	
Longevity	Mechanical	50×106 times (3Hz)
	Electrical	100×103 MIN 1A 30VDC(0.5Hz) 100×103 MIN 0.3A 125VDC(0.5Hz)
Temperature	-40 ℃ ~+85 ℃	

Relay Specification

3.8 RS232

You can connect the DVR with POS or Keyboard through RS232.

With POS system, the DVR can communicate through RS232 and network. For the POS system, the DVR can integrate the text content and even search the record through the info.

The series DVR also support NKB operation. You can operate the DVR from the keyboard controls instead of using the control pad on the front panel of the unit.

To connect a NKB keyboard to the DVR:

1. Assemble the KBD keyboard according to the instructions in its accompanying installation manual.

2. Connect the KBD keyboard into one of the RS232 ports on the DVR or through network.

3.9 RS485

When the DVR receives a camera control command, it transmits that command up the coaxial cable to the PTZ device. RS485 is a single-direction protocol; the PTZ device can't return any data to the unit. To enable the operation, connect the PTZ device to the RS485 (A,B) input on the DVR. See Figure 3-14.

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

To connect PTZ devices to the DVR:

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



Figure 3-14

4 Overview of Navigation and Controls

4.1 Login, Logout & Main Menu

4.1.1 Login

Before you boot up the device, please make sure the CF card locks. You can see the CF card lock indication light is on.

Turn the key to ACC, you can see power indication light becomes on and DVR boots up (DVR boots up might take several seconds). The buzzer beeps once when during the boot up process. After booted up, system is in multiple-window mode and schedule record status. The record indication light becomes on too if the device is in the record period.

Click Enter or left click mouse, you can see the login interface. See _____Figure

4-1. System consists of four accounts:

- Username: admin. Password: admin. (administrator, local and network)
- Username: 888888. Password: 888888. (Local administrator, can not login the Web to operate.)
- Username: 666666. Passwords: 666666(Lower authority user who can only monitor, playback, backup and etc.)
- Username: default. Password: default(hidden user)

You can use remote control or the front panel to input. Or you can click 123 to switch between

numeral, English character (small/capitalized) and denotation.

Note:

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

Within 30 minutes, three times login failure will result in system alarm and five times login failure will result in account lock!

B	SYSTEM LOGIN				
	User Name	88	888	38	
	Password				123
		1	2	3	
		4	5	6	
	ОК	7	8	9	ncel
		0			



4.1.2 Main Menu

After you logged in, the system main menu is shown as below. See _____Figure 4-2. There are total six icons: search, information, setting, backup, advanced and shutdown. You can move the cursor to highlight the icon, and then double click mouse to enter the submenu.



Figure 4-2

4.1.3 Logout

There are two ways for you to log out.

One is from menu option:

In the main menu, click shutdown button, you can see an interface is shown as below. See _____Figure 4-3.

	SHUTDO	WN
Logou	t menu user	
Password after logo		e-enter the menu
	ок	Cancel





Figure 4-4

In the default setup, the device will automatically run for another 30 minutes and then shuts down after the ACC power is disconnected.

The ACC delay value ranges from 0 to 255(Unit: minute). System can delay shutting down for the specified time and then turn off (Main menu->Advanced->Auto maintenance).

4.1.4 Auto Resume after Power Failure

The system can automatically backup video and resume previous working status after power failure.

4.1.5 Replace Button Battery

Please make sure to use the same battery model if possible.

We recommend replace battery regularly (such as one-year) to guarantee system time accuracy.

Important!

Before replacement, please save the system setup, otherwise, you may lose the data completely!

4.2 Manual Record

4.2.1 Live Viewing

After you logged in, the system is in live viewing mode. You can see system date, time and channel name. If you want to change system date and time, you can refer to general settings (Main Menu->Setting->General). If you want to modify the channel name, please refer to the display settings (Main Menu->Setting->Display)

In live view window, you can see system date, time and channel name.

In multiple-window display mode, double click one window or click the corresponding channel number in the remote control, you can go to full-screen display mode. In one-window display, double click the vide window or click the multiple-channel preview button in the remote control you can go back to multiple-window display mode.

Note: Please refer to the following sheet for channel status. Description status stands for opening switch

function, 🙆 stands for closing switch function.

1	00	Recording status	3	?	Video loss
2		Motion detection	4		Camera lock

4.2.2 Manual record

Note:

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

4.2.2.1 Manual record menu

There are two ways for you to go to manual record menu.

- Right click mouse or in the main menu, Advanced->Manual Record.
- In live viewing mode, click record button in the front panel or record button in the remote control.

Manual record menu is shown as inFigure 4-5...

4.2.2.2 Basic operation

There are three statuses: schedule/manual/stop. Please highlight icon" \bigcirc " 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.

Record Mode	All	1234
chedule		$\bullet \bullet \circ \circ$
lanual		0000
itop		

Figure 4-5

4.2.2.3 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. SeeFigure 4-6.

MANUAL RECORD		
Record Mode	All	1234
Schedule		$\bullet \bullet \circ \circ$
Manual		$\circ \circ \bullet \bullet$
Stop		



4.2.2.4 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 4-7.

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.

Record Mode	All	1234
Schedule	٠	
Manual		
Stop		

Figure 4-7

• All channel manual record

Please highlight "ALL" after "Manual." See _____Figure 4-8.

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 4-8

4.2.2.5 Stop all channel recording

Please highlight "ALL" after "Stop". See _____Figure 4-9.

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

MANUAL RECORD							
Record Mode	All	1234					
Schedule							
Manual							
Stop	۲						
Stop							
	K)	Cancel					



4.3 Search & Playback

4.3.1 Search Menu

Click search button in the main menu, search interface is shown as below. See Figure 4-10. Usually there are three file types:

- R: Regular recording file.
- A: External alarm recording file.
- M: Motion detection recording file



Figure 4-10

Please refer to the following sheet for more information.

Serial Number	Function
1	Play
2	Backward
3	Stop
4	Slow play
5	Fast play
6	Previous frame
7	Next frame
8	Volume
9	Previous file
10	Next channel
11	Next file
12	Previous channel
13	Search
14	Backup

4.3.2 Basic Operation

4.3.2.1 Playback

There are various search modes: video type, channel number or time. The system can max display 128 files in one screen. You can use page up/down button to view if there are more than one page.

Select the file name and double click mouse (or click enter button), you can view file content. 4.3.2.2 Playback Mode

There are two playback modes: 4-ch and all-channel. In 4-ch playback mode, you can select the 1/2/3/4-ch playback according to your requirement. In all-channel mode, system can playback in full channels. Please note the 4-ch has no all-channel playback mode. 4.3.2.3 Accurate playback

Input time (h/m/s) in the time column and then click playback button, system can operate accurate playback.

4.3.2.4 Synchronized playback function when playback

During playback process, click numeral key, system can switch to the corresponding channel video of the same time.

4.3.2.5 Digital zoom

When the system is in playback mode, drag your mouse in the screen to select a section and then left click mouse to realize digital zoom. You can right click mouse to exit.

4.3.2.6 File backup

System supports backup operation during search. You can draw a $\sqrt{}$ before file name (multiple choices). Then click backup button (Button 14 in Figure 4-11).

4.3.2.7 Slow playback and fast playback

Please refer to the following sheet for slow play and fast playback function.

Button	Illustration	Remarks
Fast play button	In playback mode, click this button to switch between various fast play modes such as fast play 1,fast play 2 and more.	Frame rate may vary due to different versions.
Slow play button ►	In playback mode, click this button to switch between various slow play modes such as slow play 1 or slow play 2.	
Play/Pause► II	In slow playback mode, click this button to switch between play/pause modes.	
Previous/next	In playback mode, you can click ◀ and ▶I to view previous or next video in current channel.	

4.3.2.8 Backward playback and frame by frame playback

Button	Illustration	Remarks
Backward play: II ⁴ in playback interface.	In normal playback mode, left click backward play button ◀, system begins backward playback. Double click backward play button again, system goes to pause mode.	When system is in backward play or frame by frame playback mode, you can click play
Manual playback frame by frame.	Click pause button in normal playback mode, you can use ◀ and ► to view frame by frame.	button►/□ to go to normal playback.

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.

4.3.3 Calendar

Click calendar icon in Figure 4-10, system pops up a calendar for your reference.

The highlighted date means there are record files in that day. You can click blue date to view file list.

In _____figure 4-11, there are video files in June th and 14th. Double click the date to view its 13

file list.

<	June	э	-	2007		>
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					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

Figure 4-11

4.4 Schedule

After system booted up, it is in default 24-hour regular mode. You can set record type and time in schedule interface.

4.4.1 hedule Menu

In the main menu, from setting to schedule, you can go to schedule menu. See _____Figure 4-12.

- 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 0 to 30 seconds depending on the bit stream. It may not reach the pre-record time if the bit stream is too huge.
- 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 card as redundant. (Main menu->Advanced->HDD Management). Please refer to chapter 4.4.1.2 for detailed information. Please note, for the product of only one card, it does not support the redundancy function.
- Snapshot: You can enable this function to snapshoot image when alarm occurs.
- Record types: There are four types: regular, motion detection (MD), Alarm, MD & alarm.

Please highlight icon is 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, yellow color stands for motion detection and red color stands for alarm recording. The white means the MD and alarm record is valid. Once you have set to record when the MD and alarm occurs, system will not record neither motion detect occurs nor the alarm occurs.

Channel	1 • F	PreRecord 4	sec. R	edundan	icy 🚺 Sr	napshot 🔝
Week Day	Mon -	Record Type	Regular	MD	Alarm	MD&Alam
Period 1	00:00	-24 :00				
Period 2	00:00	-24 :00				
Period 3	00:00	-24 :00				
Period 4	00:00	-24 :00				
Period 5	00:00	-24 :00				
Period 6	00:00	-24 :00				
	Regular	MD	📕 Alai	rm	MD&	Alarm
0 3	6	9	12	15	18	21

Figure 4-12

4.4.1.1 Quick Setup

This function allows you to copy one channel setup to another. After setting in channel 1, you can click paste button and turn to channel 2 and then click copy button. You can finish setting for one channel and then click save button or you can finish all setup and then click save button to memorize all the settings.

4.4.1.2 Redundancy

Please note, for the product of only one CF card, it does not support the redundancy function.

Redundancy function allows you to memorize record file in several cards. When there is file damage occurred in one card there is a spare one in the other card. You can use this function to maintain data reliability and safety.

In the main menu, from Setting to Schedule, you can highlight redundancy button to enable this function. .

In the main menu, from Advanced to HDD management, you can set one or more disk(s) as redundant. You can select from the dropdown list. See Figure 4-13. System auto overwrites old files once hard disk is full.

Please note only read/write disk or read-only disk can backup file and support file search function, so you need to set at least one read-write disk otherwise you can not record video. **Note**

About redundancy setup:

- If current channel is not recording, current setup gets activated when the channel begin recording the next time.
- If current channel is recording now, current setup will get activated right away, the current file will be packet and form a file, then system begins recording as you have just set.

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



Figure 4-13

Playback or search in the redundant card.

There are two ways for you to playback or search in the redundant disk.

- Set redundant disk(s) as read-only disk or read-write disk (Main menu->Advanced->HDD management). See Figure 4-13. System needs to reboot to get setup activated. Now you can search or playback file in redundant disk.
- Dismantle the disk and play it in another PC.

4.4.1.3 Quick Setup

This function allows you to copy one channel setup to another. After setting in channel 1, you can click paste button and turn to channel 2 and then click copy button. You can finish setting for one channel and then click save button or you can finish all setup and then click save button to memorize all the settings.

4.4.2 Snapshot

4.4.2.1 Schedule Snapshot

In Encode interface, click snapshot button to input snapshot mode, size, quality and frequency.

In General interface please input upload interval.

In Schedule interface, please enable snapshot function.

Please refer to the following figure for detailed information. See Figure 4-14.

ENCODE						1		
Channe	el	1	-					
Compr	ession	H 264			Strea	m1 🚽	_	
Resolu	N N	_	SNAPSH		_		_	
Frame	Mode		Timing		-			
Bit Rate	Image Size		D1		-			
	lmage Qua	lity	4		-			
Bit Rate	Snapshot F	requency	1 SP2L		-			
Refere								
Audio/	Audio/ OK Cancel							
Coj	ру Р	aste	Default		S	ave) Ca	incel



Channel	1 -	PreRecord 4	sec. R	tedundar	ncy 📃 S	Snapshot	
Week Day	Mon	 Record Type 	Regular	MD	Alam	MD&AL	arm
Period 1	00:00	-24 :00					
Period 2	00:00	-24 :00					
Period 3	00:00	-24 :00					
Period 4	00:00	-24 :00					
Period 5	00:00	-24 :00					
Period 6	00:00	-24 :00					
	Regular	MD	📕 Ala	rm	MD-	&Alarm	
0 3	6	9	12	15	18	21	2

Figure 4-14

4.4.2.2 Activation Snapshot

Please follow the steps listed below to enable the activation snapshot function. After you enabled this function, system can snapshot when the corresponding alarm occurred.

- In Encode interface, click snapshot button to input snapshot mode, size, quality and frequency.
- In General interface please input upload interval.
- In Detect interface please enable snapshot function for specified channels. Or in alarm interface please enable snapshot function for specified channels.

Please refer to the following figure for detailed information. See Figure 4-15.

ENCODE		(\mathfrak{X})	DETE	ст	_
Channel 1 Compression H 264 Stream1 Resolution SNAPSHOT		Event Typ Enable Region	e Motion Detect	Channel 1 Sensitivity 3	•
Frame Bit Rate Image Size Image Quality Bit Rate Refere Audior CK Cancel (SNAPSHOT)		Period	Set Dut 1 2 Alessage Alarm upload 1 Channel 2 34 Select 1 2 1	Anti-dither 0 Latch 10 Send Email Delay 10	sec.
Copy Paste Default Save	Cancel	Сору	Paste Default	Save	Cancel
Eve Ena	nt Type Local Alarr		rmal Open V		
	larm Out 12 how Message Alarm up lecord Channel 1234		sec.		
	TZ Activation Select		sec.		
	Copy Paste	Default Save) Cancel		

Figure 4-15

4.4.2.3 Priority

Please note the activation snapshot has the higher priority than schedule snapshot. If you have enabled these two types at the same time, system can activate the activation snapshot when alarm occurs, and otherwise system just operates the schedule snapshot.

4.4.3 Image FTP

In Network interface, you can set FTP server information. Please enable FTP function and then click save button. See Figure 4-16.

Please boot up corresponding FTP server.

Please enable schedule snapshot (Chapter 4.4.2.1) or activation snapshot (Chapter 4.4.2.2) first, now system can upload the image file to the FTP server.



Figure 4-16

4.5 Detect

4.5.1 Go to Detect Menu

In the main menu, from Setting to Detect, you can see motion detect interface. See Figure 4-16. There are three detection types: motion detection, video loss, camera masking.

- There is no region setup item and sensitivity setup item in video loss and camera masking type.
- You can see motion detect symbol in corresponding preview channel when a motion detect alarm occurs.
- Please use Aux button to help when you use the mouse to drag the motion detect region. Right click the mouse to exit current region setup interface. Please click the Save button to save current setup.

4.5.2 Motion Detect

Detection menu is shown as below. See ____Figure 4-17.

