

DVR-3270PKD



User's Guide

Table of Contents

1	FEATURES AND SPECIFICATIONS	1
1.1	Overview	1
1.2	Features	1
1.3	Specifications	2
1.3	3.1 1.5U Series	2
1.3	3.2 2U & 3U Series	5
2	OVERVIEW AND CONTROLS	
2.1	Front Panel	
2.2	1.1 1.5U series	
2.1	1.2 2U series	
2.7	1.3 3U series	
2.2	Rear Panel	14
2.2	2.1 1.5U series	
2.2	2.2 2U series	
2.2	2.3 3U series	
2.3	Connection Sample	
2.4	Remote Control	
2.5	Mouse Control	
2.6	Virtual Keyboard & Front Panel	21
2.6	6.1 Virtual Keyboard	
2.6	6.2 Front Panel	
3	INSTALLATION AND CONNECTIONS	

3.1	Check Unpacked DVR	22
3.2	About Front Panel and Real Panel	
3.3	HDD Installation	
3.4	Rack Installation	23
3.5	Connecting Power Supply	23
3.6	Connecting Video Input and Output Devices	
3.6. 3.6.	5	
3.7	Connecting Audio Input & Output, Bidirectional Audio	
3.7. 3.7.	•	
3.8	Alarm Input and Output Connection	25
3.8	3.1 Alarm Input and Output Details	
3.8.	•	
3.8.	3.3 Alarm Output Port	27
3.9	RS232	
3.10	RS485	
3.11	Other Interfaces	
4 (OVERVIEW OF NAVIGATION AND CONTROLS	29
4.1	Login, Logout & Main Menu	
4.1.	.1 Login	
4.1.	C C C C C C C C C C C C C C C C C C C	
4.1.	5	
4.1.	.4 Auto Resume after Power Failure	

4.1	1.5 Replace Button Battery	
4.2	Live Viewing	
4.3	Manual Record	
4.4	Search & Playback	
4.5	Schedule	
4.4.	1.1 Schedule Menu	
4.5		
4.5	5.3 Image FTP	
4.6	Detect	44
4.5	.1 Go to Detect Menu	44
	2 Motion Detect	
	3.3 Video Loss	
	5.4 Camera Masking	
4.7	Alarm Setup and Alarm Activation	
17	7.1 Go to alarm setup interface	49
4.7		
4.7	7.2 Alarm setup	
	7.2 Alarm setup	
4.7 4.8	Backup	
4.7 4.8 4.7	Backup 7.1 Detect Device	52
4.7 4.8	Backup	52
4.7 4.8 4.7	Backup 7.1 Detect Device	52
4.7 4.8 4.7 4.8 4.9	Backup 7.1 Detect Device 3.1 Backup	
4.7 4.8 4.7 4.8 4.9 4.8.	Backup 7.1 Detect Device 3.1 Backup PTZ Control and Color Setup	
4.7 4.8 4.7 4.8 4.9 4.8. 4.8.	Backup 7.1 Detect Device 3.1 Backup PTZ Control and Color Setup 3.1 Cable Connection	
4.7 4.8 4.7 4.8 4.9 4.8. 4.8.	Backup 7.1 Detect Device 3.1 Backup PTZ Control and Color Setup 8.1 Cable Connection 8.2 PTZ Setup	
4.7 4.8 4.7 4.8 4.9 4.8 4.8 4.8 4.8 4.8	Backup 7.1 Detect Device 3.1 Backup PTZ Control and Color Setup 3.1 Cable Connection 3.2 PTZ Setup 3.3 3D Intelligent Positioning Key	
4.7 4.8 4.7 4.8 4.9 4.8. 4.8. 4.8 4.8 4.8 4.8 4.8	Backup 7.1 Detect Device 3.1 Backup PTZ Control and Color Setup 3.1 Cable Connection 3.2 PTZ Setup 3.3 3D Intelligent Positioning Key Preset/ Patrol/Pattern/Scan	
4.7 4.8 4.7 4.8 4.9 4.8 4.8 4.8 4.8 4.10 4.9 4.9	Backup 7.1 Detect Device 3.1 Backup PTZ Control and Color Setup 8.1 Cable Connection 8.2 PTZ Setup 3.3 3D Intelligent Positioning Key Preset/ Patrol/Pattern/Scan 9.1Preset Setup	
4.7 4.8 4.7 4.8 4.9 4.8. 4.8. 4.8. 4.8 4.8 4.8 4.8 4.9 4.9 4.9 4.9 4.9	Backup 7.1 Detect Device 3.1 Backup PTZ Control and Color Setup 8.1 Cable Connection 8.2 PTZ Setup 8.3 3D Intelligent Positioning Key Preset/ Patrol/Pattern/Scan 9.1 Preset Setup 9.2 Activate Preset	
4.7 4.8 4.7 4.8 4.9 4.8 4.8 4.8 4.8 4.8 4.8 4.9 4.9 4.9 4.9 4.9	Backup 7.1 Detect Device 3.1 Backup PTZ Control and Color Setup 8.1 Cable Connection 8.2 PTZ Setup 3.3 3D Intelligent Positioning Key Preset/ Patrol/Pattern/Scan 9.1 Preset Setup 9.2 Activate Preset 9.3 Patrol setup (Tour Setup)	

	Auto Scan Setup	
4.9.8	Activate Auto Scan	
4.11 I	Flip	50
4.11 1	г IIP	
5 UN	NDERSTANDING OF MENU OPERATIONS AND C	ONTROLS 61
5.1 I	Menu Tree	
5.2 1	Main Menu	61
5.3	Setting	62
5.3.1	General	
5.3.2	Encode	
5.3.3	Schedule	
5.3.4	RS232	
5.3.5	Network	
5.3.6	Alarm	
5.3.7	Detect	
5.3.8	Pan/Tilt/Zoom	
5.3.9	Display	
5.3.10) Default	
5.4 \$	Search	
5.5	Advanced	84
5.5.1	HDD Management	
5.5.2	Abnormity	
5.5.3	Alarm Output	
5.5.4	Manual Record	
5.5.5	Account	
5.5.6	Auto Maintain	
5.5.7	TV Adjust	
5.5.8	Video Matrix	
5.5.9	Card Overlay	
5.5.10) Config File Backup	
5.6 I	Information	
5.6.1	HDD Information	
5.6.2	BPS	

5.6.3	Log	
5.6.4	Version	
5.6.5	Online Users	
5.7	Shutdown	
	BOUT AUXILIARY MENU	100
6 AE		
6.1 (Go to Pan/Tilt/Zoom Menu	
6.1.1	3D Intelligent Positioning Key	
6.2 I	Preset /Patrol / Pattern /Border Function	
6.2.1	Preset Setup	
6.2.2	Activate Preset	
6.2.3	Patrol Setup	
6.2.4	Activate Patrol	
6.2.5	Pattern Setup	
6.2.6	Activate Pattern Function	
6.2.7	Border Setup	
6.2.8	Activate Border Function	
6.2.9	Flip	
7 WI	EB CLIENT OPERATION	105
7.1 I	Network Connection	
7.2 I	Login	
7.3 I	LAN Mode	
7.3.1	Real-time Monitor	108
7.3.2	PTZ	
7.3.3	Color	
7.3.4	Picture Path and Record Path	
7.4	WAN Login	
7.5	Configure	
7.5.1	System Information	

7.5.2	2 System	n Configuration	119
7.5.3		ced	
7.5.4	4 Additio	onal Function	147
7.6	Search		150
7.7	Alarm		153
7.8	About		154
7.9	Log out		154
7.10	Un-install	Web Control	154
8 F	PROFESS	SIONAL SURVEILLANCE SYSTEM	155
9 F	-AQ		156
APPE	ENDIX A	HDD CAPACITY CALCULATION	161
APPE	ENDIX B	COMPATIBLE BACKUP DEVICE LIST	162
APPE		COMPATIBLE CD/DVD DEVICE LIST	166
APPE	ENDIX D	COMPATIBLE DISPLAYER LIST	167
APPE	ENDIX E	COMPATIBLE SWITCHER LIST	168
APPE	NDIX F	COMPATIBLE WIRELESS MOUSE LIST	169
APPE	ENDIX G	EARTHING	170

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.

This series product shall be transported, storage and used in the environment ranging from 0 $^\circ \rm C$ to 55 $^\circ \rm C$

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.

7. Lithium battery

Improper battery use may result in fire, explosion, or personal injury! When replace the battery, please make sure you are using the same model!

1 FEATURES AND SPECIFICATIONS

1.1 Overview

This series product is an excellent digital monitor product designed for security field. It adopts embedded Linux OS to maintain reliable operation. Popular H.264 compression algorithm and G.711 audio compression technology realize high quality, low bit stream. Unique frame by frame play function is suitable for detail analysis. It has various functions such as record, playback, monitor at the same time and can guarantee audio video synchronization. This series product has advanced technology and strong network data transmission function.

This series device adopts embedded design to achieve high security and reliability. It can work in the local end, and at the same time, when connecting it to the professional surveillance software (PSS), it can connect to security network to realize strong network and remote monitor function.