- Event type: from the dropdown list you can select motion detection type.
- Channel: select the channel to activate recording function once 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)
- Latch: when motion detection complete, system auto delays detecting for a specified time. The value ranges from 1-300(Unit: second)
- Region: Click select button, the interface is shown as in _____Figure 4-18Here you can set motion detection zone. There are 396(PAL)/330(NTSC) small zones. The green zone is current cursor position. Grey zone is the motion detection zone. Black zone is the disarmed zone. You can click Fn button to switch between the arm mode and disarm mode. In arm mode, you can click the direction buttons to move the green rectangle to set the motion

detection zone. After you completed the setup, please click ENTER button to exit current setup. Do remember click save button to save current setup. If you click ESC button to exit the region setup interface system will not save your zone setup.

- Sensitivity: System supports 6 levels. The sixth level has the highest sensitivity.
- 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 alarm occurs.
- MMS: Highlight the icon to enable this function. System can send out a message to the user once an alarm occurs.
- Period: Click set button, you can see an interface is shown as in _____Figure 4-19.. Here you can set for business day and non-business day. In _____Figure 4-19., click set button, you can see an interface is shown as in _____Figure 4-20. Here you can set your own setup for business day and non-business day.
- Anti-dither: Here you can set anti-dither time. If you input 10 seconds here, then the motion detect signal will last for 10 seconds and then disappear. Please note, this function is for motion detect only. It does not support camera masking and video loss.
- Alarm output: when alarm occurred, system enables peripheral alarm devices.
- Tour: Here you can enable tour function when alarm occurs. It is a one-window tour. Please go to chapter 5.3.9 Display for tour interval setup.
- 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.

Note:

In motion detection mode, you can not use copy/paste to set channel setup since the video in each channel may not be the same.

In _____Figure 4-18, you can left click mouse and then drag it to set a region for motion detection. Click Fn to switch between arm/withdraw motion detection. After setting, click enter button to exit.

	DET	ECT	
Event Type Enable	Motion Detect 🔻	Channel	1
Period	Set	Latch	10 sec.
Show Message	Alarm Upload	Send Email	
PTZ Activation	Select 1234 1234	Delay	10 sec.
Buzzer	aste) (Default		Save Cancel

Figure 4-17



Figure 4-18



Figure 4-19





4.5.3 Video Loss

In _____Figure 4-17., select video loss from the type list. You can see the interface is shown as in _____Figure 4-21.This function allows you to be informed when video loss phenomenon occurred. You can enable alarm output channel and then enable show message function. Please refer to chapter 4.5.2 motion detection for detailed information.

8	DET	ECT	
Event Type Enable	Video Loss 🔻	Channel	1
Period Alarm Out Show Message Record Channel		Latch Send Email	
PTZ Activation	Select 1234 1234	Delay	10 sec.
Copy P	aste Defaul		Save Cancel

Figure 4-21

4.5.4 Camera Masking

When someone viciously masks lens, the system can alert you to guarantee video continuity. Camera masking interface is shown as in _____Figure 4-22.

Please refer to chapter 4.5.2 motion detection 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 camera masking mode.

8	DET	ECT	
Event Type Enable	Camera Maski 🔻	Channel	1
Period Alarm Out Show Message Record Channel	Set 12 Alarm Upload 1234		10sec.
 PTZ Activation Tour Snapshot Buzzer Copy Patrix 	Select 1234 1234 1234 aste Default	Delay	10 sec. Save Cancel

Figure 4-22

4.6 Alarm Setup and Alarm Activation

Before operation, please make sure you have properly connected alarm devices such as buzzer.

4.6.1 Go to alarm setup interface

In the main menu, from Setting to Alarm, you can see alarm setup interface. See _____Figure 4-23.

4.6.2 Alarm setup

Alarm interface is shown as below. See ____Figure 4-23.

- Alarm in: Here is for you to select channel number.
- Event type: There are two types. One is local input and the other is network input.
- Type: There are two modes: normal open/ normal close. In normal open mode, system can generate an alarm when it connects to the high level. In normal close mode, system is always in the alarm status. The alarm ends when it connected to the high level.
- Overlay: Highlight the icon to select this function. System can overlay the vehicle running status it gets. Please note this function is for alarm input channel 2 to channel 6.
 - Information: System can get corresponding vehicle information via the alarm input and output port. It includes: front door, back door, left-turn light, right-turn light, brake light, running status (speed measurement).
 - Overlay: It has two modes: Mode 1: After you enable the corresponding setup, it can overlay the character information to the OSD. Mode 2: After you enable the corresponding setup, it can overlay the character information to the recorded file so that you can view when you search or playback.
- Period: Click set button, you can see an interface is shown as in _____Figure 4-24. Here you can set for business day and non-business day. In _____Figure 4-24, click set button, you can see an interface is shown as in _____Figure 4-25. Here you can set your own setup for business day and non-business day.
- Anti-dither: Here you can set anti-dither time.
- 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 alarm occurs.
- MMS: Highlight the icon to enable this function. System can send out a message to the user once an alarm occurs.
- Record channel: you can select proper channel to record alarm video (Multiple choices). At the same time you need to set alarm record in schedule interface (Main Menu->Setting->Schedule) and select schedule record in manual record interface (Main Menu->Advance->Manual Record).
- Latch: Here is for you to set proper delay duration. Value ranges from 10 to 300 seconds. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
- Tour: Here you can enable tour function when alarm occurs. It is a one-window tour: Please go to chapter 5.3.9 Display for tour interval setup.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs. For snapshot operation, please refer to chapter 4.4.2.

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

ALARM								
Event Type	Local Alarm 🔻	Alarm In	2 🔹					
Enable		Туре	Normal Open -					
OVERLAY								
Period	(Set	Anti-dither	5	sec.				
Alarm Out	12	Latch	10	sec.				
Show Message		Send Email						
Record Channel	1234							
PTZ Activation	Select	Delay	10	sec.				
Tour	1234							
Snapshot	1234							
Buzzer								
Copy Pa	aste Default		Save Canco	el				

Figure 4-23



Figure 4-24



Figure 4-25

4.7 Backup

DVR support USB device backup and network download. Here we introduce USB backup first. You can refer to Chapter 7 Web Client Operation for network download backup operation.

4.7.1 Detect Device

Click backup button, you can see an interface is shown as in _____Figure 4-26.Here is for you to view devices information.

You can view backup device name and its total space and free space. The device includes USB burner, flash disk (FAT32 format), SD card and portable HDD.

>0	BACKUP								
	Name(Type)	Left space/Total space	Device Statu						
1	Dev(USB DISK)	1.00 GB/1.00 GB	Ready						
2	Dev(USB DVD/CD-RW)	1.00 GB/1.00 GB	Ready						
3	Dev(USB DVD/CD-RW)	1.00 GB/1.00 GB	Ready						
4	Sda(SATA DISK)	0.00 GB/931.51 GB	Ready						
►! P	age Up 14 Page Down Fn Si	elect/Cancel backup devi	ice or file.						
		elect/Cancel backup devi ase) (Stop)	ice or file.						
			ice or file.						
			ice or file.						

Figure 4-26

4.7.1 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

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

Click backup button, you can backup selected files. There is a process bar for you reference. When the system completes backup, you can see a dialogue box prompting successful backup.

	Ba	ackup	
Selected Device	Dev(USB DISK)		
Туре	All 🔻 (Channel 1 🔹	
Start Time	2006 - 12 - 0	01 00:00:00	Remove
End Time	3 2007 - 03 - 0	08 13:18:55	Add
	6-12-26 14:45:50 (6-12-26 14:46:01 (16-12-26 14:45:58 7178 16-12-26 14:48:44 12493	
		Fn Select/Cancel backup d129.00 MB/1.00 GB	device or file. Backup

Figure 4-27

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. See ______Figure 4-28.

Type Start Time	All •	Channel 1	Remove
End Time		- 08 13 : 18 : 55	Add
1 🗸 11	₹ 06-12-26 14:45:50	End Time Size(KB 06-12-26 14:45:58 71	78
2 ⊻ 11	R Ub-12-26 14:46:U1	06-12-26 14:48:44 124	930

Figure 4-28

The file name format usually is: SN_CH+channel number+time Y+M+D+H+M+S. In the file name, the YDM format is the same as you set in general interface. (Main Menu ->Setting - >General).File extension name is .dav. You can visit our website to view listed CD-ROM brand.

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).

4.7.2 One-button Backup

Please connect the backup device to the USB port in the front panel. Click the F1 button in the remote control, the DVR can automatically backup the record file(s) of current day to the backup device.

4.8 PTZ Control and Color Setup

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

4.8.1 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.

4.8.2 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 4-29. 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 bits: select corresponding data bits. Default value is 8.
- Stop bits: select corresponding stop bits. Default value is 1.
- Parity: there are three options: odd/even/none. Default setup is none.

1		PAN/TILT/ZOOM
Channel	1	•
Protocol	PELCOD	
Address	1	
Baudrate	115200	
Data Bits	8	
Stop Bits	1	
Parity	None	
Сору	Paste	Default Save Cancel

Figure 4-29

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). The interface is shown as in ______Figure 4-30.



Figure 4-30

Click Pan/Tilt/Zoom, the interface is shown as below. See _____Figure 4-31. Here you can set the following items:

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

Please click icon i and it to adjust zoom, focus and iris.

The corresponding item is grey if current unit does not support this function.



Figure 4-31

In _____Figure 4-31, please click direction arrows (See _____Figure 4-32) to adjust PTZ position. There are total 8 direction arrows. You can use the remote control to set.



Figure 4-32

4.8.3 3D Intelligent Positioning Key

In the middle of the eight direction arrows, there is a 3D intelligent positioning key. See "Figure 4-32. Please make sure your protocol supports this function and you need to use mouse to control.

Click this key, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size. The dragged zone supports 4X to 16X speeds. It can realize PTZ automatically. The smaller zone you dragged, the higher the speed.



Figure 4-33

4.9 Preset/ Patrol/Pattern/Scan

In _____Figure 4-31, please click the "set" button. The interface is shown as below. See ______

Here you can set the following items:

- Preset
- Tour
- Pattern
- Border



Figure 4-34

In _____Figure 4-31, click page switch button, the interface is shown as in _____Figure 4-35. Here you can activate the following functions:

- Preset
- Tour
- Pattern
- Auto scan
- Auto pan

- Flip
- Reset
- Page switch



Figure 4-35

Note:

- Preset, tour and pattern all need the value to be the control parameter. You can define it as you require.
- You need to refer to your speed dome user's manual for Aux definition. In some cases, it can be used for special process.

4.9.1 Preset Setup

In _____Figure 4-31, use eight direction arrows to adjust camera to the proper position.

InFigure 4-34, click preset button and input preset number. The interface is shown as in Figure 4-36.

Now you can add this preset to one tour.



Figure 4-36

4.9.2 Activate Preset

InFigure 4-35., please input preset number in the No. blank, and click preset button.

4.9.3 Patrol setup (Tour Setup)

In _____Figure 4-34, click patrol button. The interface is shown as in _____Figure 4-37.Input preset number and add this preset to a patrol (tour). For each patrol (tour), you can input max 80 presets.

PA	N/TILT/ZOOM	X
Function Preset Patrol Pattern Border	Preset 1 Patrol No. 0 Add Preset Del Preset	ĸ

Figure 4-37

4.9.4 Activate Patrol (tour)

In _____Figure 4-34, input patrol (tour) number in the No. blank and click patrol button

4.9.5 Pattern Setup

In ______ Figure 4-34, click pattern button and then click "begin" button. The interface is shown as in

Figure 4-38. Then you can go to Figure 4-33. to modify zoom, focus, and iris.

Go back to _____ Figure 4-38. and click "end" button. You can memorize all these operations as pattern 1.



Figure 4-38

4.9.6 Activate Pattern Function

InFigure 4-35, input mode value in the No. blank, and click pattern button.

4.9.7 Auto Scan Setup

In _____Figure 4-34, click border button. The interface is shown as in _____Figure 4-

39. Please go to Figure 4-31, use direction arrows to select camera left limit

button Repeat the above procedures to set right limit.



Figure 4-39

4.9.8 Activate Auto Scan

In _____Figure 4-35., click "Auto Scan" button, the system begins auto scan. Correspondingly, the auto scan button becomes Stop button. Click stop button to terminate scan operation.

4.10 Flip

In _____Figure 4-35., click page switch button, you can see an interface is shown as below. See _____Figure 4-40.. Here you can set auxiliary function. The aux value has relation ship with the Aux button of the decoder.

Click page switch button again, system goes back to _____Figure 4-31.



Figure 4-40

5 Understanding of Menu Operations and Controls

5.1 Menu Tree

This series DVR menu tree is shown as below.



5.2 Main Menu

After you logged in, the system main menu is shown as below. See Figure 5-1.. There are total six icons: search, Information, setting, backup, advanced and shutdown. Move the cursor to highlight the icon, then double click mouse to enter the sub-menu.



Figure 5-1

5.3 Setting

In main menu, highlight setting icon and double click mouse. System setting interface is shown as below. See Figure 5-2.



Figure 5-2

5.3.1 General

General setting includes the following items. See Figure 5-3.

- System time: Here is for you to set system time
- Date format: There are three types: YYYY-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 5-4. Here you can set start time and end time by setting corresponding week setup. In Figure 5-4, enable date button, you can see an interface is shown as in Figure 5-5. 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 disk is full. There are two options: stop recording or rewrite. If current working card is overwritten or the current card is full while

the next card is no empty, then system stops recording, If the current card is full and then next card is not empty, then system overwrites the previous files.

- Pack duration: Here is for you to specify record duration. The value ranges from 60 to 120 minutes. Default value is 60 minutes.
- DVR No: Here you can input plate number.
- Video standard: There are two formats: NTSC and PAL.
- 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.

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.

	GENERAL
System Time	2008 - 11 - 04 15 : 38 : 34 Save
Date Format	YYYY MM DD 🔹 Snapshot 2 sec.
Date Separator	- 🔹 🗖 DST Set
Time Format	24-HOUR -
Language	ENGLISH
HDD Full	Overwrite
Pack Duration	60 min.
Video Standard	PAL
Auto Logout	10min.
DVR No. 1	
Default	Save Cancel







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

Figure 5-5

5.3.2 Encode

Please note encode setup has relationship with the hardware encode setup. You can set your self-defined setup only if it is in mode 3.

Encode setting includes the following items. See Figure 5-6.

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.
- Compression: System supports H.264.
- Resolution: System supports various resolutions, you can select from the dropdown list. For this model, main stream supports D1/CIF/QCIF. Please note the resolution may vary due to different channels. The extra stream supports QCIF/CIF.
- 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.
- Overlay: Click overlay button, you can see an interface is shown in Figure 5-7. 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.
- 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.
- ♦ Channel display: You can select system displays channel number or not when you playback.
- ♦ Car No. display: 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.

Please highlight icon loss to select the corresponding function.

		ENCODE
Channel	1	
Туре	Regular	
Compression	H.264 🔻	Extra Stream1 -
Resolution	CIF	
Frame Rate(FPS)	25 🔻	25 -
Bit Rate Type	CBR 🔻	CBR
Bit Rate(Kb/S)	640 🔻	160 🔻
Reference Bit Rate	160-896Kb/S	40-224Kb/S
Audio/Video		
	OVERLAY	
	SNAPSHOT	X
Copy P	'aste) (Default	Pre Step Next Step Cancel

Figure 5-6



Figure 5-7

5.3.3 Schedule

Please refer to chapter 4.4 schedule.

5.3.4 RS232

RS232 interface is shown as below. There are five items. See Figure 5-8.