This series product can be widely used in various areas such as banking, telecommunication, electric power, interrogation, transportation, intelligent resident zone, factory, warehouse, resources, and water conservancy.

1.2 Features

This series product has the following features:

Real-time monitor

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

System supports TV/VGA/HDMI 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). Client-end user can download the file to local HDD to backup via network.

• Record playback function

Support each channel real-time record independently, and at the same time it can support 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 remote PTZ control.

• Alarm activation function

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

• Communication port

RS485 port can realize alarm input and PTZ control.

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.

Dual Ethernet ports support configuration modes such as multiple access, Fault-tolerance and load balancing.

• 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

• UPnP

It is to establish the mapping relationship between the LAN and the WAN via the UPnP protocol.

Slight function differences may be found due to different series.

1.3 Specifications

1.3.1 1.5U Series

	Parameter	24-ch	32-ch	
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	Front panel, USB mouse, remote co	ntrol	
	Input Method	Arabic number, English character, donation and extension Chinese (optional)		
		Copy/paste operation, USB mouse ri USB mouse to switch screen.	ight-key shortcut menu, double click	
Compression Standard	Video Compressio n	o H.264		

	Audio Compressio n	G.711A			
	Video Input	24-CH composite video input: (NTSC/PAL) BNC (1.0V _{P-P} ,75Ω)	32-CH composite video input: (NTSC/PAL) BNC (1.0 V_{P-P} , 75Ω)		
Video monitor	Video Output	1-ch PAL/NTSC, BNC (1.0VP- P, 75Ω) composite video signal output. 1-ch VGA output. 1-ch HDMI output. 1-ch matrix output. Support TV/VGA/HDMI video output at the same time.			
	Video Standard	PAL (625 line, 50f/s), NTSC (525 line	PAL (625 line, 50f/s), NTSC (525 line, 60f/s)		
	Record Speed	Real-time Mode: PAL 1f/s to 25f/s pe per channel	Real-time Mode: PAL 1f/s to 25f/s per channel and NTSC 1f/s to 30f/s per channel		
	Video Partition	1/4/8/9 /16/25windows	1/4/8/9 /16/25/36windows		
	Monitor Touring	Support monitor tour functions such schedule auto control.	as alarm, motion detection, and		
		PAL/NTSC Real-time monitor: D1 704×576/704×480			
	Resolution (PAL/NTSC)	Playback: Each channel supports: D1 704×57 352×240 , QCIF 176×144/176×120 Default resolution is 2CIF (25/30fps)			
		Support dual streams: extra stream resolution CIF 352×288/ 352×240, QCIF 176×144/176×120.			
	Image Quality	6-level image quality (Adjustable)			
	Privacy mask	Support one privacy mask of user-de Support max 4 zones.	efined size in full screen.		
	Image Information	Channel information, time information and privacy mask zone.			
	TV Adjust	Adjust TV output zone suitable to anamorphic video.			
	Channel Lock	Cover secret channel with black screen though system is encoding normally. Screen-lock function to prevent unauthorized user seeing secret video.			
	Channel Information	Channel name, recording status, screen lock status, video loss status and motion detection status are shown on the bottom left of display screen.			
	Color Configuratio n	Hue, brightness, contrast, saturation and gain setup for each channel.			
Audio	Audio Input	4-ch 200-2000mv 10KΩ(BNC)			
	Audio Output	1-ch audio output 200-3000mv 5KΩ	2(DINC)		
	Bidirectional Audio	1-ch audio talk input 200-3000mv 10 1-ch audio talk output 200-3000mv			
	Hard Disk	4 built-in SATA port. Support 4 HDD			
Hard disk	Hard Disk Occupation				

	Deserding	Manual recording, motion detection recording, schedule recording and alarm recording
Record and	Recording Mode	Priority: Manual recording> alarm recording>motion detection recording>schedule recording.
playback	Recording Length	1 to 120 minutes single record duration (Default setup is 60 minutes)
	Playback Repeat Way	When hard disk is full, system can overwrite previous video file.
	Record 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 a file is end system auto plays the next file in the current channel
	Multi- channel Playback	There is 1/4/9/16-channel playback mode. (It may vary due to different series.)
	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		HDD backup
function	Backup Mode	Support peripheral USB backup device. (Flash disk, portable disk, USB burner and etc.)
		Support peripheral eSATA backup device.
		Support network download and backup
		View monitor channel remotely.
		DVR configuration through client-end and web browser
Network	Network	Upgrade via client or browser to realize remote maintenance.
Function		View alarm information such as external alarm, motion detection and video loss via client.
		Support network PTZ lens control
	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
	Motion	Bidirectional audio.
Motion	Detection	Zone setup: support 396/330((PAL 22×18, NTSC 22×15)) detection zones.
Detection and	Detection	Various sensitivity levels.
Alarm		Alarm can activate record or external alarm or screen message prompt.
	Video Loss	Alarm can activate external alarm or screen message prompt.
	External	Support record activation function or activate external alarm or screen
	Alarm	message in specified period.
	Manual Alarm Control	Enable or disable alarm input channel Support analog alarm signal to specific alarm output channel.
	Alarm Input	16-ch alarm input (You can set normal open or normal close type to select the alarm type.)
	Alarm Output	6-channel relay output, including one controllable DC +12V output port.
	Alarm Relay	30V DC 2A, 125V AC 1A (activation alarm)

	USB	2 USB 2.0 ports.
Interface	Interface Network connection	RJ45 10M/1000M self-adaptable Ethernet port
	RS485	PTZ control port Support various PTZ control protocols.
RS232		Ordinary COM (Debug), keyboard connection and transparent serial port(COM input and output via network)
System Information	Hard Disk Information	Display HDD current status
	Data Stream Statistics	Data stream statistics for each channel (in wave mode)
	Log statistics	Backup to 1024 log files. 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 Management	User Manageme nt	Multi-lever user management; various management modes Integrated management for local user, serial port user and network user. Configurable user power.
		Support user /group and its corresponding rights modification. No limit to the user or group amount.
	Password Authenticati	Password modification Administrator can modify other user's password.
	on	Account lock strategy Five times login failure in thirty minutes may result in account lock.
Upgrade		Web browser, client-end and update tool.
		Password login protection to guarantee safety
Login, Logout a	and Shutdown	User-friendly interface when login. Provide the following options: Logout /shutdown/ restart.
		Right authentication when shut down to make sure only those proper people can turn off DVR
	Power	AC90~264V 50+2% Hz (Max 75W)
General Parameter	Power Consumptio n	25W (Exclude HDD)
	Working Temperatur e	0°C−+55°C
	Working Humidity	10%-90%
	Air Pressure	86kpa—106kpa
	Dimension	1.5U standard industrial case. 440(W) x410 (D) x70mm(H)
	Weight	4.5-5.5KG(Exclude HDD)
	Installation Mode	Desktop/rack installation

1.3.2 2U & 3U Series

	Parameter	24-ch	32-ch	64-ch
System Main Processor High-performance indust		trial embedded micro con	troller	
	OS	Embedded LINUX		

	System	Multiplex operations: Mu	Itiple-channel record mu			
	Resources	Multiplex operations: Multiple-channel record, multiple-channel playback and network operation simultaneously				
	Interface	User-friendly graphical user interface				
	Input Devices	Front panel, USB mouse				
	Input Method	(optional)	character, donation and			
	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	24-CH composite video input: (NTSC/PAL) BNC (1.0V _{P-P.} 75Ω)	32-CH composite video input: (NTSC/PAL) BNC (1.0V _{P-P} , 75Ω)	64-CH composite video input: (NTSC/PAL) BNC (1.0V _{P-P} ,75Ω)		
Video monitor	Video Output	 1-ch PAL/NTSC, BNC (1.0VP- P, 75Ω) composite video signal output. 1-ch VGA output. 1-ch HDMI output. Support TV/VGA/HDMI video output at the same time. 				
	Video Standard	PAL (50f/s), NTSC (60f/	s)			
	Record Speed	Real-time Mode: PAL 1f/s to 25f/s per channel and NTSC 1f/s to 30f/s per channel				
	Video Partition	1/4/8/9/16/25 windows	1/4/8/9/16/25/36 windows	1/4/8/9/16/25/36/64 windows		
	Monitor Touring	Support monitor tour functions such as alarm, motion detection, and schedule auto control.				
		PAL/NTSC Real-time monitor: D1 704×576/704×480				
	Resolution (PAL/NTSC)	Playback: Each channel supports:: D1 704×576/704×480 , CIF 352×288/ 352×240 , QCIF 176×144/176×120				
		Default resolution is 2CI	· · · /			
		QCIF 176×144/176×120	xtra stream resolution Cl).	F 352×288/ 352×240,		
	Image Quality	6-level image quality (Ad	6-level image quality (Adjustable)			
	Privacy mask	full screen.				
	Image Information	Support max 4 zones. Channel information, time information and privacy mask zone.				
	TV Adjust	Adjust TV output zone suitable to anamorphic video.				
	Channel Lock	normally.	th black screen though s			
	Channel Information	Channel name, recordin	g status, screen lock stat atus are shown on the bo	us, video loss status		

	Color Configuratio n	Hue, brightness, contrast, saturation and gain setup for each channel.
Audio	Audio Input	16-ch 200-2000mv 10KΩ(BNC)
	Audio Output	1-ch audio output 200-3000mv 5KΩ(BNC)
	Bidirectional Audio	1-ch audio talk input 200-3000mv 10K Ω (BNC) 1-ch audio talk output 200-3000mv 5K Ω (BNC)
Hard disk	Hard Disk	8 built-in SATA port. Support 8 HDDs.
	Hard Disk	Audio: G711 27.5MByte/h
	Occupation	Video: 56-3600MByte/h
Record and playback	Recording Mode	Manual recording, motion detection recording, schedule recording and alarm recording Priority: Manual recording> alarm recording>motion detection recording>schedule recording.
	Recording Length	1 to 120 minutes single record duration (Default setup is 60 minutes)
	Playback Repeat Way	When hard disk is full, system can overwrite previous video file.
	Record 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 a file is end system auto plays the next file in the current channel
	Multi- channel Playback	There is 1/4/-channel 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		HDD backup
function	Backup Mode	Support peripheral USB backup device. (Flash disk, portable disk, USB burner and etc.)
		Support peripheral eSATA backup device.
		Support network download and backup View monitor channel remotely.
		DVR configuration through client-end and web browser
		Upgrade via client or browser to realize remote maintenance.
Network Function	Network control	View alarm information such as external alarm, motion detection and 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.