- Function: There are various devices for you to select. Console is for serial port or min-end platform to upgrade program. Keyboard is for you to use special keyboard to control current device.
- 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 two values: 1/2.
- Parity: there are three choices: none/odd/even/space/mark.

System default setup is:

- Function: Console
- Baud rate:115200
- Data bit:8
- Stop bit:1
- Parity: None

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



Figure 5-8

5.3.5 Network

Here is for you to input network information. See Figure 5-9.

• IP address: Here you can input IP address.

- 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.
- UDP port: Default value is 37778.
- HTTP port: Default value is 80.
- Max connection: system support maximal 10 users. 0 means there is no connection limit.
- Preferred DNS server: DNS server IP address. Default setup is 8.8.8.8.
- Alternate DNS server: DNS server alternate address. Default setup is 8.8.4.4.
- 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.

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

đ	NETWORK
IP Address	192 · 168 · 1 · 108 DHCP
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 1 . 1
TCP Port	37777 HTTP Port 80
UDP Port	37778 Max Connection 10
Preferred DNS	8 . 8 . 8 . 8
Alternate DNS	8 . 8 . 4 . 4
	Transfer Mode Latency
	LAN Download
ADVANCED SE	ETTING
IP FILTER	Trusted Sites:0
🗌 NTP	NTPServer : 60
MULTICAST	239.255.42.42
Default	Save Cancel

Figure 5-9

5.3.5.1 Advanced Setup

Advanced setup interface is shown as in Figure 5-10 Please draw a circle to enable corresponding function and then double click current item to go to setup interface.

ADVANCED SETTING		
	Use the following DNS server address:	Γ
	Trusted Sites:0	
NTP	NTPServer : 10	
MULTICAST	239.255.42.42	

Figure 5-10

5.3.5.2 IP Filter

IP filter interface is shown as in Figure 5-11. You can add IP in the following list. The list supports max 64 IP addresses.

Please note after you enabled this function, only the IP listed below can access current DVR. If you disable this function, all IP addresses can access current DVR.

Ś	Ø				IF	' Fl	.TE	R			\times
F	Rest	rict	ed 7	Гур	e (T	rus	ted	Site	s	•	
	0	•	0		0	•	0		C	Add IP	\supset
ļ	_										
Γ	De	lete	∍ IP		Del	ete	aili				
				0	ЭК			Ca	nci	əl)	

Figure 5-11

5.3.5.3 Multiple Cast Setup

Multiple-cast setup interface is shown as in Figure 5-12.

	MCAST SET X		
IP Address	0.0.0.0		
Port	36666		
	OK Cancel		



Here you can set a multiple cast group. Please refer to the following sheet for detailed information.

IP multiple cast group address

-224.0.0.0-239.255.255.255

-"D" address space

- The higher four-bit of the first byte="1110"
- Reserved local multiple cast group address

-224.0.0.0-224.0.0.255

-TTL=1 When sending out telegraph

-For example

- 224.1.1.1 All systems in the sub-net
- 224.1.1.2 All routers in the sub-net
- 224.1.1.4 DVMRP router

224.1.1.5 OSPF router

224.0.0.13 PIMv2 router

Administrative scoped addressees

-239.0.0.0-239.255.255.255

-Private address space

- Like the single broadcast address of RFC1918
- Can not be used in Internet transmission
- Used for multiple cast broadcast in limited space.

Except the above mentioned addresses of special meaning, you can use other addresses. For example:

Multiple cast IP: 235.8.8.36

Multiple cast PORT: 3666.

After you logged in the Web, the Web can automatically get multiple cast address and add it to the multiple cast groups. You can enable real-time monitor function to view the view. Please note multiple cast function applies to special series only.

5.3.5.4 PPPoE

PPPoE interface is shown as in Figure 5-13.

Input "PPPoE name" and "PPPoE password" you get from your ISP (Internet service provider). Click save button, you need to restart to activate your configuration.

After rebooting, DVR will connect to internet automatically. The IP in the PPPoE is the DVR dynamic value. You can access this IP to visit the unit.

Enable PPPoE			
User Name	username		
Password	••••		
IP Address	0.0.0.0		
	OK Cancel		

Figure 5-13

5.3.5.5 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 5-14.

- 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.

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
Tokyo	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

	NTP
Server IP	NTPServer
Port	123
Time Zone	GMT+08:00 -
Update Period	10 min.
-	
	OK Cancel
,	

Figure 5-14

5.3.5.6 DDNS Setup

DDNS setup interface is shown as in Figure 5-15.

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 as below:

http://(DDNS server IP)/(virtual directory name)/webtest.htm

e.g.: http://10.6.2.85/DVR _DDNS/webtest.htm.)

Now you can open DDNSServer web search page.

	DDNS		
DDNS Type	CN99 DDNS 🔻 🔲 Enable		
Server IP	0.0.0.0		
Port	0		
Domain Name			
Host Name			
Password			
OK Cancel			

Figure 5-15

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

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

5.3.5.7 Email

Email interface is shown as in Figure 5-16. Please input sender mailbox SMTP server IP address, port, user name, and password and sender mailbox, interval. The title content supports English character and Arabic number. Max 32-digit data.

System max supports three addresses and SSL encryption mailbox.

The interval value ranges from 0 to 3600 second. 0 means there is no interval. Once you input interval here, when alarm (motion detection or abnormal event and etc) activates the email, system will not send out the email immediately when an alarm occurred, system just sends out the email regularly according to the interval you set here. This function is very useful when there is a lot of alarms to be processed which may result in the mail server overload.

	EMAIL
SMTP Server	10.6.1.16
Port	25
User Name	1
Password	•
Sender	dvr@163.com
Title	DVR ALERT
Receiver	atm@163.com
SSL Enable	
Event Interval	1s
	OK Cancel

Figure 5-16

5.3.5.8 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 5-17.

File Edit User View Window Help	>>
₩ × № • € @ % B € @	Account General Dir Access IP IP Access If UL/DL Rati H Access Group Files Files Files Files Files Files Files Files Files Files Files Files Files Files Files Files Files Files Files Files Files Files Files Files Fil
C < coda berver >> [bystein Administrator]	

Figure 5-17

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://10.10.7.7</u> and then test it can modify or delete folder or not. See Figure 5-18.

Interne	t Explorer	
? >	To log on to this 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.
		onymously
		Log On Cancel

Figure 5-18

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

In _____Figure 5-9, select FTP and then double click mouse. You can see the following interface. See Figure 5-19.

	FTP
Туре	Record FTP -
Server IP	0 · 0 · 0 · 0 Port 1024
Alternate IP	0 . 0 . 0 . 0
User Name	
Password	Anonymous
Remote Directory	File Length 0 M
Channel	 [1]
Weekday	Fri
Time Period 1	00:00 -24:00
Time Period 2	00 :00 -24 :00
	OK Cancel

Figure 5-19

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.

5.3.5.9 Alarm Centre

This interface is reserved for you to develop.

5.3.6 Alarm

Please refer to chapter 4.6 Alarm Setup and Activation.

5.3.7 Detect

Please refer to chapter 4.5 Detect.

5.3.8 Pan/Tilt/Zoom

The pan/tilt/zoom setup includes the following items. Please select channel first. See Figure 5-20.

- Protocol: Select corresponding PTZ protocol such as PELCOD.
- Address: input corresponding PTZ address.
- Baud rate: Select baud rate. The default value is 9600.
- Data bit: Select data bit. The default value is 8.
- Stop bit: Select stop bit. The default value is 1.
- Parity: The default value is none.

After completed all the setups please click save button, system goes back to the previous menu. For detailed setup, please refer to chapter 4.9 preset/patrol/pattern/scan.

1		PAN/TILT/ZOOM
Channel	1	7
Protocol	PELCOD	3
Address	1	
Baudrate	115200	
Data Bits	8	3
Stop Bits	1	3
Parity	None	3
Сору	Paste	Default Save Cancel

Figure 5-20

5.3.9 Display

Display setup interface is shown as below. See Figure 5-21.

- Transparency: Here is for you to adjust transparency. The value ranges from 128 to 255.
- Channel name: Here is for you to modify channel name. System max support 25-digit (The value may vary due to different series). Please note all your modification here only applies to DVR local end. You need to open web or client end to refresh 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: There are four options: 1280×1024, 1280×720, 1024×768,800×600(default).
 Please note system needs to reboot to active current setup.
- Enable tour: activate tour function.
- Interval: Input proper interval value here. The value ranges from 5-120 seconds. In tour

process, you can use mouse click to use the switch function. 🖸 Stands for opening switch

function, 🙆 stands for closing switch function.

- Motion tour type: System supports 1 window tour.
- Alarm tour type: System supports 1 window tour.

Please highlight icon III to select the corresponding function.

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

	DISP	PLAY	X
GUI			
Transparency Time Display CarNo. Display Display Mode		Channel Name Channel Display GPS Display	Modify
Enable Tour View 1 View 4	0 1 2 3 4 1	Interval	5 sec.
Motion Tour Type	View 1	Alarm Tour Type	

Figure 5-21

In Figure 5-21, click modify button after channel. You can see an interface is shown as in Figure 5-22. 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.

	Channel Name			
CAM 1	CH1	CAM 2	CH2	
CAM 3	CH3	CAM 4	CH4	
Default		Save	Cancel	

Figure 5-22

In tour mode, you can see the following interface. On the right corner, right click mouse or click shift button, you can control the tour. There are two icons: Stands for enabling window switch and Stands for enabling window function. See Figure 5-23.



Figure 5-23

5.3.10 Default

Click default icon, system pops up a dialogue box. You can highlight et a restore default factory setup. See Figure 5-24.

- Select all
- General
- Encode
- Schedule
- RS232
- Network
- Alarm
- Detect
- Pan/tilt/zoom
- Display
- Channel name

Please highlight icon loss to select the corresponding function.

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

Warning!

System menu color, language, time format, video format, user account will not maintain previous setup after default operation!



Figure 5-24

5.4 Search

Please refer to chapter 4.3 Search.

5.5 Advanced

Double click advanced icon in the main window, the interface is shown as below. See Figure 5-25. There are total eight function keys: HDD management, alarm output, abnormity, manual record, account, auto maintenance, TV adjust and Config backup.



Figure 5-25

5.5.1 HDD Management

Here is for you to view and implement CF card management. See Figure 5-26.

You can see current CF card type, status, capacity and record time. When CF card is working properly, system is shown as O. When CF card error occurred, system is shown as X. You can select CF card mode from the dropdown list such as read-only or you can erase all data in the CF card.

Please note system needs to reboot to get all the modification activated.

Usually we recommend you need to format the CF card before you change its property.



Figure 5-26

Click alarm set button, the interface is shown as below. See Figure 5-27. (This interface is just like the abnormity setup). Please refer to chapter 5.5.2 for detailed information.

ABNORMALITY					
Event Type Enable	No Disk 🛛 🔻				
Alarm Out	12 Alarm Upload	Latch Send Email	[10 MMS]sec.	
Buzzer					
			Save Car	ncel	

Please highlight icon 📕 to select the corresponding function.

Figure 5-27

5.5.2 Abnormity

Abnormity interface is shown as in Figure 5-28.

- Event type: There are several options for you such as disk error, no disk, disconnection, IP conflict and etc.
- Alarm output: Please select alarm activation output port (multiple choices).
- 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 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 alarm occurs.
- MMS: Highlight the icon to enable this function. System can send out a message to the user once an alarm occurs.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.
| | ABNORMALITY |
|----------------------|---|
| Event Type
Enable | No Disk |
| Alarm Out | 12 Latch 10 sec Alarm Upload Send Email MMS |
| Buzzer | |
| | Save Cancel |

Figure 5-28

5.5.3 Alarm Output

Here is for you to set proper alarm output.

Please highlight icon it to select the corresponding alarm output.

After all the setups please click OK button, system goes back to the previous menu. See Figure 5-29.

Alarm Type	All	1 2	
Schedule	0		
Manual	0		
Stop	0	00	
Status			



5.5.4 Manual Record

Please refer to chapter 4.2.2 manual record.

5.5.5 Account

Here is for you to implement account management. See Figure 5-30. 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 four default users: admin/888888/6666666 and hidden user "default". Except user 6666, other users have administrator right.
- 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.

				ACC		Γ	
	4	User	Gr	oup		Status	
	1	888888		min		Login Local	
	2	666666	us	er		Normal	
	3	admin	ad	min		Normal	
Γ	4	default	us	er		Default User	
			N4	<u>.</u>			
	<u> </u>		Modify User				
	Add	Group	Modify Grou	up) (Moo	dify Pa	ssword	

Figure 5-30

5.5.5.1 Modify Password

Click password button, the interface is shown as in Figure 5-31.

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
Name	888888
Old Password	
New Password	
Confirm	
	Save Cancel

Figure 5-31

5.5.5.2 Add/Modify Group

Click add group button, the interface is shown as below. See Figure 5-32.

Here you can input group name and then input some memo information if necessary. There are total 60 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 5-32.

8	Add Group
Name	
Memo	
77 A	Nuthority
1 🗸	Control Panel
2 🗸	Shutdown the device
3 🗸	/ Monitor
	Monitor_CH01
5 🗸	
6 🗸	∕ Monitor_CH03
7 🗸	
8 🗸	
9 🗸	
10 🗸	
🙌 Pag	ge Up 🚺 Page Down 🕞 Enable/Disable Authority
	Save Cancel

Figure 5-32

5.5.5.3 Add/Modify User

Click add user button, the interface is shown as in Figure 5-33.

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 5-33.

8	Add User		
Name	Reuseable		
Password	Confirm		
Memo			
Group	admin 🔻		
77 Auth	Inority		
	ontrol Panel		
2 ✓ S 3 ✓ M	nutdown the device		
3 🗸 N	onitor		
	Monitor_CH01		
5 🗸	Monitor_CH02		
6 🗸	Monitor_CH03		
7 🗸	Monitor_CH04		
M Page	Jp 🖬 Page Down 🕫 Enable/Disable Authority		
	Save Cancel		

Figure 5-33

5.5.6 Auto Maintain

Here you can set auto-reboot time, auto boot up time, auto shut down time, auto-delete old files and ACC delay setup. See Figure 5-34.

You can select proper setup from dropdown list.

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

Important

- The auto boot up, auto shut down and ACC delay can set respectively. But they can only be valid when ACC is disconnected and there is power. The device is on when the ACC is connected and there is power. The device can not boot up when there is no power, no matter ACC is connected or not.
- The auto shut down and ACC delay conflicts. The ACC delay shut down is null if you have enabled auto shut down function.

Auto-Reboot System
Every Tuesda 🔻 at 02:00 💌
Auto-Delete Old Files
Never 🔻
Auto Boot up
INVALID 🔻 at 00:00 🔻
Auto Shutdown System
Never 🔻 at 00:00 🔻
Acc Delay
30 min.
OK Cancel

Figure 5-34

5.5.7 TV Adjust

Here is for you to adjust TV output setup. See Figure 5-35.

Please drag slide bar to adjust each item.

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

-	Т	V ADJUST	
Тор	o Deflate		0
Bot	tom Deflate		0
Left	Deflate	0	0
Rig	ht Deflate	•	0
	ОК	Cance	1



5.5.8 Config File Backup

The configuration file backup interface is shown as below. See Figure 5-36. This function allows you to copy current system configuration to other devices.





5.6 Information

Here is for you to view system information. There are total five items: HDD (hard disk information), BPS (data stream statistics), Log and version, and online user. See Figure 5-37.



Figure 5-37

5.6.1 HDD Information

Here is to list CF card type, total space, free space, video start time and status. See Figure 5-38. • means current CF card is normal. X means there is error. - means there is no CF card.

If CF card is damaged, system shows as "?". Please remove the CF card before you add a new one.

When CF card confliction occurs, you can check system time and CF card time are identical or not. If they are not identical, please go to General (Chapter 5.3.1) to adjust system time or go to HDD Management (Chapter 5.5.1) to format HDD and then reboot the DVR.

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 INFO		1
1			
Туре	Total Space	Free Space	Status
	79.99 GB	79.99 GB	
Read/Write	79.99 GB	79.99 GB	Normal
		r (18	
	O Type Read/Write	1 O Type Total Space - 79.99 GB	1 Type Total Space Free Space - 79.99 GB 79.99 GB Read/Write 79.99 GB 79.99 GB

Figure 5-38

Tips:

Please click Fn (Aux)button or left click mouse to view card record time and card type and time.

5.6.2 BPS

Here is for you to view current video data stream (KB/s) and occupied CF card storage (MB/h). See Figure 5-39.

*			BPS	
Channel	Kb/S	MB/H	Wave	
1	12273	4743		
2	12273	4743		
3	12273	4743		
4	12273	4743		

Figure 5-39

5.6.3 Log

Here is for you to view system log file. System lists the following information. See Figure 5-40. Log types include system operation, configuration operation, data management, alarm event, record operation, log clear and etc.

Pleased select start time and end time, then click search button. You can view the log files. Please page up/down button to view if there are more than ten files.



Figure 5-40

5.6.4 Version

Here is for you to view some version information. See Figure 5-41.

- Channel
- Alarm in
- Alarm out
- System version:
- Build Date



Figure 5-41

5.6.5 Online Users

Here is for you manage online users. See Figure 5-42.

You can disconnect one user or block one user if you have proper system right. Max disconnection setup is 65535 seconds.

8	ONLINE USERS	×
User Name	IP	
J.W	10.6.2.37	
Disconnect	Block for 60 s	ec.
Disconnect		ec.

Figure 5-42

5.7 Shutdown

Double click shutdown button, system pops up a dialogue box for you to select. See Figure 5-43.

- Logout menu user: Log out menu. You need to input password when you login the next time.
- Shutdown: Exit the system and then turn off power.
- Restart System: Exit the system and then system begins rebooting.
- Switch user: You can use another account to log in.

Important

For user account of no right to turn of the device, please input the shutdown password first.



Figure 5-43

6 About Auxiliary Menu

6.1 Go to Pan/Tilt/Zoom Menu





Click Pan/Tilt/Zoom, the interface is shown as in _____Figure 6-2. Here you can set the following items:

- Zoom
- Focus
- Iris

Please click icon 🥃 and 🔛 to adjust zoom, focus and Iris.





In ______Figure 6-2., please click direction arrows (See _____Figure 6-3.) to adjust PTZ position. There are total eight direction arrows.



Figure 6-3

6.1.1 3D Intelligent Positioning Key

In the middle of the eight direction arrows, there is a 3D intelligent positioning key. See

Figure 6-4. Please make sure your protocol supports this function and you need to use mouse to control.

Click this button, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size.



6.2 Preset /Patrol / Pattern /Border Function

In _____Figure 6-2, click the set button. The interface is shown as

below: Here you can set the following items:

- Preset
- Patrol
- Pattern
- Border





In _____Figure 6-2., click page switch button, you can see an interface as in _____Figure 6-6. Here you can activate the following functions:

- Preset
- Tour(Patrol)
- Pattern
- Auto scan
- Auto pan
- Flip
- Page Switch

No. 0 Preset
Pattern Tour
AutoScan AutoPan
Flip Reset
Page Switch

Figure 6-6

6.2.1 Preset Setup

Note: The following setups are usually operated in the _____Figure 6-2., _____Figure 6-5. and _____Figure 6-6.

In _____Figure 6-2., use eight direction arrows to adjust camera to the proper position.

In _____Figure 6-5., click preset button and input preset number. The interface is shown as in _____Figure 6-7.

Add this preset to one patrol number

<u>р</u> /	AN/TILT/ZOOM	X
Function Preset Patrol Pattern Border	Preset 1 Patrol No. 0 Set Del Preset	

Figure 6-7

6.2.2 Activate Preset

In _____Figure 6-6, please input preset number in the No. blank, and click preset button.

6.2.3 Patrol Setup

In summer Figure 6-5., click patrol button. The interface is shown as in summer Figure

6-8. Input preset number and then add this preset to one patrol.

10 P/	AN/TILT/ZOOM	×
Function Preset Patrol Pattern Border	Preset 1 Patrol No. 0 Add Preset Del Preset	×

Figure 6-8

6.2.4 Activate Patrol

InFigure 6-6., input patrol number in the No. blank and click patrol button

6.2.5 Pattern Setup

Please go to _____Figure 6-2. to modify zoom, focus, and iris. Go back to _____Figure 6-9. and click end button.

You can memorize all these setups as pattern 1.



Figure 6-9

6.2.6 Activate Pattern Function

In _____Figure 6-6. input mode value in the No. blank, and click pattern button.

6.2.7 Border Setup

In _____Figure 6-5., click border button. The interface is shown as in _____Figure 6-10. Please go to _____Figure 6-2., use direction arrows to select camera left limit, and then please go to _____Figure 6-10. and click left limit button

Repeat the above procedures to set right limit.



Figure 6-10

6.2.8 Activate Border Function

In _____Figure 6-6., click auto scan button, the system begins auto scan. Correspondingly, the auto scan button changes to stop button.

Click stop button to terminate scan operation.

6.2.9 Flip

In _____Figure 6-6., click page switch button, you can see an interface is shown as below. See _____Figure 6-11.. Here you can set auxiliary function.

Click page switch button again, system goes back toFigure 6-2.



Figure 6-11

7 WEB OPERATION

Please note all the operations here are based on our 4-ch DVR. There might be slightly difference in the interface due to different series.

7.1 Network Connection

Before web client operation, please check the following items:

- Network connection is right
- DVR and PC network setup is right. Please refer to network setup(main menu->setting->network)
- Use order ping ***.***.***(* DVR IP address) 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 webrec2.0.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.

7.2 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

Blank Page - Windows Internet Explorer		
() () - (e) about:blank	x 4 k	
i 🔁 *		
2 4 Contraction Co	🖄 • 📾 · 🖶 • 🛙	Page • @ Tools • " Input your
		address he
	😜 Internet	🔍 100% 💌

Figure 7-1

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 7-2.





After installation, the interface is shown as below. See _____Figure

7-3. Please input your user name and password.

Default factory name is admin and password is admin.

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



Figure 7-3

After you logged in, you can see the main window. See _____Figure 7-6. This main window can be divided into the following sections.

- Section 1: there are five function buttons: configuration (chapter 7.3), search (chapter 7.4), alarm (chapter 7.5), about (chapter 7.6), log out (chapter 7.7).
- Section 2: there are channel number and three function buttons: start dialog and local play, refresh.
- Section3: there are PTZ (chapter 7.2.2), color (chapter 7.2.3) button and you can also select picture path and record path.
- Section 4:real-time monitor window. Please note current preview window is circled by a green rectangle zone.
- Section 5: Here you can view window switch button. You can also select video priority between fluency or real-time.
 - System monitor window switch supports full screen/1-window/4-window/6-window/8window/9-window/13-window/16-window/20-window/25-window/36-window. See
 Figure 7-4.

▥炎□田田田田田田田田2536



Preview window switch. System support 1/4/8/9/16-window real-time preview. Please you need to have the proper rights to implement preview operation. You can not preview if you have no right to preview the either channel. See _____Figure 7-5. Please note this series device does not support this function.





Figure 7-5

7.3 Monitor Channel Menu Tree

The monitor channel menu tree is shown as in Figure 7-7.

CAM 1	
Open All Refres	h
StartDialog 💌	
Local Play	

Figure 7-7 Monitor Channel Menu Tree

Please refer to the following sheet for detailed information.

Parameter	Function
Channel 1	Monitor channel 1
	 This series product supports main stream and extra stream. Main stream: In normal network width environment, main stream can record video and audio and realize network monitor. Extra stream: If network width is not sufficient, you can use extra stream to realize network monitor. Please note the extra stream resolution shall be less than main stream resolution.
Open all /close	Click this button to open all video channels.
all	Once all video channels are open, it becomes close all button.
Start dialogue	You can click this button to enable audio talk. Audio compression type: G.711a (default), PCM and etc
Local play	Click local play button to select file to play in PC.
Refresh	Click this button to refresh monitor channel name.

Please left click one monitor to view real-time video, the monitor window is shown as in Figure 7-8.



Figure 7-8 Real-time Monitor

Please refer to the following sheet for monitor window parameter information.

SN	Parameter	Function	
1-4	Display device information	 1: Device IP address. 2: Channel number. 3: Bit stream. 4: Stream decode type. S1: Overlay. S2: Off stream. S3:GD1 H1: Overlay H2: off stream decoding from the display card. 	
5	Digital zoom	Click this button and then left drag the mouse in the zone to zoom in. Right click mouse system restores original status.	
6	Change show mode	Resize or switch to full screen mode.	

7	Local record	When you click local record button, the system begins recording. The recorded file is saved to system folder: \ RecordDownload(default). You can go to chapter 2.7 to modify the local record save path. The playback bar is shown as below.		
8	Capture picture	You can snapshoot important video. All images are memorized in system folder: \ picture download (default).		
9	Audio	Turn on or off audio.(It has no relationship with system audio setup)		
10	Close video	Close video in current window.		
11	Channel number	Current view channel number.		

7.4 System Menu

System menu is shown as in Figure 7-9.

Please refer to chapter 7.7 Configuration, chapter 7.8 Search, chapter 7.9 Alarm, chapter 7.10 About, chapter 7.11 Log out for detailed information.

SEARCH	ALARM	CONFIG	ABOUT	LOGOUT

Figure 7-9 System Menu

7.5 Monitor Window Switch

The monitor window switch interface is shown as in Figure 7-10.

Figure 7-10 Monitor Window Switch

Here you can select 1/4/6/8/9/13/16/20/25/36-window real-time preview.



--It is video quality adjustment button. It has relationship with decode via software.

W:H

----The original image size in the webpage.

7.5.1 PTZ

Please note current series product does not support this function.

Before PTZ operation, please make sure you have properly set PTZ protocol. (Please refer to chapter 7.3.2 Setting-> Pan/Tilt/Zoom).



Figure 7-11

7.5.1.1 Direction key and 3D positioning key

In Figure 7-11, 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.

7.5.1.2 Speed

System supports eight-level speed. You can select from the dropdown list. Speed 2 is faster than speed 1.

7.5.1.3 Zoom/Focus/Iris

Here is a sheet for you reference.

Name	Function	Function	Function	Function
	key		key	
Zoom		Near	4	Far
Focus	1	Near	4	Far
Iris	1	close		Open

In Figure 7-11, click PTZ setup button you can see the following interface. See _____Figure 7-12.

Set PIZ			X
- Auto-Scan	Left Limit	Right Limit	
Preset	Add	Delete	
Auto-Tour	Add	Delete	Delete Group
Pattern	Start Record	Stop Record	Delete
Assistant BLC 💌	Start	Stop	

Figure 7-12

7.5.1.4 Auto Scan

In _____Figure 7-12., 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. 7.5.1.5 Pattern

In _____Figure 7-12, you can input pattern value and then click start record button to begin PTZ movement. Please go back to Figure 7-11 to implement camera operation. Then you can click stop record button. Now you have set one pattern.

7.5.1.6 Preset

In _____Figure 7-12, move the camera to your desired location and then input preset value. Click add button, you have set one preset.

7.5.1.7 Auto tour

In _____Figure 7-12, input auto tour value and preset value. Click add button, you have added one preset in the tour.

Repeat the above procedures you can add more presets in one tour.

7.5.1.8 Assistant

Set PTZ			×
-Auto-Scan	Left Limit	Right Limit	
Preset	Add	Delete	
Auto-Tour	Add	Delete	Delete Group
Pattern 1	Start Record	Stop Record	Delete
Assistant	Start	Stop	
Digital Zoor Night Visior Camera Brig Preset Title	_	_	

Figure 7-13

7.5.2 Color

Click color button in section 3, the interface is shown as _____Figure 7-14.

Here you can select one channel and then adjust its brightness, contrast, hue and saturation.

(Current channel border becomes green).

Or you can click default button to use system default setup.

Color	More	
30% <1		- 🖻
$\bigcirc \triangleleft$		- >
\bigcirc		- 1>
25 1	-	- >
Reset		



7.5.3 Picture Path and Record Path

Click more button in _____Figure 7-14., you can see an interface is shown as in _____Figure 7-15..

Color	More
PIC Path	REC Path
Reboot	

Figure 7-15

Click picture path button, you can see an interface is shown as in _____Figure 7-16.. Please click choose button to modify path.



Figure 7-16

Click record path button, you can see an interface is shown as in ______Figure 7-17. Please click choose button to modify path.

Set Path	1	
Path	C:\RecordDownload Set Cancel	Choose

Figure 7-17

Click reboot button, system pops up the following dialogue box. See Figure 7-18, Please click OK to reboot.



Figure 7-18

If there is local use logged in the system menu, or the Web logged in user has no right to reboot the device system pops up a dialogue box to alert you.

7.6 Configure

7.6.1 System Information

7.6.1.1 Version Information

Configuration			
📃 Control Panel		VERSION -	
🖃 📝 Query System Info	Item	Stauts	
VERSION	S/N		
HDD INFO	Video In/Out	4/1	
LOG	Audio In/Out Alarm In/Out	4/1 4/3	
	Ethernet Port	4/3	
	RS232	1	
	ATA Port	0	
	Bios Version	2.606.0008.0,Build:2009-7-9	
🕀 📄 NETWORK			
🗀 ALARM			
DETECT			
PAN/TILT/ZOOM			
DEFAULT/BACKUP			
Alarm I/O Config			
Record			
ACCOUNT			
📔 SNAPSHOT			
AUTO MAINTENANCE			
IIII DNS			
			Refresh
L			

Figure 7-19

7.6.1.2 HDD information

Here you can view local CF card storage status and network status including, free capacity and total capacity. See _____Figure 7-20.