	Mation	Zene esturi surrent 200/220//DAL 22040 NTCC	20w1E)) detection
Motion	Motion Detection	Zone setup: support 396/330((PAL 22×18, NTSC zones.	22×15)) detection
Detection and Alarm	Detection	Various sensitivity levels.	
		Alarm can activate record or external alarm or sci	reen message prompt.
	Video Loss	Alarm can activate external alarm or screen mess	
	External	Support record activation function or activate exte	ernal alarm or screen
	Alarm	message in specified period.	
	Manual	Enable or disable alarm input channel	
	Alarm Control	Support analog alarm signal to specific alarm out	put channel.
	Alarm Input	16-ch alarm input (You can set normal open or n	ormal close type to
	· · ·	select the alarm type.)	
	Alarm Output	6-channel relay output, including one controllable	DC +12V output port.
	Alarm Relay	30V DC 2A, 125V AC 1A (activation alarm))
Interface	USB Interface	3 USB 2.0 ports.	
	Network connection	RJ45 10M/100M/1000M self-adaptable Ethernet	port
	-	PTZ control port	
	RS485	Support various PTZ control protocols.	
	RS232	Ordinary COM (Debug), keyboard connection and	transparent serial
		port(COM input and output via network)	
System Information	Hard Disk Information	Display HDD current status	
	Data	Data stream statistics for each channel (in wave r	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, ala	rm input and output
	On-line user	amount, system version and release date. Display current on-line user	
User		Multi-lever user management; various manageme	ent modes
Management	User	Integrated management for local user, serial port	
June generation	Manageme nt	Configurable user power.	
		Support user /group and its corresponding rights	modification.
		No limit to the user or group amount.	
	Password	Password modification	
	Authenticati	Administrator can modify other user's password.	
	on	Account lock strategy	
Upgrade		Five times login failure in thirty minutes may result in account lock. Web browser, client-end and update tool.	
Opgrade		Password login protection to guarantee safety	
Login, Logout a	and Shutdown	User-friendly interface when login. Provide the following options: Logout	
Login, Logour e		/shutdown/ restart. Right authentication when shut down to make sure only those proper	
		people can turn off DVR	e only mose proper
	Power	AC90~264V 50+2% Hz (Max 220W)	
	Power		
General Parameter	Consumptio	25W (Exclude HDD)	48W (Exclude HDD)
	n		,
	Working	0°C-+55°C	
	Temperatur		
	e		
	Working Humidity	10%-90%	

Air Pressure	86kpa-106kpa	
Dimension	2U standard industrial case. 440(W) x460 (D) x89mm(H)	3U standard industrial case: 440 mm(W)× 460 mm(D)× 133mm(H)
Weight	6.5-7.5KG (Exclude HDD)	8.5KG (Exclude HDD)
Installation Mode	Desktop/rack 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

2.1.1 1.5U series

The front panel is shown as below. See Figure 2-1.

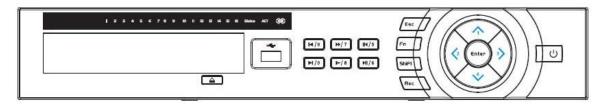


Figure 2-1

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

Name	Icon	Function
Power button	Ċ	Power button, press this button for three seconds to boot up or shut down DVR.
Shift	Shift	In textbox, click this button to switch between numeral, English(Small/Capitalized),donation and etc.
		Activate current control, modify setup, and then move up and down.
Up/1 Down/4	▲、▼	Increase/decrease numeral.
DOWII/4		Assistant function such as PTZ menu.
		In text mode, input number 1/4 (English character G/H/I)
Left/2		Shift current activated control,
Right/3	▲ ►	When playback, click these buttons to control playback bar. In text mode, input number 2(English character A/B/C) /3(English character D/E/F)
ESC	ESC	Go to previous menu, or cancel current operation.
		When playback, click it to restore real-time monitor mode.
		Confirm current operation
Enter	ENTER	Go to default button
		Go to menu
Record	REC	Manually stop/start recording, working with direction keys or numeral keys to select the recording channel. Click this button for at least 1.5 seconds, system can go to
		the Record interface.

Slow play/8	Þ	Multiple slow play speeds or normal playback. In text mode, input number 8 (English character T/U/V).
Assistant	Fn	 One-window monitor mode, click this button to displa assistant function: PTZ control and image color. Backspace function: in numeral control or text control, pres it for 1.5seconds to delete the previous character before the cursor. In motion detection setup, working with Fn and direction keys to realize setup.
		In text mode, click it to switch between numeral, Englis character(small/capitalized) and etc.
		Realize other special functions.
Fast play/7	**	Various fast speeds and normal playback. In text mode, input number 7 (English character P/Q/R/S).
Play previous/0	1 4	In playback mode, playback the previous video In text mode, input number 0.
Reverse/Pau se/6	п ◀	In normal playback or pause mode, click this button t reverse playback In reverse playback, click this button to pause playback. In text mode, input number 6 (English character M/N/O)
Play Next/9		In playback mode, playback the next video In menu setup, go to down ward of the dropdown list. In text mode, input number 9 (English character W/X/Y/Z)
Play/Pause /5	▶ 11	In normal playback click this button to pause playback In pause mode, click this button to resume playback. In text mode, input number 5(English character J/K/L).
USB port	~ ~	To connect USB storage device, USB mouse.
Network abnormal indication light	Net	Network error occurs or there is no network connection, th light becomes red to alert you.
HDD abnormal indication light	HDD	HDD error occurs or HDD capacity is below specifie threshold value, the light becomes red to alert you.
Record light	1-16	It becomes on when system is recording.
IR Receiver	IR	It is to receive the signal from the remote control.

2.1.2 2U series

The front panel of 24/32 series is shown as in Figure 2-2.

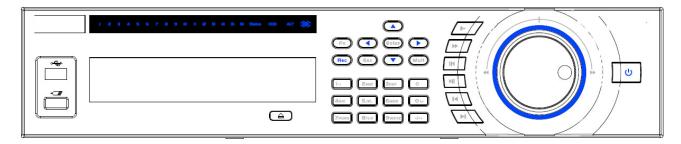


Figure 2-2

2.1.3 3U series

The front panel of the 64-channel is shown as below. See Figure 2-3.



Figure 2-3

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

Name	lcon	Function
Power button	ს ს	Power button, press this button for three seconds to boot up or shut down DVR.
Number button	0-9	Input Arabic number Switch channel
Input number more than 10	-/	If you want to input a number more than 10, please click this button and then input.
Shift	↑	In textbox, click this button to switch between numeral, English(Small/Capitalized),donation and etc. Enable or disable tour.
Up/		Activate current control, modify setup, and then move up and down.
Down		Increase/decrease numeral. Assistant function such as PTZ menu.
Left/		Shift current activated control, and then move left and right.
Right		When playback, click these buttons to control playback bar.
ESC	ESC	Go to previous menu, or cancel current operation.

		When playback, click it to restore real-time monitor mode.
		Confirm current operation
Enter	ENTER	Go to default button
		Go to menu
Record	REC	Manually stop/start recording, working with direction keys or numeral keys to select the recording channel.
Slow play	Þ	Multiple slow play speeds or normal playback.
		One-window monitor mode, click this button to display assistant function: PTZ control and image color.
		Backspace function: in numeral control or text control, press it for 1.5seconds to delete the previous character before the cursor.
		In motion detection setup, working with Fn and direction keys to realize setup.
Assistant	Fn	In text mode, click it to switch between numeral, English character(small/capitalized) and etc.
		In HDD management interface, you can click it to switch HDD record information and other information (Menu prompt)
		Realize other special functions.
Fast play	**	Various fast speeds and normal playback.
Play previous	•	In playback mode, playback the previous video
Reverse/Pause	◄	In normal playback or pause mode, click this button to reverse playback In reverse playback, click this button to pause playback.
Play Next	►I	In playback mode, playback the next video In menu setup, go to down ward of the dropdown list.
Play/Pause	►II	In normal playback click this button to pause playback In pause mode, click this button to resume playback.
Window switch	Mult	Click it to switch one-window/multiple-window.
Shuttle(outer ring)		In real-time monitor mode it works as left/right direction key. Playback mode, counter clockwise to forward and clock wise to backward.
Jog(inner dial)		Up/down direction key. Playback mode, turn the inner dial to realized frame by frame playback. (Only applies to some special versions.)