Configuration				X
Configuration	S/N Total (Local)HDD-1 Disk-1	HDD Status - Working	INF0 237604/238464MB 237604/238464MB	
Record Record AcCOUNT SNAPSHOT AUTO MAINTENANCE ADDTIONAL FUNCTION DNS				
				Refresh

Figure 7-20

7.6.1.3 Log Here you can view system log. See _____Figure 7-21..

- Version Info	Search	Clear Bac	kup	Туре	All	-
	S/N		Event		-	
	000001	Log Time 2000-01-08 21:49:52	Import Config	Coursel		<u> </u>
	000002	2000-01-08 21:49:53	User Login: c			
T System Config	000003	2000-01-08 21:49:53	Export Config			≡
	000004	2000-01-08 21:49:53		Down. Time: 2000-01-02 (20:29:39	
	000005	2000-01-08 21:49:53	Normal Rebo	ot		
	000006	2000-01-08 21:49:53	Video LossOr	n: Channel No.: 1		
<mark>ia</mark> R5232	000007	2000-01-08 21:49:53		n: Channel No.: 2		
🗄 📄 NETWORK	000008	2000-01-08 21:49:53		n: Channel No.: 3		
- 🗀 ALARM	000009	2000-01-08 21:49:53		n: Channel No.: 4		
DETECT	000010	2000-01-08 21:50:54	User Login: d			
PAN/TILT/ZOOM	000011	2000-01-08 21:50:54		Down, Time: 2000-01-08 2	21:50:25	
	000012	2000-01-08 21:50:54	Abnormal Re			
ADVANCED	000013	2000-01-08 21:50:54 2000-01-08 21:50:54		n: Channel No.: 1 n: Channel No.: 2		
HDD MANAGEMENT	000014	2000-01-08 21:50:54		n: Unannel No.: 2 n: Channel No.: 3		
	000015	2000-01-08 21:50:55		n: Channel No.: 3 n: Channel No.: 4		
Alarm I/O Config	000017	2000-01-08 21:50:55	User Logout:			
Record	000018	2000-01-08 21:51:07	User Logia:			
	000019	2000-01-08 21:51:08	Export Confic			
	000020	2000-01-08 21:51:08	Export Config			
- SNAPSHOT	000021	2000-01-08 21:51:08	Export Confid			
	000022	2000-01-08 21:51:08	Export Config	: Motion Detect		
- DITIONAL FUNCTION	000023	2000-01-08 21:51:08	Export Config	;: Config Info		
DNS	000024	2000-01-08 21:51:08	Export Config			
	000025	2000-01-08 21:51:30	User Login: c			
	000026	2000-01-08 21:51:30	Export Config			
	000027	2000-01-08 21:51:30		Down, Time: 2000-01-08 (21:51:13	
	000028	2000-01-08 21:51:30	Normal Rebo			~
	000029	2000-01-08 21:51:31	Video LossUi	n: Channel No.: 1		

Figure 7-21

Save As					? 🗙
Savejn: 🞯 Desktop		• +		d .	### *
My Computer					
My Documents					
File <u>n</u> ame: 2009-07-10 11_24	(32(All)		_		Save
Save as type: Log File(*.log)			•		Cancel

Figure 7-22

Please refer to the following sheet for log parameter information.

Parameter	Function
Туре	Log types include: system operation, configuration operation, data management, alarm event, record operation, user management, log clear and file operation.
Search	You can select log type from the drop down list and then click search button to view the list.
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.

7.6.2 System Configuration

Please click save button to save your current setup.

7.6.2.1 General Setup

Configuration	X
🖳 Control Panel	GENERAL
Query System Info VERSION HDD INFO	System Time 2000- 1-16 💌 16:52:49 🐥 Save Sync PC
LOG System Config GENERAL GENERAL SOLULE SOLULE R5232 NETWORK ALARM DETECT PAN/TILT/ZOOM DEFAULT/BACKUP MOD MANAGEMENT ADVANCED ADVANCED ABNORMITY ABNORMITY ABNORMITY ABNORMITY ABNORMITY ABNORMITY ABNORMITY ADJOINAL FUNCTION DES	Date Format YYYY MM DD<
	Save Refresh

Figure 7-23

DST	
🖲 Day 🛛 🔿 Week day	
Hour	
2009- 6- 2 💌 0 💌	• ▼
2009- 9- 2 🔻 0 💌	0 🗸
OK Cance	el 🔤
Figure 7-24	
DST	×
C Day 💿 Week day	
Month Week Week day Hour	Min.
6 🕶 1 💌 Tue 💌 0 💌	0 🗸
9 • 1 • Wed • 0 •	0 🔻
OK Cance	
Figure 7.25	

Figure 7-25

Please refer to the following sheet for detailed information.

Parameter	Function
System Time	Here is for you to modify system time. Please click Save button after your completed modification

Sync PC	You can click this button to save the system time as your PC current time.
Data Format	Here you can select data format from the dropdown list.
Data Separator	Please select separator such as – or /.
Time Format	There are two options: 24-H and 12-H.
DST	Here you can set day night save time begin time and end time. See Figure 7-24 and Figure 7-25.
Language	You can select the language from the dropdown list. Device needs to reboot to get the modification activated.
CF card Full	There are two options: stop recording or overwrite the previous files when card is full. When current working card is overwriting or it is full now, system stops record. If current working card is full now, system goes to overwrite the previous file.
Pack Duration	Here you can select file size. Default setup is 60 minutes.
Device No	When you are using one remote control (not included in the accessory bag) to manage multiple devices, you can give a serial numbers to the device. Please note current series product does not support this function.
Video Standard	There are two options: PAL/NTSC. Please note, for the Web user, this information is for reference only. You can not modify.

7.6.2.2 Encode

Please note encode setup has relationship with the hardware encode setup. You can set your self-defined only if it is in mode 3.

Encode interface is shown as inFigure 7-26.

Configuration				X
📃 Control Panel	I ———	E	NCODE	
Query System Info	Channel	Channel 01 🗨	CHANNEL NAME	CAM 1
	Compression	H264 💌		
🖃 📊 System Config	Main Stream	Main Stream 💌	Extra Stream	Main Stream 💌
GENERAL	Audio/Video	Audio	Audio/Video	Video 🔽 Audio
SCHEDULE	Resolution	CIF 👤	Resolution	QCIF
R5232	Frame Rate(FPS)	25 💌	Frame Rate(FPS)	25 💌
ALARM	Bit Rate Type	CBR 💌	Bit Rate Type	CBR 💌
DETECT				
DEFAULT/BACKUP	Bit Rate(Kb/s)	640 💌	Bit Rate(Kb/s)	160 💌
ADVANCED HDD MANAGEMENT ABNORMITY	Reference Bit Rate	192~1024Kbps	Reference Bit Rate	48~256Kbps
Alarm I/O Config 📴 Record	Color Setting	Set		
Account	Overlay —			
AUTO MAINTENANCE	Cover-Area	Monitor	Set	
	🔽 Time Display	Set	Channel Display	Set
	Сору			Save Refresh

Figure 7-26

Color Settin	g				
Brightness 52 0~100	Contrast 49 0~100	Saturation 50 0~100	Hue 50 0~100	 ✓ Gain 49 0~100 	
	ОК		Cancel		



Please refer to the following sheet for detailed information.

Parameter	Function			
Channel	Here is for you to select a monitor channel.			
Channel Name	Here is to display current channel name. You can modify it.			
Compression	H.264			
Main Stream	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 motion detection record and alarm record.			
Extra Stream	Select extra stream if you enabled the extension stream to monitor.			

then select the audio if necessary. Resolution Main stream resolution supports D1/CIF/QCIF. Extra stream of channel 1 to channel 4 support CIF/QCIF only. Frame Rate PAL : 1 ~ 251/s : NTSC : 1 ~ 30//s System supports various resolutions, you can select from the dropdown list. For this model, main stream supports D1/CIF/QCIF. Please note the resolution may vary due to different channels. The extra stream supports QCIF/CIF. Bit Rate Type There are two options: VBR and CBR. Please note, you can set video quality in VBR mode only. Quality The value ranges from 1 to 6. The level 6 is the best video quality. Bit Rate • 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. • Please refer to recommend bit rate for the detailed information. Recommended Bit Recommended bit rate value according to the resolution and frame rate you have set. Color Setting Here you can set video brightness, contrast ness, hue, saturation and gain. The value ranges from 0 to 100.Default value is 50. See Figure 7-27. Please note, some series devices do not support OSD transparent setup function. Cover area (privacy mask) • Here you can privacy mask the specified video in the monitor video. • One channel max supports 4 privacy mask function. Monitor: the privacy mask zone can not be viewed in monitor mode. Time Title • You can enable this function so that system overlays time information in video window. • OSD transparent value ranges from 0 t	Parameter	Function
Extra stream of channel 1 to channel 4 support CIF/QCIF only. Frame Rate PAL: 1 ~ 25f/s : NTSC : 1 ~ 30f/s System supports various resolutions, you can select from the dropdown list. For this model, main stream supports D1/CIF/QCIF. Please note the resolution may vary due to different channels. The extra stream supports QCIF/CIF. Bit Rate Type There are two options: VBR and CBR. Please note, you can set video quality in VBR mode only. Quality The value ranges from 1 to 6. The level 6 is the best video quality. Bit Rate • 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. • Please refer to recommend bit rate for the detailed information. Recommended Bit Recommended bit rate value according to the resolution and frame fate you have set. Color Setting Here you can set video brightness, contrast ness, hue, saturation and gain. The value ranges from 0 to 100.Default value is 50. See Figure 7-27. Please note, some series devices do not support OSD transparent setup function. Cover area (privacy mask) • Here you can privacy mask the specified video in the monitor video. • One channel max supports 4 privacy mask zones. • The privacy mask includes two options: Never/monitor. Never: It means do not enable privacy mask function. Monitor: the privacy mask zone can not be viewed in monitor mode. Time Title • You can enable this function so that system overlays time information in video window. • OSD transparent value ranges from 0 to 255. 0 means complete transparent. • Y	Audio/Video	need to draw a circle here to enable audio function. For extra stream, you need to draw a circle to select the video first and
Table Kale System supports various resolutions, you can select from the dropdown list. For this model, main stream supports D1/CIF/QCIF. Please note the resolution may vary due to different channels. The extra stream supports QCIF/CIF. Bit Rate Type There are two options: VBR and CBR. Please note, you can set video quality in VBR mode only. Quality The value ranges from 1 to 6. The level 6 is the best video quality. Bit Rate • 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. • Please refer to recommend bit rate for the detailed information. Recommended Recommended bit rate value according to the resolution and frame rate you have set. Color Setting Here you can set video brightness, contrast ness, hue, saturation and gain. The value ranges from 0 to 100.Default value is 50. See Figure 7-27. Please note, some series devices do not support OSD transparent setup function. Cover area (privacy mask) • Here you can privacy mask the specified video in the monitor video. • One channel max supports 4 privacy mask zones. • The privacy mask includes two options: Never/monitor. Never: It means do not enable privacy mask function. Monitor: the privacy mask zone can not be viewed in monitor mode. Time Title • You can enable this function so that system overlays time information in video window. • OSD transparent value ranges from 0 to 255. 0 means complete transpar	Resolution	
Dirk rate type Please note, you can set video quality in VBR mode only. Quality The value ranges from 1 to 6. The level 6 is the best video quality. Bit Rate • 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. • Please refer to recommend bit rate for the detailed information. Recommended Bit Recommended bit rate value according to the resolution and frame rate you have set. Color Setting Here you can set video brightness, contrast ness, hue, saturation and gain. The value ranges from 0 to 100.Default value is 50. See Figure 7-27. Please note, some series devices do not support OSD transparent setup function. Cover area (privacy mask) • Here you can privacy mask the specified video in the monitor video. • One channel max supports 4 privacy mask zones. • The privacy mask includes two options: Never/monitor. Never: It means do not enable privacy mask function. Monitor: the privacy mask zone can not be viewed in monitor mode. Time Title • You can enable this function so that system overlays time information in video window. • OSD transparent value ranges from 0 to 255. 0 means complete transparent. • You can use the mouse to drag the time tile position. Channel Title • You can use the mouse to drag the channel tile position. • You can use the mouse to drag the channel tile position.	Frame Rate	System supports various resolutions, you can select from the dropdown list. For this model, main stream supports D1/CIF/QCIF. Please note the resolution may vary due to different channels. The
Bit Rate • 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. • Please refer to recommend bit rate for the detailed information. Recommended Bit Recommended bit rate value according to the resolution and frame rate you have set. Color Setting Here you can set video brightness, contrast ness, hue, saturation and gain. The value ranges from 0 to 100.Default value is 50. See Figure 7-27. Please note, some series devices do not support OSD transparent setup function. Cover area (privacy mask) • Here you can privacy mask the specified video in the monitor video. • One channel max supports 4 privacy mask zones. • The privacy mask includes two options: Never/monitor. Never: It means do not enable privacy mask function. Monitor: the privacy mask zone can not be viewed in monitor mode. Time Title • You can enable this function so that system overlays time information in video window. • OSD transparent value ranges from 0 to 255. 0 means complete transparent. • You can use the mouse to drag the time tile position. Copy It is a shortcut menu button. You can copy current channel setup to one or more channels. The interface is shown as inFigure 7-Save You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.	Bit Rate Type	Please note, you can set video quality in VBR mode only.
needs to low frame rate or video quality to guarantee the value. • The value is null in VBR mode. • Please refer to recommend bit rate for the detailed information. Recommended Bit Recommended bit rate value according to the resolution and frame rate you have set. Color Setting Here you can set video brightness, contrast ness, hue, saturation and gain. The value ranges from 0 to 100.Default value is 50. See Figure 7-27. Please note, some series devices do not support OSD transparent setup function. Cover area (privacy mask) • Here you can privacy mask the specified video in the monitor video. • One channel max supports 4 privacy mask zones. • The privacy mask includes two options: Never/monitor. Never: It means do not enable privacy mask function. Monitor: the privacy mask zone can not be viewed in monitor mode. Time Title • You can enable this function so that system overlays time information in video window. • OSD transparent value ranges from 0 to 255. 0 means complete transparent. • You can use the mouse to drag the time tile position. Channel Title • You can use the mouse to drag the channel tile position. Copy It is a shortcut menu button. You can copy current channel setup to one or more channels. The interface is shown as inFigure 7- Save You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.	Quality	The value ranges from 1 to 6. The level 6 is the best video quality.
• Please refer to recommend bit rate for the detailed information. Recommended Bit Recommended bit rate value according to the resolution and frame rate you have set. Color Setting Here you can set video brightness, contrast ness, hue, saturation and gain. The value ranges from 0 to 100.Default value is 50. See Figure 7-27. Please note, some series devices do not support OSD transparent setup function. Cover area (privacy mask) • Here you can privacy mask the specified video in the monitor video. • One channel max supports 4 privacy mask zones. • The privacy mask includes two options: Never/monitor. Never: It means do not enable privacy mask function. Monitor: the privacy mask zone can not be viewed in monitor mode. Time Title • You can enable this function so that system overlays time information in video window. • OSD transparent value ranges from 0 to 255. 0 means complete transparent. • You can enable this function so that system overlays channel information in video window. • OSD transparent value ranges from 0 to 255. 0 means complete transparent. • You can use the mouse to drag the time tile position. Channel Title • You can enable this function so that system overlays channel information in video window. • OSD transparent value ranges from 0 to 255. 0 means complete transparent. • You can use the mouse to drag the channel tile position. Copy It is a shortcut menu button. You can copy current channel setup to one or more channels. The interface is shown as in	Bit Rate	
Bit rate you have set. Color Setting Here you can set video brightness, contrast ness, hue, saturation and gain. The value ranges from 0 to 100.Default value is 50. See Figure 7-27. Please note, some series devices do not support OSD transparent setup function. Cover area (privacy mask) • Here you can privacy mask the specified video in the monitor video. One channel max supports 4 privacy mask zones. • The privacy mask includes two options: Never/monitor. Never: It means do not enable privacy mask function. Monitor: the privacy mask zone can not be viewed in monitor mode. Time Title • You can enable this function so that system overlays time information in video window. OSD transparent value ranges from 0 to 255. 0 means complete transparent. • You can use the mouse to drag the time tile position. Channel Title • You can enable this function so that system overlays channel information in video window. OSD transparent value ranges from 0 to 255. 0 means complete transparent. • You can use the mouse to drag the time tile position. Copy It is a shortcut menu button. You can copy current channel setup to one or more channels. The interface is shown as in		
gain. The value ranges from 0 to 100.Default value is 50. See Figure 7-27. Please note, some series devices do not support OSD transparent setup function. Cover area (privacy mask) • Here you can privacy mask the specified video in the monitor video. • One channel max supports 4 privacy mask zones. • The privacy mask includes two options: Never/monitor. Never: It means do not enable privacy mask function. Monitor: the privacy mask zone can not be viewed in monitor mode. Time Title • You can enable this function so that system overlays time information in video window. • OSD transparent value ranges from 0 to 255. 0 means complete transparent. • You can enable this function so that system overlays channel information in video window. • OSD transparent value ranges from 0 to 255. 0 means complete transparent. • You can use the mouse to drag the time tile position. Channel Title • You can enable this function so that system overlays channel information in video window. • OSD transparent value ranges from 0 to 255. 0 means complete transparent. • You can use the mouse to drag the channel tile position. Copy It is a shortcut menu button. You can copy current channel setup to one or more channels. The interface is shown as inFigure 7- Save You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.		
 (privacy mask) One channel max supports 4 privacy mask zones. The privacy mask includes two options: Never/monitor. Never: It means do not enable privacy mask function. Monitor: the privacy mask zone can not be viewed in monitor mode. Time Title You can enable this function so that system overlays time information in video window. OSD transparent value ranges from 0 to 255. 0 means complete transparent. You can use the mouse to drag the time tile position. Channel Title You can enable this function so that system overlays channel information in video window. OSD transparent value ranges from 0 to 255. 0 means complete transparent. You can use the mouse to drag the time tile position. Channel Title You can use the mouse to drag the channel tile position. Copy It is a shortcut menu button. You can copy current channel setup to one or more channels. The interface is shown as inFigure 7- Save You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button. 	Color Setting	gain. The value ranges from 0 to 100.Default value is 50. See Figure 7-27. Please note, some series devices do not support OSD transparent
information in video window. • OSD transparent value ranges from 0 to 255. 0 means complete transparent. • You can use the mouse to drag the time tile position. Channel Title • You can enable this function so that system overlays channel information in video window. • OSD transparent value ranges from 0 to 255. 0 means complete transparent. • You can use the mouse to drag the channel tile position. Copy It is a shortcut menu button. You can copy current channel setup to one or more channels. The interface is shown as inFigure 7- Save You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.		 One channel max supports 4 privacy mask zones. The privacy mask includes two options: Never/monitor. Never: It means do not enable privacy mask function. Monitor: the privacy
 information in video window. OSD transparent value ranges from 0 to 255. 0 means complete transparent. You can use the mouse to drag the channel tile position. Copy It is a shortcut menu button. You can copy current channel setup to one or more channels. The interface is shown as inFigure 7- Save You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button. 	Time Title	information in video window.OSD transparent value ranges from 0 to 255. 0 means complete transparent.
one or more channels. The interface is shown as inFigure 7- Save You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.	Channel Title	information in video window.OSD transparent value ranges from 0 to 255. 0 means complete transparent.
you can complete the whole setups and then click save button.	Сору	
Refresh Click this button to get device latest configuration information	Save	You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.
	Refresh	Click this button to get device latest configuration information.

Click copy interface, the interface is shown as in _____Figure 7-28.

If you have completed the setup for channel 1, you can click 3 to copy current setup to channel 3. Or you can click 2, 3, and 4 to copy current setup to channel 2, channel 3 and channel 4.

Сору То 🔀
All Channel
1 2 3 4
OK Cancel

Figure 7-28

7.6.2.3 Schedule

Here you can set different periods for various days. There are max six periods in one day. See Figure 7-29.

Configuration	<u>×</u>
📃 Control Panel	SCHEDULE
🚊 🐨 📝 QUERY SYSTEM INFO	Channel Channel 01 💌 Prerecord 4 sec
VERSION	Period Info
HDD INFO	Regular MD MD&Alarm MD&Alarm
	0 4 8 12 16 20 24
E SYSTEM CONFIG	
GENERAL	Sun Record Set
	Mon - Becord - Set
E RS232	
	Tue Record Set
DETECT DETECT	
	Wed Set
B & ADVANCED	
	Thu - Record - Set
ALARM I/O CONFIG	Fri - Becord - Set
Record	Fri Record Set
	Sat Record Set
AUTO MAINTENANCE	
VEHICLE CONFIG	
🗄 📲 ADDTIONAL FUNCTION	
Auto Register	
Preferred DNS	Copy Save Refresh
Mobile Config	

Figure 7-29

Default		Current		 Rea	Record Regular MD Alam		
Period 1	00:00	* -	23:59:59		•		
Period 2	0:00:00	•	23:59:59	•			
Period 3	0:00:00	•	23:59:59	•			
Period 4	0:00:00	•	23:59:59	•			
Period 5	0:00:00	•	23:59:59	*			
Period 6	0:00:00	•	23:59:59	•			
🔽 Sun	🗆 Mo	n l	Tue	🗌 We	d		
🗖 Thu	🗖 Fri	I	Sat				

Figure 7-30

Please refer to the following sheet for detailed information.

Parameter	Function			
Channel	Please select a channel first.			
Pre-record	Please input pre-record value here.			
	System can record several seconds video before activating the record operation into the file. (Depends on data size).			
Setup	 InFigure 7-29, click set button, you can go to the corresponding setup interface. 			
	 Please set schedule period and then select corresponding record or snapshot type: schedule/snapshot, motion detection/snapshot, and alarm/snapshot. 			
	• Please select date (Current setup applies to current day by default. You can draw a circle before the week to apply the setup to the whole week.)			
	• After complete setup, please go back to Figure 7-29, and then click save to save current time period setup.			
Сору	It is a shortcut menu button. You can copy current channel setup to one or more (all) channels. The interface is shown as in			
Save	You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.			
Refresh	Click this button to get device latest configuration information.			

7.6.2.4 RS232

The RS232 interface is shown as inFigure 7-31.

Configuration					×
Control Panel Query System Info VERSION VER	RS232 CDM Function Data Bits Stop Bits Baudrate Parity	COM 01 Console 8 1 1 None	- 	Save	Refresh

Figure 7-31

Please refer to the following sheet for detailed information.

Parameter	Function
RS232	There is only one option: COM 01. It is corresponding to RS232.
	Console is for debug.
Function	Control keyboard: Switch between RS232 and control keyboard.
	Network keyboard: COM control protocol. You can use network keyboard to control IPC via COM.
	Transparent COM: Network user can communicate with RS232 COM device.
	Alarm box: Wireless alarm box protocol. System can use COM to communicate with the wireless alarm box.
	COM_GPS: GPS module protocol. You can connect to it to realize GPS function.
Data Bit	The value ranges from 5 to 8.
Stop Bit	There are three options: 1/2.
Baud Bit	You can select corresponding baud bit here.
Parity	There are five options: none/odd/even/space/mark.

7.6.2.5 Network

Network interface is shown as inFigure 7-32.

×
-
_

Figure 7-32

Please refer to the following sheet for detailed information.

Parameter	Function		
Ethernet	Please select the network card first.		
DHCP	Dynamically get IP address. You can get the device IP from the DHCP server if you enabled this function.		
Device Name	The device ID in the network.		
TCP Port	Default value is 37777.		
HTTP Port	Default value is 80.		
UDP Port	Default value is 37778.		
Max Connection	Network user max amount. The value ranges from 0 to 20. O means there is no user can access current device.		
Network transmission QoS	You can set the priority between fluency and video quality or self-adaptive. System can automatically adjust the bit stream or lower the resolution according to the network bandwidth.		

Email

onfiguration Control Panel		EMAIL		
	SMTP Server Port User Name Password Sender Subject Receiver 1 Receiver 2 Receiver 3	Inverse yeahoo.com 25 0"68535 anonymity@dyahoo.com DVR Message	F Enable	F 551:
			S	ave Refresh

Figure 7-33

Please refer to the following sheet for detailed information.

Parameter	Function	
SMTP Server	Input server address and then enable this function.	
SSL enable	You can enable SSL encryption function to guarantee data safety.	
Port	Default value is 25. You can modify it if necessary.	
User Name	The sender email account user name.	
Password	The sender email account password.	
Sender	Sender email address.	
Subject	Input email subject here.	
Address	Input receiver email address here. Max input three addresses.	

DDNS

The DDNS interface is shown as in _____Figure 7-34. Please make sure your DVR support this function.

7				_
Configuration				
Sontrol Panel			– DDNS –	
Cuery System Info	DDNS Type	CN99 DDNS	✓ Enable	
HDD INFO	Server IP			
System Config	Port	1	1~65535	
GENERAL	Domain Name			
SCHEDULE	User Name			
E E NETWORK	Password			
EMAIL	Alive Interval(sec.)	1	1~30000	
NAS				
ALARM CENTER				
DETECT				
DEFAULT/BACKUP				
ADVANCED HDD MANAGEMENT				
Alarm I/O Config Record				
				Save Refresh

Figure 7-34

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. The private DDNS protocol means you use your self-defined private protocol to realize 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.	
Interval	 Device sends out alive signal to the server regularly. You can set interval value between the device and DDNS server here. 	

NAS

NAS interface is shown as in _____Figure 7-35.

Please make sure your DVR support this function.

Configuration		×
Control Panel Cuery System Info VERSION HDD INFO K LOG	NAS I✓ NAS Enable FTP Mode ✓ Server IP 0 . 0 . 0 0 Port 1024 0~65' User Name File Size(KB) 0 MB MB	
System Config GENERAL GENERAL GENEDULE SCHEDULE SCHEDULE	Password Remote Path Period Info	
	Channel Channel 01 0 4 8 12 16 20 3 Sun	24
	Mon	Set Set
		Set
		Set
	- Thu 	Set Set
	Sat	Set
	Copy Save R	efresh

Figure 7-35

Please refer to the following sheet for detailed information.

Parameter	Function	
NAS enable	Please select network storage protocol and then enable NAS function.	
Server IP	Input remote storage server IP address.	
Port	Input Remote storage server port number.	
User Name	Log in user account.	
File length	The file length you upload to the FTP. 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.	
Password	The password you need to log in the server.	
Remote Path	Remote storage file path.	
Save	You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.	
Refresh	Click this button to get device latest configuration information.	

NTP

The NTP interface is shown as in _____Figure 7-36.

Here you can realize network time synchronization. Please enable current function and then input server IP, port number, time zone and update interval. Please note the SNTP supports TCP

transmission only and its port shall be 123. The update interval ranges from 1 to 65535. Default value is 10 minutes.

Configuration					×
Control Panel Query System Info VERSION HDD INFO GENERAL GEN	✓ Enable Server IP Port Time Zone Update Period	NTF NTPServer 123 GMT+08:00 10	P	Save	Refresh

Figure 7-36

You can refer to the following sheet for time zone information.

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
Tokyo	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

Alarm Centre

Alarm centre interface is shown as below.

Please check the box before the Enable to use this function. After you complete the setup, please click the Save button to save your current setup.

The system can automatically upload the alarm message when the external alarm occurs.
-			
Configuration			
🖳 Control Panel		ALARM CENTER	
🖃 📝 Query System Info	🔽 Enable		
VERSION	Server IP	10 . 1 . 0 . 2	
HDD INFO	Serverin	10.1.0.2	
LOG	Port	0 0~65535	
System Config GENERAL		1	
	Day	Everyday 💌	
	Hour	8 🗸	
E E NETWORK			
- EMAIL			
DDNS			
🧰 NAS 🎦 NTP			
ALARM			
DETECT			
PAN/TILT/ZOOM			
DEFAULT/BACKUP			
HDD MANAGEMENT			
Record			
SNAPSHOT			
AUTO MAINTENANCE			
🗄 🧀 ADDTIONAL FUNCTION			Save Refresh

Figure 7-37

Parameter	Function
Server IP	Please input the server IP that receive the alarm.
Port	The value ranges from 0 to 65535.
Day	The option ranges from Sunday to Saturday. The option also includes;: none/every day.
Time	The value ranges from 0 to 23.

Advanced

The advanced interface is shown as in Figure 7-38.

• Multiple cast

Please refer to chapter 5.3.5.3 for detailed multiple cast setup information.

• PPPoE

Please input the PPPoE user name and password you get from the IPS (internet service provider) and enable PPPoE function. Please save current setup and then reboot the device to get the setup activated.

Device connects to the internet via PPPoE after reboot. You can get the IP address in the WAN from the IP address column.

Note:

After PPPoE successful dial, you need to go to the device local end to get device current IP address and then use the client-end to access this IP address.

				Advance		
📝 Query System Info		MULTICAST	-			
VERSION	Service	MULTICAST	•			
HDD INFO	User			IP Address	239.255.4	2 42
LOG	0.00				1	
System Config	Password			Port	36666	1~65500
ENCODE						
SCHEDULE						
R5232						
E NETWORK						
Advance						
EMAIL						
DDNS						
NAS						
🖂 🔤 NTP 📃						
ALARM CENTER						
🗀 UPNP						
alarm						
- DETECT						
- PAN/TILT/ZOOM						
- DEFAULT/BACKUP						
Sector Advanced						
- HDD MANAGEMENT						
- Carlor Abnormality						
— 🧀 Alarm I/O Config						
- Record						
- ACCOUNT						
- SNAPSHOT					Save	Refresh
AUTO MAINTENANCI						
ADDTIONAL FUNCTION GARD OVERLAY						

Figure 7-38

7.6.2.6 Alarm

Alarm setup interface is shown as in _____Figure 7-39.

Please make sure you have connected the corresponding alarm output device such as the light, buzzer and etc.

Configuration					×
Control Panel	Event Type	ALARM			
HDD INFO	Alarm In	Input 01 💌 🗸	Туре	Normal Open 💌	
GENERAL	Period	Set	Anti-dither	5 sec. 0~600	
SCHEDULE	🗌 Alarm Out	1 2			
	Latch 🔽 Record Channel	10 sec. 1~300	🔽 Alarm Upload	I	
PAN/TILT/ZOOM	Record Latch	10 sec. 10~300 Show Message	SMS	🗖 Buzzer	
ADVANCED HDD MANAGEMENT ABNORMALITY	Tour	1 2 3 4) Durrer	
ALARM I/O CONFIG	FTZ Activation Capture	Set 1 2 3 4			
VEHICLE CONFIG					
Auto Register Preferred DNS G	Copy		S	ave Refresh	
Mobile Config					
<u> </u>					

Figure 7-39

Please refer to the following sheet for detailed information.

Parameter Function

Parameter	Function		
Event	It includes local alarm/network alarm.		
Туре	Local alarm: Device detects alarm from input port.		
	Network: Device detects alarm from network.		
Alarm in	Select corresponding alarm channel.		
Enable	You need to draw a circle here so that system can detect the alarm		
	signal.		
Туре	There are two options: normal open and normal close. NO becomes		
	activated in low voltage, NC becomes activated in high voltage.		
Period	Alarm record function becomes activated in the specified periods.		
i onou	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 alarm setup interface, please		
	click save button to exit.		
Anti-dither	System only memorizes one event during the anti-dither period. The		
	value ranges from 0 to 15s.		
Normal	Enable alarm activation function. You need to select alarm output port		
Out	so that system can activate corresponding alarm device when alarm		
	occurred.		
Alarm	System can delay the alarm output for specified time after alarm		
Latch	ended. The value ranges from 1 second to 300 seconds.		
Alarm	System can upload the alarm signal to the centre (Including alarm		
upload	centre.		
Record	System auto activates current channel to record once alarm occurs		
Channel	(working with alarm activation function). Please note current device		
	shall be in auto record mode (Chapter 4.4 Schedule).		
Record	System can delay the record for specified time after alarm ended. The		
Latch	value ranges from 10s to 300s.		
SMS	Once you checked the box here, the device can send out the		
	message to the specified cell phone when alarm occurs.		
Email	Please draw a circle to enable email function. System can send out		
	email to alert you when alarm occurs and ends.		
Tour	Display the selected video in local monitor window.		
	Tour interval and tour mode are set in DVR local menu (chapter 5.3.9		
	Display)		
Buzzer	Once you checked the box here, the buzzer beeps when an alarm occu		
Capture	You need to input capture channel number so that system can backup		
	snapshot file when alarm occurs.		
Сору	It is a shortcut menu button. You can copy current channel setup to		
	one or more (all) channels.		
Save	You can click save button after you complete setup for one channel,		
	or you can complete the whole setups and then click save button.		
Refresh	Click this button to get device latest configuration information.		