USB port	م ۍ	To connect USB storage device, USB mouse.
Remote control indication light	ACT	Remote control indication light
Status indication light	Status	If there is Fn indication light, current status indication light is null.
Power indication light	PWR	Power indication light.
Record light	1-32	It becomes on when system is recording. For 32-channel series When the light flashes slowly, it means the corresponding channel of 1-16 channel is recording now. When the light flashes fast, it means the corresponding channel of 17-32 channel is recording now. When the light becomes on, It means the corresponding 2-channel is recoding now.
IR Receiver	IR	It is to receive the signal from the remote control.

2.2 Rear Panel

2.2.1 1.5U series

The rear panel of 24/32-ch series product is shown as in Figure 2-4.

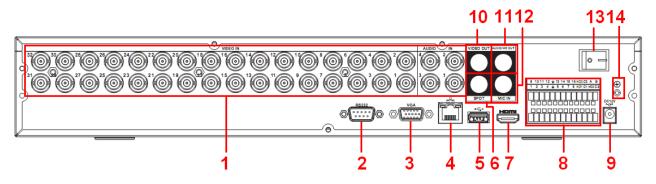


Figure 2-4

Please refer to the following sheet for detailed information.

	1	Video input			
	2	RS232 port			
	3	Video VGA output			
Γ	4	Network port			
	5	USB port			
	6	SPOT output			
	7	HDMI output			
	8	Alarm input/Alarm output/RS485 port			
	9	Power socket			
	10	Video output			
	11	Audio/Bidirectional talk output port			

12	Bidirectional talk input port
13	Power on/off button
14	GND port

2.2.2 2U series

This series DVR rear panel is shown as below. See Figure 2-5.

Please note the following figure is based on the 24/32-channel series product.

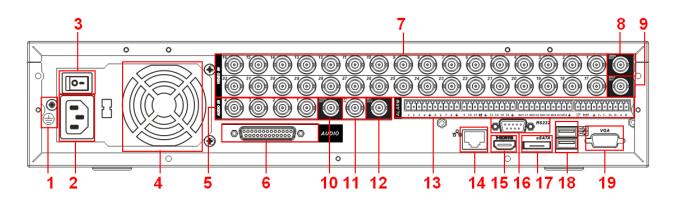


Figure	2-5
Iguie	2-0

Please refer to the following sheet for detailed information.

	-
1	GND port
2	Power input port
3	Power button
4	Fan
5	1 st to 4 th -channel audio input
6	DB25 port (5 th to 16 th -channel audio input port)
7	Video input
8	Video CVBS output
9	Matrix video output
10	Audio output
11	Bidirectional talk input port
12	Bidirectional talk output port
13	Alarm input/Alarm output/RS485 port
14	Network port
15	HDMI port
16	RS232 port
17	eSATA port
18	USB port
19	Video VGA output

2.2.3 3U series

The 64-channel series DVR rear panel is shown as below. See Figure 2-6.

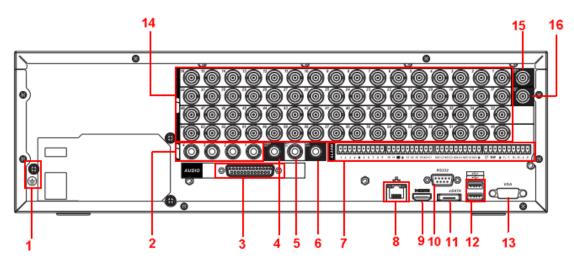


Figure 2-6

Please refer to the following sheet for detailed information.

· ·	
1	GND port
2	1 st to 4 th -channel audio input
3	DB25 port (5 th to 16 th -channel audio input
	port)
4	Audio output
5	Bidirectional talk input port
6	Bidirectional talk output port
7	Alarm input/Alarm output/RS485 port
8	Network port
9	HDMI port
10	RS232 port
11	eSATA port
12	USB port
13	Video VGA output
14	Video input
15	Video output
16	Matrix video output

When connect the Ethernet port, please use crossover cable to connect the PC and use the straight cable to connect to the switcher or router.

2.3 Connection Sample

Please refer to Figure 2-7 for connection sample. Please note the following figure is based on the 32-channel 2U series product.

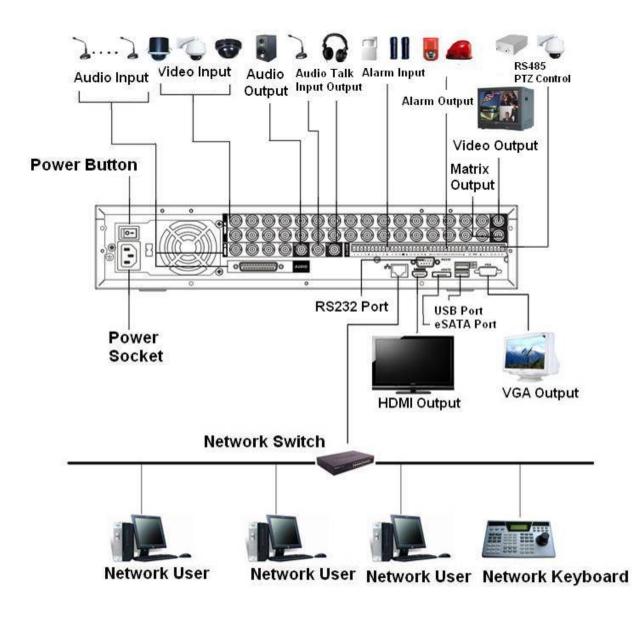


Figure 2-7

2.4 Remote Control

The remote control interface is shown as in Figure 2-8.

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

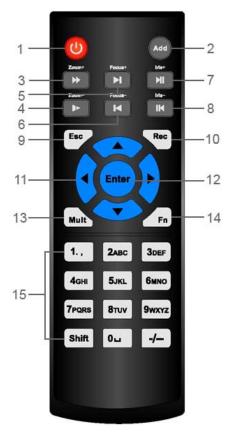


Figure 2-8

Please refer to the following sheet for detailed information.

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

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

2.5 Mouse Control

Left click mouse	System pops up password input dialogue box if you have not logged in. 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 ← 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 click mouse	Implement special control operation such as double click one item in the file 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 4 View 8 View 9 View 16 View 25 Pan/Til/Zoom
	Color Setting Search Record Alarm Output Video Matrix Main Menu
	Exit current menu without saving the modification.
Press	In numeral input box: Increase or decrease numeral value.
middle	Switch the items in the check box.
button	Page up or page down
Move mouse	Select current control or move control
Drag mouse	Select motion detection zone
	Select privacy mask zone.
L	

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. (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.

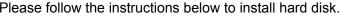
3.2 About Front Panel and Real Panel

The model label in the front panel is very important; please check according to your purchase order.

The label in the rear panel is very important too. Usually we need you to represent the serial number when we provide the service after sales.

3.3 HDD Installation

You can refer to the Appendix for recommended HDD brand. The 1.5U series product supports 2 HDDs and the 2U series product supports 8 HDDs. It has no requirement for HDD capacity. Please use HDD of 7200rpm or higher. Usually we do not recommend the PC HDD. Please follow the instructions below to install hard disk.





1. Loosen the screws of the upper cover.





2. Remove the HDD upper	3. Now you can see the bottom
bracket	bracket



4. Line up the HDD to the four holes of the HDD bracket.



7. Unfasten the HDD power cable.



5. Use screws to fix HDD.



8. Insert the HDD power cable.



Install the upper bracket and then
 Use screws to fix HDD in the
 bracket.



9. Use the special data cable to connect the HDD and the SATA port. Close the chassis and fix the screws to secure firmly.

Note:

- You can connect the HDD data cable and the power cable first and then fix the HDD in the device.
- Please pay attention to the front cover. It adopts the vertical sliding design. You need to push the clip first and then put down.

3.4 Rack Installation

Please follow the steps listed below.

- Use twelve screws to fix the unit
- Please make sure the indoor temperature is below 35°C (95°f).
- Please make sure there is 15cm (6 inches) space around the device to guarantee sound ventilation.
- Please install from the bottom to the top.
- If there are more accessories connected in the rack, please take precaution measures in case the rack power is overload.

3.5 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.

3.6 Connecting Video Input and Output Devices

3.6.1 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.

3.6.2 Connecting Video Output

Video output includes a BNC(PAL/NTSC1.0V_{P-P}, 75 Ω) output ,a VGA output and HDMI output. System supports BNC, VGA and HDMI output at the same time.

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.

3.7 Connecting Audio Input & Output, Bidirectional Audio

3.7.1 Audio Input

These series products audio input port adopt BNC port.

Due to high impedance of audio input, please use active sound pick-up.