7.6.2.7 Detect

Analysis the video, system enable motion detection alarm when it detects the motion signal reached the specified sensitivity.

The detection interface is shown as in _____Figure 7-40.

Configuration				x
📃 Control Panel	·	DETECT	Г	
🛱 🦉 QUERY SYSTEM INFO	Event Type	Motion Detec 🔻		
VERSION				
HDD INFO	Channel	Channel O1 💌 🗹	Sensitivity 3 💌	
LOG	Region	Select		
	Period	Set	Anti-dither 5 sec. 0~600	
			Anti-dither p sec. 0 600	
SCHEDULE	🗌 Alarm Out	1 2		
	Latch	10 sec. 1~300	🔽 Alarm Upload	
	✓ Record Channel	1 2 3 4		
			F and	
	Record Latch	10 sec. 10~300	SMS	
ADVANCED	🥅 Send Email	🥅 Show Message	D Buzzer	
HDD MANAGEMENT	Tour	1 2 3 4		
ABNORMALITY	PTZ Activation	Set		
ALARM I/O CONFIG	Capture	1 2 3 4		
Record)Capture			
VEHICLE CONFIG				
E 📄 ADDTIONAL FUNCTION				
Auto Register				
Preferred DNS	Сору		Save Refresh	
Mobile Config				
- Mobile Coning				

Figure 7-40



Figure 7-41

Parameter	Function
Event	There are three types: Motion detection/video loss/Camera Masking.
Туре	
Channel	Select channel name from the dropdown list.
Enable	You need to draw a circle to enable motion detection function.
Sensitivity	There are six levels. The sixth level has the highest sensitivity.

Parameter	Function
Region	There are six levels. The sixth level has the highest sensitivity.
U	Region: If you select motion detection type, you can click this button
	to set motion detection zone. The interface is shown as in
	X469H469H469H439H439H439H446H409HFigure 7-41. There are
	PAL 22X18/NTSC 22X15 zones. Right click mouse you can go to full-
	screen display mode. Do remember clicking OK button to save your
	motion detection zone setup.
Period	Motion detection 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 motion detection interface;
	please click save button to exit.
Anti-dither	System only memorizes one event during the anti-dither period. The
	value ranges from 0s to 15s.
Normal	There is 2-channel alarm output.
out	Corresponding to motion detection alarm output port(multiple choices)
	Enable alarm activation function. You need to select alarm output port
	so that system can activate corresponding alarm device when alarm occurs.
Alarm	System can delay the alarm output for specified time after alarm
latch	ended. The value ranges from 1s to 300s.
laton	ended. The value langes from 13 to 5003.
Alarm	System can upload the alarm signal to the centre (Including alarm
upload	centre.
Record	System auto activates motion detection channel (multiple choices) to
channel	record once alarm occurs (working with motion detection function).
	Please note you need to go to Chapter 4.4 Schedule to set motion
	detection record period and go to chapter 4.2 Manual Record to set
	current period as auto record.
Record	System can delay the record for specified time after alarm ended. The
latch	value ranges from 10s to 300s.
CMC	Once you should the here the device can could but the
SMS	Once you checked the box here, the device can send out the
	message to the specified cell phone when alarm occurs.
Email	If you enabled this function, System can send out email to alert you
	when alarm occurs and ends.
Tour	Display the selected video in local monitor window.
	Tour interval and tour mode are set in DVR local menu (chapter 5.3.9
	Display)
Buzzer	Once you checked the box here, the buzzer beeps when an alarm
	occurs.
Capture	You need to input capture channel number so that system can backup
	motion detection snapshot file.
Сору	It is a shortcut menu button. You can copy current channel setup to
	one or more (all) channels.
Save	You can click save button after you complete setup for one channel,
Defect	or you can complete the whole setups and then click save button.
Refresh	Click this button to get device latest configuration information.

7.6.2.8 PTZ

Please note, before operation please make sure you have set speed dome address. And DVR and speed dome connection is OK.

Configuration		×
📃 Control Panel		PAN/TILT/ZOOM
- Yersion United System Info	Channel	Channel 01
HDD INFO	Protocol	PELCOD -
GENERAL	Address	1 0~255
	Baudrate	115200
R5232	Data Bits	8
E I I I I I I I I I I I I I I I I I I I	Stop Bits	1
DETECT 🔄 PAN/TILT/ZOOM	Parity	None
DEFAULT/BACKUP		
HDD MANAGEMENT		
Alarm I/O Config Record		
AUTO MAINTENANCE		
	Сору	Save Refresh

Figure 7-42

Parameter	Function
Channel	You can select monitor channel from the dropdown list
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.
Save	You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.
Refresh	Click this button to get device latest configuration information.

7.6.2.9 Default & Backup

Default: Restore factory default setup. You can select corresponding items.

Backup: Export current configuration to local PC or import configuration from current PC. Please refer to ______Figure 7-43.

Please note system can not restore some information such as network IP address.

Configuration			×
Control Panel	Please select setting ent	DEFAULT/BACKUP ies that you want to default.	
HDD INFO	C Select all	Default	
GENERAL	GENERAL		
SCHEDULE	SCHEDULE	I⊄ RS232 I⊄ ALARM	
	DETECT	✓ PAN/TILT/ZOOM ✓ CHANNEL NAME	
DEFAULT/BACKUP	Config Backup		
	Default Path: C:\D	ocuments and Settings\10881\Desktop\	
ACCOUNT SNAPSHOT AUTO MAINTENANCE ADDIIONAL FUNCTION	Export Config	Import Config	

Figure 7-43

Parameter	Function
Select All	Restore factory default setup.
Export Configuration	Export system configuration to local PC.
Import Configuration	Import configuration from PC to the system.

7.6.3 Advanced

7.6.3.1 HDD Management

HDD management includes net storage management and local storage management.

Please note, if you want to use local storage function, your storage device need to support current function.

Please select the storage device first and then you can see the items on your right become valid. You can check the corresponding item here. See _____Figure 7-44.

Configuration		<u> </u>
Control Panel Query System Info VERSION VERSION Control Panel VERSION Config GENERAL GENERAL COB SCHEDULE RS232 CONTINUE CONTINU	HDD MANAGEMENT	4Ε

Figure 7-44

Parameter	Function
Format	Clear data in the CF card.
Read/write	Set current card as read/write
Read only	Set current card as read.
Recover	Recover dada after an error occurs.

Please note system needs to reboot to activate current setup.

7.6.3.2 Alarm I/O

Figure 7-45

Important

The alarm output port should not be connected to high power load directly (It shall be less than 1A) 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. Please refer to the following sheet for detailed information.

Parameter	Function
Alarm output	There are two output channels (Multiple choices).
Activate	Enable/disable alarm output device. After the Web activated the alarm, you need to cancel the channel and then click the activation button to cancel the alarm, or you need to cancel the alarm in the pop-up dialogue box in local-end.
Refresh	Search alarm output status.

7.6.3.3 Record

Record control interface is shown as in _____Figure 7-46.

Figure 7-46

Please refer to the following sheet for detailed information.

Parameter	Function
Auto	System enables auto record function as you set in record schedule setup.
Manual	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.

Operation here is the same to chapter 4.2 Manual Record. Please refer to chapter 4.2 for detailed information.

7.6.3.4 Account



Figure 7-47

7.6.3.5 Auto Maintenance

Here you can select auto reboot and auto delete old files interval from the dropdown list. See Figure 7-48.

Configuration	X
Control Panel Woury System Info WetRSION WetRSION Work System Config General Excode General Excode ScheDuLe ScheDuLe PS322 NetWORK ALARM DEFALLT(SACKUP AVANCED HOD MANAGEMENT AMORTINY AMORTINY AMORTINY AMORTINY AMORTINY AMORTINY ALARM DEFALLT(SACKUP ACCOUNT SNAPSHOT ACCOUNT ALARM ADDITONAL FUNCTION DNS	AUTO MAINTENANCE
	Save Refresh

Figure 7-48



	_
Configuration	×
Configuration Control Panel Version	SNAPSHOT
SCHEDULE R5232 R5460ULE R540	Quality 60%
	Copy Save Refresh

Figure 7-49

Please refer to the following sheet for detailed information.

Parameter	Function		
Channel	It is the monitor channel.		
Snapshot mode	There are two modes: Timing and activation.		
Frame rate	You can select from the dropdown list.		
Resolution	You can select from the dropdown list.		
Quality	You can select from the dropdown list. Here is for you to set video quality.		

7.6.3.7 Abnormity

The abnormity interface is shown as below. See Figure 7-50.

Configuration				×
📃 Control Panel	ĺ	ABNORMAL	үтт	
🚊 📝 QUERY SYSTEM INFO				
VERSION				
HDD INFO	Event Type	No Disk 🔽 🗹		
LOG				
E SYSTEM CONFIG				
🖨 🍓 ADVANCED				
HDD MANAGEMENT	_			
	🔽 Alarm Out	1 2		
ALARM I/O CONFIG				
Record	Latch	10 sec. 1~300	🔽 Alarm Upload	
ACCOUNT	Laten	10 100 1000	J• Alaim opioau	
SNAPSHOT				
AUTO MAINTENANCE			SMS	
VEHICLE CONFIG	Send Email	✓ Show Message	Buzzer	
E-E ADDTIONAL FUNCTION	J Send Email	A DITOM MEZZABE) Durrer	
Auto Register				
Preferred DNS				
🛅 3G				
🦾 🧀 Mobile Config				
1				
1				
			Save Refresh	
1				
1				
1				

Figure 7-50

Parameter	Function
Event Type	The abnormal events include: no disk, no space, disk error, net error.You need to draw a circle to enable this function.
Normal Out	The corresponding alarm activation output channel when alarm occurs, There are 7 channels.
Latch	The alarm output can delay for the specified time after alarm stops. Then system disables alarm and corresponding activation output.
Send email	If you enable this function, system can send out email to alarm the specified user. Please note this function is null when net error occurs.
Alarm upload	System can upload the alarm signal to the network (includes the alarm centre.)
Show message	System can display alarm information in local DVR screen.
SMS	Once you checked the box here, the device can send out the message to the specified cell phone when alarm occurs. Please note this function is null when net error occurs.
Buzzer	Once you checked the box here, the buzzer beeps when an alarm occurs.

7.6.3.8 Vehicle Configuration

The vehicle configuration interface is shown as below. See Figure 7-51.

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

Configuration		×
Configuration Control Panel ULERY SYSTEM INFO ULERY SYSTEM INFO ULERY ULER	VEHICLE Config	X
Record ACCOUNT SNAPSHOT AUTO MAINTENANCE VEHICLE CONFIG AUTO Register Preferred DNS G Mobile Config	BoardName 1 Channel 01 V Board Set V EncodeOSD	 ✓ FrontDoor Alarm □ BackDoor Alarm □ TurnLeft Alram
	GPS Set V EncodeOSD	☐ TurnRight Alarm ☑ Brake Alarm Save Refresh

Figure 7-51 Vehicle Configuration

Please refer to the following sheet for detailed information.

Parameter	Function
Auto boot up	You can check the box to enable this function and then input the auto boot up time.
Auto shutdown	You can check the box to enable this function and then input the auto shutdown time.
Auto shutdown delay time	Please input the auto shutdown delay time here.
Plate number	Please input your plate number here.
Channel	You can select a channel from the dropdown list.
Plate	You can click the set button to set the plate information in the proper position and then check the encode OSD box.
GPS	You can click the set button to set the GPS information in the proper position and then check the encode OSD box.
Front door alarm	Please check the box here to enable this function. It can enable the bit stream overlay function.
Back door alarm	You can view the alarm overlay information in the real-time record via the Web.
Left-turn light alarm	
Right-turn light alarm	
Brake light alarm	

7.6.4 Additional Function

7.6.4.1 DNS

Figure 7-52 DNS

7.6.4.2 Auto Register

Auto register interface is shown as below. See Figure7-53.

Configuration	X
Control Panel Contro	I Enable No. 1 I IP beijing.bus.tech.com
	Port 12348
AUTO REAL ABNORMITY ABNORMITY ABNORMITY AIsm I/O Config Record ACCOUNT SNAPSHOT AUTO MAINTENANCE AUTO MAINTENANCE AUTO Register	Device ID DVR
	Save Refresh

Figure 7-53 Auto Register

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	Enable auto register function.

No.	Device management server number.
IP	Device management server IP address.
Port	Server port number.
Device ID	Device ID in the device management server.

7.6.4.3 CDMA/GPRS

Please note only the unit of 3G module supports this function.

The CDMA/GPRS interface is shown as below. See Figure 7-54.

Image: System Info Image: System Info Image: WIXSION Wireless Type Image: WIXSION Wireless Type Image: WIXSION Wireless Type Image: WIXSION APN Image: WIXSION Image: WIXSION Image: WIXSION Image: WIXSION<
ABRORMITY Alarm I/O Config Record ACCOUNT ACCOUNT AUTO MAINTENANCE AUTO MAINTENANCE AUTO INAL FUNCTION Config Auto Register Freferred DNS

Figure 7-54 CDMA/GPRS

Sunday		×
Defa	ult Current	
Period 1	0:00:00 🔹 🛛 23:59:59 🔹 🔽	
Period 2	0:00:00 📫 23:59:59 📫 🗖	
Period 3	0:00:00 📫 🛛 23:59:59 📫 Г	
Period 4	0:00:00 🔹 — 23:59:59 🔹 Г	
Period 5	0:00:00 + 23:59:59 +	
Period 6	0:00:00 📫 23:59:59 🐳 🗖	
A11		
🔽 Sun	🗌 Mon 🔲 Tue 🔲 Wed	
🕅 Thu	🗖 Fri 🦳 Sat	
	Ok Cancel	

Figure 7-55 Schedule Setup

Parameter		Function				
Wireless type		You can select from the dropdown list.				
Enable		Please check the box to enable the selected function.				
APN		Please input the connection name here.				
Dial/SMS activate state		There are two types for the device to connect to the 3G. It includes the dial-up and sms.				
Dial-up nu	mber	Please input 3G network dialup number here.				
Username		The user name for you to login the 3G network.				
Password		The password for you to login the 3G network.				
Keep alive	time	You can set dialup duration. Once you disable the extra stream, the connection time begins. For example, if you input 5 seconds here, then 3G network connection period is 5 seconds. The device automatically disconnect when time is				
		 up. If there is no extra stream, 3G network connection is valid all the time. If the alive time is 0, then the 3G network connection is valid all the time. 				
Period		Click set button, the interface is shown as in Figure 7-55.				
		You can set the period to connect to the 3G network. System only enables wireless network dialup function during the specified period.				
I		There are max six periods in one day.				
Wireless network status	Login status	You can see device has registered to the 3G network or not.				
Status	IP address	After the Radius server verification, you can see the device IP address the DHCP server allocated to.				
	Subnet mask	After the Radius server verification, you can see the device subnet mask the DHCP server allocated to.				
	Gateway	After the Radius server verification, you can see the device gatewat the DHCP server allocated to.				
Wireless signal	CDMA_1X signal	 You can view current 3G network signal. After the device connected to the EVDO module, you can view CDMA_1x network signal. After the device connected to the W-CDMA or TD module, you view the EDGE network signal. 				
	EVDO signal	 You can view current 3G network signal. After the device connected to the EVDO module, you can view EVDO signal. After the device connected to the W-CDMA module, you can view W_CDMA network signal here. After the device connected to TD module, you can view TD-SCDMA network signal here. 				
Save		Click this button to save current setup.				

Refresh Click this button to get device latest configuration.

7.6.4.4 Mobile Configuration

Please note only the unit of 3G module supports this function.

Mobile configuration interface is shown as in Figure 7-56.



Figure 7-56 Mobile Configuration

Please refer to the following sheet for detailed information.

Parameter	Function
Send event message	Device can send the event message (alarm information, motion detection and etc) to the mobile user. You can check the box to enable the function.
Receiver	You can input one or more mobile number(s) here to receive the message.
SMS activate	The mobile user can send out message to activate the device to connect to the 3G network.
	You need to check the box to enable current function.
	Please note the contents shall not be capitalized and there shall be no blank.
Sender	You can input several senders' mobile number here.
Dial activate	The mobile user can give a call to activate the device to connect to the 3G network.
	You need to check the box to enable current function.
	Please note the dial activate function is to control the connection. You can not use this function to disconnect the wireless connection.
Caller	You can input several senders' mobile number here.
Add	Click it to add the corresponding mobile phone user.
Delete	Click it to remove the corresponding mobile phone user.

	There are two types: SMS and MMS.
Message type	Right now system supports SMS only.
Title	You can input message subject here.
Event message save	System can save the message receiver number so that device can send out alarm (motion detect) message to the specified mobile phone(s).
SMS save	System can save the mobile phone number which can send out the message to activate the device.
	Before the operation, please make sure you device can connect to the 3G network and you have enabled the 3G function.
	When the specified mobile number sends out the message "on" to the device, the device begins 3G dial up and then connect to the 3G network.
	When the specified mobile number sends out the message "off" to the device, the device disconnects the network and then becomes offline.
	Please make sure the content contains small characters only and there is no backspace.
Dial save	System can save the mobile phone number which can dial the device to enable it to connect to the 3G network.
	Before the operation, please make sure you device can connect to the 3G network and you have enabled the 3G function.
	When the specified mobile phone number gives a call to the device, the user can hear device prompt: The user is busy now. Then the device begins dial up and connects to the 3G network.
Refresh	Click this button to get device latest configuration.

7.7 Search

Click search button, you can see an interface is shown as in Figure 7-57 Please select record playback mode, and then select start time, end time and channel. Then please click search button, you can see the corresponding files in the list.

Type Parameter			Operation					
C Alarm				• 15:46:29 •		Search Playback		
СМ	otion End	l Time	2009- 7-14	▼ 15:46:29	•	Download Type File 💌		
C Lo	cal Cha	annel	All	•				
C Pi	oture					Open Local Re	ecord	
C Ca	ard			Earliest	Rec			
S/N	File Size(KB)	Begin 1		End Time		Record Type	Chan.	
1	79138	2009-07-10 13:20:52		2009-07-10 13:36:4		Regular	1	
2 3	35737 90048		7-10 13:36:4	2009-07-10 1 2009-07-14 9		Regular Regular	1	
4	168291	2009-07-14 9:4:13 2009-07-14 9:24:59		2009-07-14 10:0:0		Regular	1	
5	109244	2009-07-14 10:0:0		2009-07-14 10:22:10		Regular	î	
6	180764	2009-07-14 10:22:48		2009-07-14 11:0:0		Regular	1	
7	271779	2009-07-14 11:0:0		2009-07-14 12:0:0		Regular	1	
8	272841	2009-0	7-14 12:0:0	2009-07-14 1	2009-07-14 12:58:50		1	
9	905979		7-14 12:58:50	2009-07-14 1		Regular	1	
10	534		7-14 13:57:38	2009-07-14 1		Regular	1	
11	8699		7-14 13:57:45	2009-07-14 1		Regular	1	
12	1025		7-14 13:58:21	2009-07-14 1 2009-07-14 1		Regular Begular	1	
<	131902	2009-0	7-14 13:58:33 III	2009-07-14-1	4.7.18	Becular	>	
			Dee	e Down				



Select the file(s) you want to download and then click download button, system pops up a dialogue box shown as in ______Figure 7-58, then you can specify file name and path to download the file(s) to your local pc.

Save As	2 🔀
Save in: 🞯 Desktop	- 🖬 🍎 📰 -
I My Computer My Documents My Network Places	
	5
File <u>n</u> ame:	Save
Save as type: dav Files(*.dav)	Cancel



Now you can see system begins download and the download button becomes stop button. You can click it to terminate current operation.

At the bottom of the interface, there is a process bar for your reference. See Figure 7-59.

	Earliest Rec	Stop Open Local Re		
Time	End Time	Record Type	Chan.	
	2009-07-10 13:36:4	Regular	1 =	
			1	
07-14 9:4:13	2009-07-14 9:24:24	Regular	1	
07-14 9:24:59	2009-07-14 10:0:0	Regular	1	
07-14 9:24:59 07-14 10:0:0	2009-07-14 10:0:0 2009-07-14 10:22:10	Regular Regular	1	
07-14 9:24:59 07-14 10:0:0 07-14 10:22:48	2009-07-14 10:0:0 2009-07-14 10:22:10 2009-07-14 11:0:0	Regular Regular Regular	1 1 1	
07-14 9:24:59 07-14 10:0:0 07-14 10:22:48 07-14 11:0:0	2009-07-14 10:0:0 2009-07-14 10:22:10 2009-07-14 11:0:0 2009-07-14 11:0:0	Regular Regular Regular Regular	1 1 1 1	
07-14 9:24:59 07-14 10:0:0 07-14 10:22:48 07-14 11:0:0 07-14 12:0:0	2009-07-14 10:0:0 2009-07-14 10:22:10 2009-07-14 11:0:0 2009-07-14 11:0:0 2009-07-14 12:0:0 2009-07-14 12:58:50	Regular Regular Regular Regular Regular	1 1 1 1 1	
07-14 9:24:59 07-14 10:0:0 07-14 10:22:48 07-14 11:0:0 07-14 11:0:0 07-14 12:0:0 07-14 12:58:50	2009-07-14 10:0:0 2009-07-14 10:22:10 2009-07-14 11:0:0 2009-07-14 12:0:0 2009-07-14 12:58:50 2009-07-14 13:57:38	Regular Regular Regular Regular Regular Regular	1 1 1 1 1 1 1	
07:14 9:24:59 07:14 10:00 07:14 10:22:48 07:14 11:00 07:14 12:00 07:14 12:58:50 07:14 13:57:38	2009-07-14 10:0:0 2009-07-14 10:22:10 2009-07-14 10:22:10 2009-07-14 12:0:0 2009-07-14 12:58:50 2009-07-14 13:57:38 2009-07-14 13:57:45	Regular Regular Regular Regular Regular Regular Regular	1 1 1 1 1 1 1 1	
07-14 9:24:59 07-14 10:00 07-14 10:22:48 07-14 11:0:0 07-14 12:00 07-14 12:58:50 07-14 12:57:38 07-14 13:57:38	2009-07-14 10:0.0 2009-07-14 10:22:10 2009-07-14 11:0.0 2009-07-14 12:0.0 2009-07-14 12:58:50 2009-07-14 13:57:38 2009-07-14 13:57:45 2009-07-14 13:58:21	Regular Regular Regular Regular Regular Regular Regular Regular	1 1 1 1 1 1 1	
07:14 9:24:59 07:14 10:00 07:14 10:22:48 07:14 11:00 07:14 12:00 07:14 12:58:50 07:14 13:57:38	2009-07-14 10:0:0 2009-07-14 10:22:10 2009-07-14 10:22:10 2009-07-14 12:0:0 2009-07-14 12:58:50 2009-07-14 13:57:38 2009-07-14 13:57:45	Regular Regular Regular Regular Regular Regular Regular	1 1 1 1 1 1 1 1	
	1 Time 07-10 13:20:52 07-10 13:36:4	Time End Time 07/10 13:20:52 2009-07-10 13:36:4 07-10 13:36:4 2009-07-10 13:42:17	Time End Time Record Type 07/10 13:20:52 2009:07:10 13:36:4 Regular 07-10 13:36:4 2009:07:10 13:42:17 Regular	



When download completed, you can see a dialogue box shown as in Figure 7-60. Please click OK to exit.



Figure 7-60

atermark			Đ
Verify Watermark Info	Stop		
Watermark Revis	ed Time	Position	

Figure 7-61 Watermark

Туре	Parameter	Function			
Туре	Record	Search general record, alarm record and motion			
l'ype	Record	detection record.			
	Alarm	Search alarm record.			
	Motion	Search motion detection record.			
	Detection				
	Local	Search local record.			
	Snapshot	Search snapshot file.			
	Card	This function is not available in current device.			
Item	Begin time	Set the file start time. You can select from the dropdown list.			
	End time	Set the file end time. You can select from the dropdown list			
	Channel	Select the channel from the dropdown list.			
Operation	Search	Click this button you can view the recorded file matched your requirements. There are 100 files in one screen. You can use pg up/down button to view more files.			
	Playback	Select the file first and then click playback button to view the video.			
	Download	Download by file: Select the file(s) and then click			
	type	download button. Download by time: Download the recorded file(s) within your specified period.			
	Download	Select the file you need (multiple choices) and then click download button, you can see system pops up a dialogue box. SeeFigure 7-65 Input the downloaded file name, specify the path and then click OK button. You can see system begins download and the download becomes stop button. There is a progress bar for your reference.			
	Open local record	Select local record to play.			
	Watermark	Please note, you need to go to chapter 3.2.2 Encode to enable watermark function first. Click watermark button, system pops up a dialogue box shown as in Figure 7-61. Default watermark character is DigitalCCTV. Click local file you can select the recorded file. Then you can click verify button to check file is original or not.			
Earliest rec		Select a channel first and then click the earliest record button; you can view the earliest record of the current channel in the CF card.			
Multiple-ch playback	annel	System supports playback one file in several monitor channels.			

During the playback process, you can see there are control buttons such as play, pause, stop. slow play and fast play in the play process bar. You can view current playback file channel name, time and data statistics.

In the search result interface, you can select one or more files to download to your local PC.

The playback control bar is shown as below. See _____Figure 7-62.

- 1: Play
- 2: Pause
- 3: Stop

4: Slow play

5: Fast play



Figure 7-62

7.8 Alarm

Click alarm function, you can see an interface is shown as in _____Figure 7-63. Here you can set device alarm type and alarm sound setup.

Please make sure you have enabled the alarm upload function at the device-end.

	Encoder A	klarm Al.	veration(External / Listen Alarm arm Sound Sound Pop-up und Path	Alarm can not open v	
lime	Device ID	Event Type		arm Port/Channel	

Figure 7-63

Please make sure current device can upload the alarm.

Туре	Parameter	Function
Alarm	Video loss	System alarms when video loss occurs.
Туре	Motion detection	System alarms when motion detection alarm occurs,
	Disk full	System alarms when CF card is full.
	Disk error	System alarms when CF card error occurs.
	Camera masking	System alarms when camera is viciously masking.
	Encode alarm	System alarms when peripheral device alarms.
	External alarm	Alarm input device sends out alarm.
Operation	Listen alarm	System notifies web when alarm occurs (you select from the above event type), and then web can notify user.
	Video	When alarm occurs, system auto enables video monitor. This function only applies to video detection alarm (motion detection, video loss and camera masking).
	Prompt	Automatically pops up alarm dialogue box.
	Sound pop up	System sends out alarm sound when alarm occurs. You can specify as you wish.
	Path	Here you can specify alarm sound file.

7.9 About



Figure 7-64

7.10Log out

Click log out button, system goes back to log in interface. See _____Figure 7-65 You need to input user name and password to login again.

C WEBservice - Windows Internet Explorer			
- R http://10.10.3.16/		✓ 47 × 投税	P •
😭 🏟 🍘 WEBservice		<u>0</u> • ⊠ • ⊕ • D	
	WEB Service 12.0 Use Name Passwort Login		
Done		🏹 🍚 Internet	R 100% •

Figure 7-65

7.11 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 uninstallation might result in error.

8 Professional Surveillance System

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

9 FAQ

1. DVR can not boot up properly.

There are following possibilities:

- Input power is not correct.
- Power connection is not correct.
- Power switch button is damaged.
- Program upgrade is wrong.
- CF card malfunction or something wrong with CF card.
- Main board is damaged.

2. The driver how to control the mobile DVR

The device has different working modes according to the cable connection ways.

- For the general setup mode, you can use the key ignition ACC to control. The device works when the ACC is on. Device shuts down according to the your delay setup when the ACC is off.
- For the schedule boot up and shut down mode, you can set the schedule boot up and shut down time.

3. DVR often automatically shuts down or stops running.

There are following possibilities:

- Input voltage is not stable or it is too low.
- Improper installation or the components connection is loose.
- Working environment is too harsh, too much dust.
- Hardware malfunction.

4. System can not detect CF card.

There are following possibilities:

- There is no CF card.
- CF card is broken.
- CF card cable connection is loose.
- CF card is broken.

5. 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.

6. 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.

7. Can not search local records.

There are following possibilities:

- CF card connection is loose or the installation is improper.
- CF card is broken.
- Upgraded program is not compatible.
- The recorded file has been overwritten.
- Record function has been disabled.

8. 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.
- CF card malfunction.
- DVR hardware malfunctions.

9. 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.

10. 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.

11. 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.

12. 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.

13. Motion detection function does not work.

There are following possibilities:

- Period setup is not correct.
- Motion detection zone setup is not correct.
- Sensitivity is too low.
- For some versions, there is hardware limit.

14. 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.

15. 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.

16. 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.

17. 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.

18. 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.

19. 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.

20. 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.

21. 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.
- CF card capacity is not enough.
- CF card is damaged.

22. Can not playback the downloaded file.

There are following possibilities:

- There is no media player.
- No DXB8.1 or higher graphic acceleration software.
- There is no DivX503Bundle.exe control when you play the file transformed to AVI via media player.
- No DivX503Bundle.exe or ffdshow-2004 1012 .exe in Windows XP OS.

23. After the device booted up, the buzzer beeps and the error light is on. System begins to reboot.

The system detects the USB device error and auto reboot.

24. When I delete the local setup interface via the COM control interface, the local IP restore the default setup.

Please note this function is for R&D engineer to debug. Please use the RESTE button of the interface to clear the setup.

25. 3G signal is 0 or 99

There are following possibilities:

- The station signal is too weak.
- 3G antenna is damaged. Please check the 3G antenna connection.
- Reboot the device to search the signal again if you can make sure the 3G antenna is OK.

26. 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.

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 CF card. 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 inducedvoltage.

- 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 antivibration component can work properly.
- Please check and maintain the DVR regularly.