Audio transmission is similar to video transmission. Try to avoid interference, dry joint, loose contact and it shall be away from high tension current.

3.7.2 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.

3.8 Alarm Input and Output Connection

Please refer to the following sheet for 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. Please make sure alarm input mode is grounding alarm input.

b. Grounding signal is needed for alarm input.

c. Alarm input needs the low level voltage signal.

d. Alarm input mode can be either NC (normal Open) or NO (Normal Close)

e. When you are connecting two DVRs or you are 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.

3.8.1 Alarm Input and Output Details

You can refer to the following sheet for alarm input and output information.

Important

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

3.8.1.1 1.5U Series The interface is shown as in Figure 3-1.

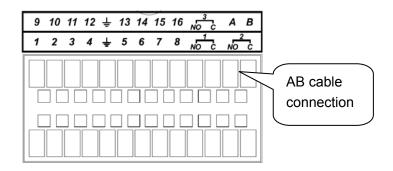


Figure 3-1

Please refer to the following sheet and Figure 3-1 for detailed information.

1, 2, 3, 4, 5, 6, 7, 8.and the first line from the left to the right : 9, 10, 11, 12, 13, 14, 15, 16	ALARM 1 to ALARM 16. The alarm becomes active in low voltage.
NO1 C1, NO2 C2, NO3 C3,	There are three groups of normal open activation output (on/off button)
÷	Earth cable.
485 A/B	485 communication port. They are used to control devices such as PTZ. Please parallel connect $120T\Omega$ between A/B cables if there are too many PTZ decoders.

3.8.1.2 2U Series

The 2U series product interface is shown as in Figure 3-2.

ARM	•	[<u>ן</u>	•	، د ۵	ĺ	<u> </u>	•	57			ĺ	Z]		ĺ	j	•	5 Z 0 ~		Ŀ	ĺ]	•					ĺ	ן ק	•	5 C	[j		•	5	ĺ		•	[•			j	•	5 Z 0		ľ	j	•	5 2]	ł
AL	1	2		3	4	f		5	6	7	8	9	,	10	1	1 1	12	÷	13	14	1	5	16	NO	1 C	1	NO	2 C	2 1	103	СЗ	NO	4 C	4 1	105	C	NC	;5	÷	C 1	TRL 2V	+1	2V	Ť	, ;	T+	т-	R	+ F	₹_	A	в		

Figure 3-2

You can refer to the following sheet and Figure 3-2 for alarm input and output information.

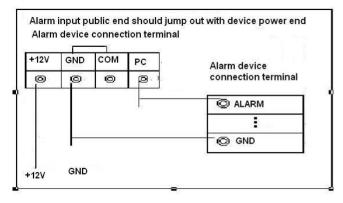
1, 2, 3, 4,, 5, 6, 7,	ALARM 1 to ALARM 16. The alarm becomes active in low voltage.
8, 9, 10, 11, 12, 13,	
14, 15, 16	
NO1 C1,	The first four are four groups of normal open activation output
NO2 C2,	(on/off button)
NO3 C3,	NO5 C5 NC5 is a group of NO/NC activation output (on/off button)
NO4 C4,	
NO5 C5 NC5	
CTRL 12V	Control power output. You need to close the device power to cancel
	the alarm.
+12V	It is external power input. Need the peripheral equipment to provide
	+12V power (below 1A).
<u> </u>	Earth cable.
	Four using full durates: DO405 a get
T+, T-, R+, R-	Four-wire full-duplex RS485 port.
	T+, T- is the output cable and R+, R- is the input cable.

485 A/B	485 communication port. They are used to control devices such as PTZ. Please parallel connect $120T\Omega$ between A/B cables if there are
	too many PTZ decoders.

3.8.2 Alarm Input Port

Please refer to the following sheet for more information.

- 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.





3.8.3 Alarm Output Port

- Provide power to peripheral alarm device.
- To avoid overloading, please read the following relay parameters sheet carefully.
- RS485 A/B cable is for the A/B cable of the PTZ decoder.

Model:	JRC-27F	
Material of the touch	Silver	
Rating	Rated switch capacity	30VDC 2A, 125VAC 1A
(Resistance Load)	Maximum switch power	125VA 160W
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	1500V (10×160us)
Length of open time	3ms max	
Length of close time	3ms max	

Relay Specification

Longevity	Mechanical	50×106 times (3Hz)
	Electrical	200×103 times (0.5Hz)
Temperature	-40°C ~+70°C	

3.9 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.

3.10 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 3-8.

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.

3.11 Other Interfaces

There are still other interfaces on the DVR, such as USB ports.

4 Overview of Navigation and Controls

Note:

All the operations listed below are based on the 24-channel 2U series product.

Before operation, please make sure:

- You have properly installed HDD and all the cable connections.
- The provided input power and the device power are matched.
- The external power shall be AC90~264V 50+2% Hz.
- Always use the stable current, if necessary UPS is a best alternative measure.

4.1 Login, Logout & Main Menu

4.1.1 Login

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

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

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

B	Startup Wizard
	Vizard:General, TV Adjust, Encode, e, Record Control, NetWork. R
	Next Step Cancel

Figure 4-1

The system login interface is shown as in Figure 4-2.

System consists of four accounts:

- Username: admin. Password: admin. (administrator, local and network)
- Username: 888888. Password: 888888. (administrator, local only)
- **Username:** 6666666. **Passwords:** 666666(Lower authority user who can only monitor, playback, backup and etc.)
- Username: default. Password: default(hidden user)

You can use USB mouse, front panel, remote control or keyboard to input. About input method:

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 six times login failure will result in account lock!



Figure 4-2

4.1.2 Main Menu

After you logged in, the system main menu is shown as below. See Figure 4-3. 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.

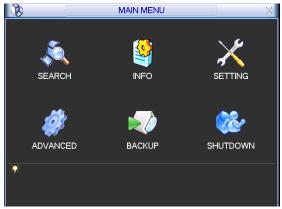


Figure 4-3

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 4-4.



Figure 4-4

There are several options for you. See Figure 4-5.

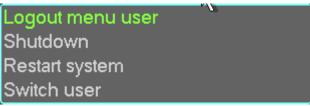


Figure 4-5

The other ways is to press power button on the front panel for at least 3 seconds, system will stop all operations. Then you can click the power button in the rear panel to turn off the DVR.

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.

Note:

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

4.2 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).

1	0	Recording status	3	?	Video loss
2		Motion detection	4		Camera lock

Preview Control

The preview control function has the following features.

- Support preview playback.
 - In the preview desktop, system can playback previous 5-60 minutes record of current channel. Please go to the Main Menu->General to set real-time playback time.
 - Support drag and play function. You can use your mouse to select any playback start time.
 - ♦ Support playback, pause and exit function.
 - ♦ Right now, system does not support slow playback and backward playback function.
- Support digital zoom function.
- Support real-time backup function.

You can follow the contents listed below for the operation instruction.

Preview control interface

Move you mouse to the top centre of the video of current channel, you can see system pops up the preview control interface. See Figure 4-6. If your mouse stays in this area for more than 6 seconds and has no operation, the control bar automatically hides.

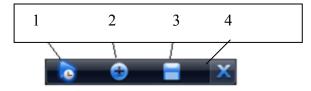


Figure 4-6

You can refer to the following sheet for detailed information.

SN	Name	Function
1	Realtime playback	It is to playback the previous 5-60 minutes record of current channel. Please go to the Main Menu->General to set real-time playback time. System may pop up a dialogue box if there is no such record in current channel.
2	Digital zoom	It is to zoom in specified zone of current channel. It supports zoom in function of multiple- channel. The selected area has an icon as and the free area is shown as an icon as
3	Real-time backup function	It is to backup the video of current channel to the USB device. System can not backup the video of multiple-channel at the same time. Current selected backup channel has an icon as and the free channel is shown as an icon as Once the backup started, you can see the free channel is shown as an icon as
4	Exit	

Playback control

The playback control has the following features.

- Support play, pause, and exit and drag function.
- During the preview playback process, you can not see the channel title and record status of current channel. It will display the channel title and the record status once you exit the preview playback.
- During the preview playback, you can not switch the displayed channel or change current window-display mode.
- Please note, the tour function has the higher priority than the preview playback. System automatically exits the preview playback function and its corresponding interface when the tour function started. You can not control the preview playback until the tour function ended.

4.3 Manual Record

Note:

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

4.3.1.1 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 in Figure 4-7.

4.3.1.2 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.

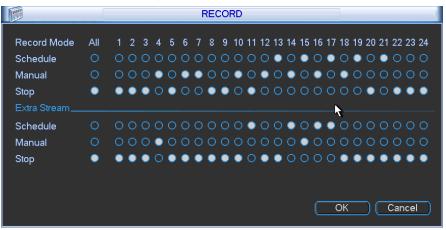


Figure 4-7

4.3.1.3 Enable/disable record

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

You can use mouse or direction key to highlight channel number. See Figure 4-8.

The second secon						F	REC	COF	RD														_
Record Mode	All		23	4	56	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Schedule			0 0		0 0	0	0		0		0	٠	0	٠		٠	0	٠		٠	0		0
Manual	0	0	0 0	•	0 🔹	٠	0	0	۲	0	۲	0	۲	0	٠	0	۲		0	0	0	0	0
Stop	•	•	• •		• 0	0	٠	٠	0	٠	0	0	0		0	0	0		٠	0	٠	٠	•
Extra Stream																_	+						
Schedule	0	0	0 0	0	0 0	0	0	0	0	•	0	0	٠	0	٠	٠	0		0	0	0	0	0
Manual			0 0	•	0 0	0			0				0	٠	0	0	0			0			
Stop	•	•	• •	0	• •	٠	۲	۲	۲	0	۲	۲	0	0	0	0	۲	۲	۲	۲	۲	۲	•
															C	(DК) (Can	cel	

Figure 4-8

4.3.1.4 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 4-9.

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

The corresponding indication light in front panel will turn on.

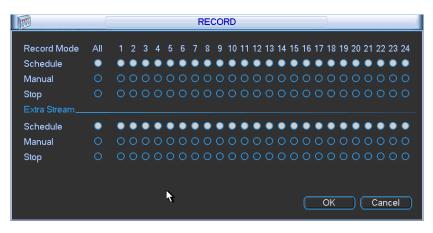


Figure 4-9

• All channel manual record

Please highlight "ALL" after "Manual." See Figure 4-10.

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.

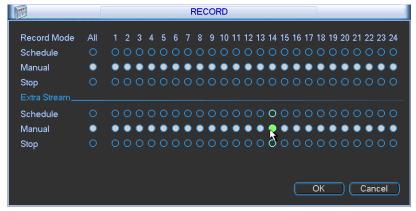


Figure 4-10

4.3.1.5 Stop all channel recording

Please highlight "ALL" after "Stop". See Figure 4-11.

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

								F	REC	COR	RD]						
Record Mode	All		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Schedule																									
Manual																									
Stop	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	•
Extra Stream																									
Schedule																									
Manual																									
Stop	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	۰	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	•
									k																
																		(ЭK) ((Car	cel	

Figure 4-11

The interface of 64-channel series product is shown as below. See Figure 4-12 and Figure 4-13.

m											F	REC	OF	RD																	
Record Mode	All	33	34 :	35 :	36 3	73	8 3!	9 40	41	42	43	44	45 ·	46 4	47 4	48 4	49 !	50	51 :	52 !	53 !	54 5	55	6 51	7 58	3 5!	9 60	61	62	636	4
Schedule		٠	•	•	• •			•	٠	۲	۲	۲	۲	•	•	•	•	•	•	•	•				•		•	•	٠	• •	
Manual			0	0	0 (0	0		0			0		0	0	0	0	0					o c		> c	0		0 0	
Stop			0	0	0 (0	0		0			0		0	0	0	0	0					o c		> c	0		0 0	
Extra Stream																															
Schedule			0	0	0 (0	0		0			0		0	0	0	0	0								0		0 0	
Manual			0	0	0 (0	0		0			0		0	0	0	0	0) C) c	0		0 0	
Stop		٠	•	•	• •			•	٠	٠	٠	٠	٠	•	•	•	•	•	•	•	•	• (•		•	•	٠	• •	
Channel 1-32)																								OK	(Can	cel)
X																															



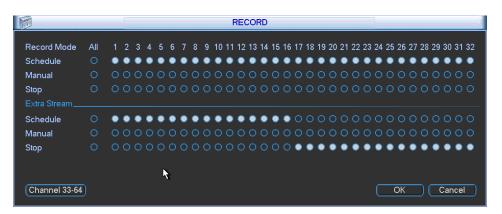


Figure 4-13

4.4 Search & Playback

Click search button in the main menu, search interface is shown as below. See Figure 4-14. Usually there are three file types:

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

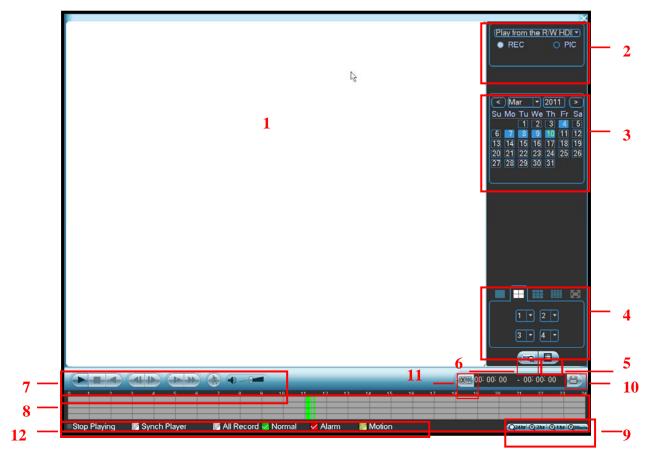


Figure 4-14

Please refer to the following sheet for more information.

SN	Name	Function
1	Display window	 Here is to display the searched picture or file. Support 1/4/9/16-window playback.
2	Search type	 Here you can select to search the picture or the recorded file. You can select to play from the read-write HDD or the connected external device.
3	Calendar	 The blue highlighted date means there is picture or file. Otherwise, there is no picture or file. In any play mode, click the date you want to see, you can see the corresponding record file trace in the time bar.
4	Playback mode and channel selection pane.	 Playback mode: 1/4/9/16. (It may vary due to different series.) In 1-window playback mode: you can select any channel. In 4-window playback mode: you can select 4 channels according to your requirement such as 1-4 channel and 5-8 channel. In 9-window playback mode, you can switch between such as 1-8 and 9-16 channels. In 16-window playback mode, you can switch between such as 1-16 and 17-32 channels. The time bar will change once you modify the playback mode or the channel option.

5	File list switch button	 The The The View ti button You File record 00 : 0 Lock you loc Seat Retuinterfa Please Systithe Hili Systi 	0 : 00 (file. Click the file you want to lock and click the button (to lock. The file bocked will not be overwritten. (file: Click the button (to view the locked file. (file: Click the button (system goes back to the calendar and channel setup)
			ard number search interface is shown as below. Here you can view card
6	Card number search		er/field setup bar. You cam implement advanced search.
7	Playback control pane.	►/ II	 Play/Pause There are three ways for you to begin playback. The play button Double click the valid period of the time bar. Double click the item in the file list. In slow play mode, click it to switch between play/pause.
			Stop
		•	Backward play In normal play mode, left click the button, the file begins backward play. Click it again to pause current play. In backward play mode, click ►/ II to restore normal play.
		◄ / ▶	In playback mode, click $ \blacktriangleleft / \triangleright $ on the front panel or the remote control, you can play the previous section or the next section. You can click continuously when you are watching the files from the same channel.
		▲ / ►	In normal play mode, when you pause current play, you can click ◀ and ► to begin frame by frame playback. In frame by frame playback mode, click ►/II to restore normal playback. For multiple-channel frame by frame playback mode, system only supports I frame playback.
		•	Slow play In playback mode, click it to realize various slow play modes such as slow play 1, slow play 2, and etc.
		**	Fast forward In playback mode, click to realize various fast play modes such as fast play 1,fast play 2 and etc.
		Note:	The actual play speed has relationship with the software version.
		*	Smart search

		The volume of the playback
		Click the snapshot button in the full-screen mode, the system can snapshot 1 picture per second.
8	Time bar	 It is to display the record type and its period in current search criteria. In 4-window playback mode, there are corresponding four time bars. In other playback mode, there is only one time bar. Use the mouse to click one point of the color zone in the time bar, system begins playback. The time bar is beginning with 0 o'clock when you are setting the configuration. The time bar zooms in the period of the current playback time when you are playing the file. The green color stands for the regular record file. The red color stands for the external alarm record file. The yellow stands for the motion detect record file.
9	Time bar unit	 The option includes: 24H, 12H, 1H and 30M. The smaller the unit, the larger the zoom rate. You can accurately set the time in the time bar to playback the record. The time bar is beginning with 0 o'clock when you are setting the configuration. The time bar zooms in the period of the current playback time when you are playing the file.
10	Backup	Select the file(s) you want to backup from the file list. System max supports files from four channels. Then click the backup button, now you can see the backup menu. Click the start button to begin the backup operation. Check the file again you can cancel current selection. System max supports to display 32 files from one channel.
11	Clip	 It is to edit the file. Please play the file you want to edit and then click this button when you want to edit. You can see the corresponding slide bar in the time bar of the corresponding channel. You can adjust the slide bar or input the accurate time to set the file end time. Click this button again and then save current contents in a new file.
12	Record type	In any play mode, the time bar will change once you modify the search type.
13	Smart search	Click the button, system begins smart search. System supports 396(22*18 PAL) and 330(22*15 NTSC) zones. See Figure 4-15.

	 Once the mocurrent motion The system with default. If you select play pf other During the micas change time 	the motion detect button to begin play. tion detect play has begun, click button again will terminate on detect file play. will take the whole play zone as the motion detect region by to play other file in the file list, system switches to motion detect file. otion detect play process, you can not implement operations such me bar, begin backward playback or frame by frame playback t support motion detect zone setup during the full-screen
		Other Functions
14	Other channel synchronization switch to play when playback	When playing the file, click the number button, system can switch to the same period of the corresponding channel to play.
15	Digital zoom	When the system is in full-screen playback mode, left click the mouse in the screen. 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.

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.

4.5 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 Schedule Menu

In the main menu, from setting to schedule, you can go to schedule menu. See Figure 4-16.

- Channel: Please select the channel number first. You can select "all" if you want to set for the whole channels.
- Week day: There are eight options: ranges from Saturday to Sunday and all.
- Pre-record: System can pre-record the video before the event occurs into the file. The value ranges from 1 to 30 seconds depending on the bit stream.
- Redundancy: System supports redundancy backup function. It allows you backup recorded file in two disks. You can highlight Redundancy button to activate this function. Please note, before enable this function, please set at least one HDD as redundant. (Main menu->Advanced->HDD Management) Please refer to chapter 4.4.1.2 for detailed information.
 Please note this function is null if there is only one HDD and the 64-channel series product max supports redundancy records from 4 channels.
- 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.
- Holiday setting: Click it you can see an interface shown as in Figure 4-17. Here you can set holiday date. Check the box, it means current channel shall record as your holiday setup.
 Please go to the Period interface to set the holiday date record setup.

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

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

6			SCHEDUL	E				
Channel	1 ▼ Pr (Holidays So	eRecord [4)sec. F	Redundand	су 🔲	Snapshot 📘	
Period	Tue 🔻	Record Type	Regular	MD	Alarm	MD&	Alarm	
Period 1	00:00	-24 :00						
Period 2	00 :00	-24 :00						
Period 3	00:00	-24 :00					N	
Period 4	00 :00	-24 :00						
Period 5	00:00	-24 :00						
Period 6	00 :00	-24 :00						
	Regular	MD	📕 Alarr	n	MD&	Alarm		
0 3	3 6	9	12	15	i 1	8	21	-24
Сору	Pas	te Defa	ult			Ж	Cancel	

Figure 4-16

Ø.		20	12-07-0)3		
ارک			•	2012	!	
Su	Мо	Tu	We	Th	Fr	Sa
	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	31				
	C	OK	DC	Cance	el)	

Figure 4-17

4.5.1.1 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.

4.5.1.2 Redundancy

Redundancy function allows you to memorize record file in several disks. When there is file damage occurred in one disk, there is a spare one in the other disk. 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. See Figure 4-16.

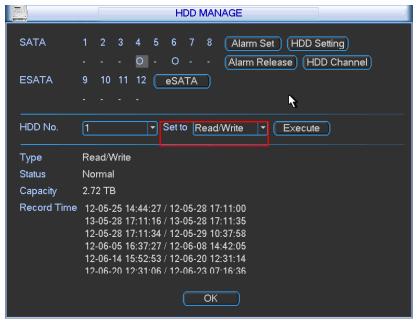
In the main menu, from Advanced to HDD management, you can set one or more disk(s) as redundant. You can select from the dropdown list. See Figure 4-18. System auto overwrites old files once hard disk is full.

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.





Playback or search in the redundant disk.

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 4-18.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.

4.5.2 Snapshot

Please note the 24/32-channel series product supports 24/32-channel snapshot function. The 64-channel series product supports 1-16-channel snapshot function only. 4.5.2.1 Schedule Snapshot

In Encode interface, click snapshot button to input snapshot mode, size, quality and frequency. See the interface on the left of Figure 4-19.

In FTP (Main Menu->Network->Network Setting) interface, please input upload interval. See the interface in the middle of Figure 4-19.

In Schedule interface, please enable snapshot function. See interface on the right of Figure 4-19.

Please refer to the following figure for detailed information. See Figure 4-19.

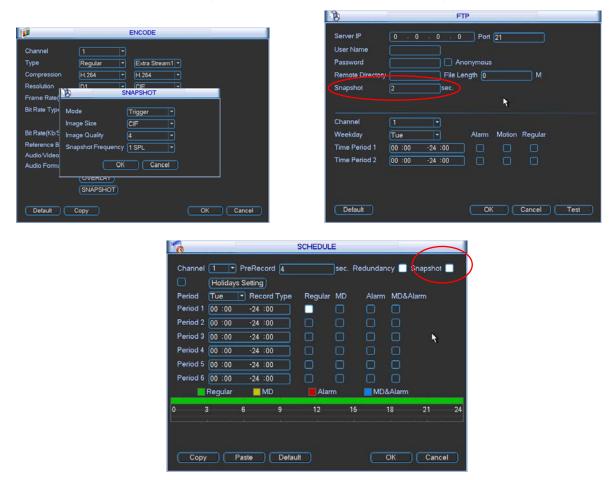


Figure 4-19

4.5.2.2 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. See the interface on the left of Figure 4-20.
- In FTP interface please input upload interval. See the interface in the middle of Figure 4-19.
- In Detect interface please enable snapshot function for specified channels (interface in the middle of Figure 4-20). Or in alarm interface (interface on the right of Figure 4-20) please enable snapshot function for specified channels.

Please refer to the following figure for detailed information. See Figure 4-20.

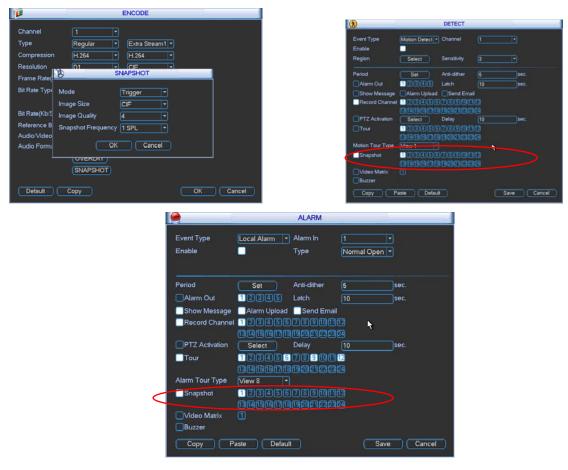


Figure 4-20

4.5.2.3 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.

4.5.3 Image FTP

In Network interface, you can set FTP server information. Please enable FTP function and then click save button. See Figure 4-21.

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.

B		FTP	
Server IP	0.0.0.	0 Port 21	
User Name			
Password		Anonymous	
Remote Directory	/ File	Length 0 M	
Snapshot	2 sec.		
		•	
Channel	1		Please input the
Weekday	Tue 🔹	Alarm Motion Regular	operconcerding information
Time Period 1	00 :00 -24 :00		corresponding information
Time Period 2	00 :00 -24 :00		here, if you just upload the
			(image FTP.
Default		OK Cancel Test	

Figure 4-21

4.6 Detect

4.5.1 Go to Detect Menu

In the main menu, from Setting to Detect, you can see motion detect interface. See Figure 4-22.There is three detection types: motion detection, video loss, camera masking.

4.5.2 Motion Detect

Detection menu is shown as below. See Figure 4-22

- 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 10-300(Unit: second)
- Region: Click select button, the interface is shown as in Figure 4-23. Here 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.
- PTZ activation: Here you can set PTZ movement when alarm occurs. Such as go to preset, tour &pattern when there is an alarm. Click "select" button, you can see an interface is shown as in Figure 4-24.

- Period: Click set button, you can see an interface is shown as in Figure 4-25. Here you can set for business day and non-business day. In Figure 4-25 click set button, you can see an interface is shown as in Figure 4-26. Here you can set your own setup for business day and non-business day.
- Anti-dither: Here you can set anti-dither time.
- Alarm output: when alarm occurred, system enables peripheral alarm devices.
- Tour: Here you can enable tour function when alarm occurs. System one-window tour. Please go to chapter 5.3.9 Display for tour interval setup.
- Snapshot: You can enable this function to snapshoot image when 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 4-23, 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.

8		DETECT		
Event Type	Motion Detect	Channel	[1	
Enable				
Region	Select	Sensitivity	3	
Period	Set	Anti-dither	5	sec.
Alarm Out	12345	Latch	10	sec.
Show Message	Alarm Upload	Send Email		
Record Channel	123456	0789011	12	
	131415161718	1920212223	24	
PTZ Activation	Select	Delay	10	sec.
□Tour	123456)789011(12	
	131415161718	1920212223	24	
Motion Tour Type	View 1 🔻		R.	
Snapshot	123456	07891011	12	
	131415161718	1920212223	24	
Video Matrix	1			
Buzzer				
Copy Pa	aste Defaul	t	Sav	ve Cancel



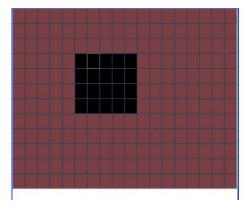


Figure 4-23

	PT2		
1 None 🔻 0	2 None 🔻 0	3 None 🔻 0	4 None 🔻 0
5 None 🕶 0	6 None 🕶 0	7 None 🕶 0	8 None 🔻 0
9 None 🔽 0	10 None 🔻 0	11 None 🔻 0	12 None 🔻 0
13 None 🔻 0	14 None 👻 0	15 None 🔻 0	16 None 🔻 0
17 None 🕶 0	18 None 🔻 0	19 None 🕶 0	20 None 🔻 0
21 None 🕶 0	22 None 🔻 0	23 None 🔻 0	24 None 🔻 0
25 None 🕶 0	26 None 🔻 0	27 None 🔻 0	28 None 🔻 0
29 None 🔻 0	30 None 🔻 0	31 None 🔻 0	32 None 🔻 0
	OK	Cancel	

Figure 4-24

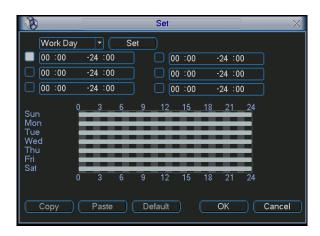


Figure 4-25





For the 64-channel series product, the interface is shown as in Figure 4-27 and Figure 4-28.

(DETECT		
Event Type Enable	Motion Detect	Channel	1	
Region	Select	Sensitivity	3 -	
Period	Set	Anti-dither	5	sec.
Alarm Out	123456	Latch	10]sec.
Show Message	Alarm Upload	Send Email		
Record Channel	Select			
PTZ Activation	Select	Delay	10	sec.
Tour	Select	Motion Tour Type	View 1	
Snapshot	Select			
Video Matrix	1		×	1
Buzzer				
Сору Ра	aste Default	\supset	Save (Cancel

Figure 4-27



Figure 4-28

4.5.3 Video Loss

In Figure 4-22, select video loss from the type list. You can see the interface is shown as in Figure 4-29. This function allows you to be informed when video loss phenomenon occurred. You can enable alarm output channel and then enable show message function.

Tips:

You can enable preset activation operation when video loss occurs.

Please refer to chapter 4.5.2 motion detection for detailed information.

8		DETECT		
Event Type Enable	Video Loss _▼	Channel	[1	•
Period	Set			
Alarm Out	12345	Latch	10	sec.
Show Message	Alarm Upload	Send Email		
Record Channel	123456	789111(12	
	131415161718	19202122238	24	
PTZ Activation	Select	Delay	10	sec.
□Tour	123456	789111(12	
	وستستعت فستعط	19202122238	24	
Motion Tour Type	View 1		k	
Snapshot		789111	12	
	131415161713	19202122238	24	
<u> </u>				
Buzzer				
Copy Pa	aste Default		Sav	e Cancel

Figure 4-29

4.5.4 Camera Masking

When someone viciously masks the lens, or the output video is in one-color due to the environments light change, the system can alert you to guarantee video continuity. Camera masking interface is shown as in Figure 4-30.

Tips:

You can enable preset/tour/pattern activation operation when video loss occurs. 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		DETECT		
Event Type Enable	Camera Maski ▼	Channel	[
Period	(Set			
Alarm Out	12345	Latch	10	sec.
Show Message	Alarm Upload	Send Email		
Record Channel	123456	789001	12	
	131415161718	19202122231	24	
PTZ Activation	Select	Delay	10	sec.
□Tour	123456)7891111	12	
	131415161718	19202122231	24	
Motion Tour Type	View 8 🔻			
Snapshot	123456	0789001	12	
	131415161718	19202122231	24	
Buzzer				
Copy P:	aste Defaul	t	S	ave Cancel

Figure 4-30

4.7 Alarm Setup and Alarm Activation

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

4.7.1 Go to alarm setup interface

In the main menu, from Setting to Alarm, you can see alarm setup interface. See Figure 4-31.

4.7.2 Alarm setup

Alarm interface is shown as below. See Figure 4-31.

- 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: normal open or normal close.
- PTZ activation: When an alarm occurred, system can activate the PTZ operation. The PTZ activation lasts an anti-dither period.
 - ♦ In the Pan/Tilt/Zoom interface (Main menu->Setting-> Pan/Tilt/Zoom), please set video channel, speed dome protocol and etc.
 - Select the channel of current speed dome as current monitor video and the right click mouse to select Pan/Tilt/Zoom item. Now you can set preset, tour pattern.
 - In Figure 4-31, click "select" button, you can see an interface is shown as in Figure 4-32.
 Here you can set the activation operation such as preset tour, pattern and enable.
- Period: Click set button, you can see an interface is shown as in Figure 4-33. Here you can set for business day and non-business day. In Figure 4-33, click set button, you can see an interface is shown as in Figure 4-34. Here you can set your own setup for business day and non-business day.
- Anti-dither: Here you can set anti-dither time. The value ranges from 5 to 600s. The antidither time refers to the alarm signal lasts time. It can be seem as the alarm signal activation stays such as the buzzer, tour, PTZ activation, snapshot, channel record. The stay time

here does not include the latch time. During the alarm process, the alarm signal can begin an anti-dither time if system detects the local alarm again. The screen prompt, alarm upload, email and etc will not be activated. For example, if you set the anti-dither time as 10 second, you can see the each activation may last 10s if the local alarm is activated. During the process, if system detects another local alarm signal at the fifth second, the buzzer, tour, PTZ activation, snapshot, record channel will begin another 10s while the screen prompt, alarm upload, email will not be activated again. After 10s, if system detects another alarm signal, it can generate an alarm since the anti-dither time is out.

- 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.
- Record channel: you can select proper channel to record alarm video (Multiple choices).
 - You need to set alarm record mode as Schedule in Record interface (Main Menu->Advanced->Record). Please note the manual record has the highest priority. System record all the time no matter there is an alarm or not if you select Manual mode.
 - Now you can go to the Schedule interface (Main Menu->Setting->Schedule) to set the record type, corresponding channel number, week and date. You can select the record type:Regular/MD/Alarm/MD&Alarm. Please note, you can not select the MD&Alarm and MD(or Alarm) at the same time.
 - Now you can go to the Encode interface to select the alarm record and set the encode parameter (Main Menu->Setting->Encode).
 - Finally, you can set the alarm input as the local alarm and then select the record channel. The select channel begins alarm record when an alarm occurred. Please note system begins the alarm record instead of the MD record if the local alarm and MD event occurred at the same time.
- Latch: When the anti-dither time ended, the channel alarm you select in the alarm output may last the specified period. The value ranges from 1 to 300 seconds. This function is not for other alarm activation operations. The latch is still valid even you disable the alarm event function directly.
- Tour: Here you can enable tour function when alarm occurs. System supports one-window tour. Please go to chapter 5.3.9 Display for tour interval setup.
- Snapshot: You can enable this function to snapshoot image when alarm occurs.
- Video matrix: Check the box to enable this function. The video matrix output can display the alarm video of current channel when there is an alarm signal.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when alarm occurs.
- Snapshot: For snapshot operation, please refer to chapter 4.4.2.

Note: The network alarm means the alarm signal from the TCP/IP. You can enable the network alarm function via the net SDK. The network alarm does not have the device type; anti-dither and alarm upload function. The rest items are the same.

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

		ALARM		
Event Type Enable	Local Alarm ▼	Alarm In Type	1 Normal Open	•
Period	Set	Anti-dither	5	sec.
Alarm Out	12345	Latch	10	sec.
Show Message	Alarm Upload	Send Email		
Record Channel	123456)78910111	12	
	131415161718	19202122231	24	
PTZ Activation	Select	Delay	10]sec.
□Tour	123456	1789111	12	
	131415161718	19202122231	24	
Alarm Tour Type	View 8 🔻			
Snapshot	123456)7891111	12	
	131415161718	19202122231	24	
Video Matrix	1			
Buzzer				
Copy P:	aste Defaul	t	Save	e Cancel

Figure 4-31

8	PTZ Activation	
1 None 👻 0	2 None 🔻 0 3 None 🔻 0	4 None 🔻 0
5 None 🔻 0	6 None 🔻 0 7 None 👻 0	8 None 🔻 0
9 None 🔻 0	10 None 🔻 0 11 None 🔻 0	12 None 🔽 0
13 None 🔻 0	14 None 🔻 0 15 None 👻 0	16 None 🔻 0
17 None 🕶 0	18 None 🔻 0 19 None 🕆 0	20 None 🔻 0
21 None 🔽 0	22 None 🔻 0 23 None 🔻 0	24 None 🔻 0
25 None 🔻 0	26 None 🔻 0 27 None 👻 0	28 None 🔻 0
29 None 🔻 0	30 None 🔻 0 31 None 🔻 0	32 None 🔻 🛛
	OK Cancel	
	OK Cancel	

Figure 4-32

B		_	_	<u>(</u>	_			Se	t				1	-	7
ſ	Wa	rk D	ay		٦(5	Set								
	00	:00		-24	:00)]		00	:00		-24 :(00		
	00	:00		-24	:00)			00	:00		-24 :()0	5	
	00	:00		-24	:00)			00	:00		-24 :()0		
					3	6	9	1	2	15	18	21	24		
Sun Mon						-	107			-	-	-			
Tue Wed															
Thu				H				-	-						
Fri Sat					-	-									
					3			1	2		18	21	24		
_															
	Cop	γ		P	aste			efaul	it 👘			OK	_)(Cano	el

Figure 4-33

		Set				X	
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Work Day	•	•	•	•	•		
Free Day						•	•
		Save		C	ancel		

Figure 4-34

4.8 Backup

DVR support USB device backup and network download. Here we introduce USB backup. 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 4-35. 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, SD card, and portable HDD.

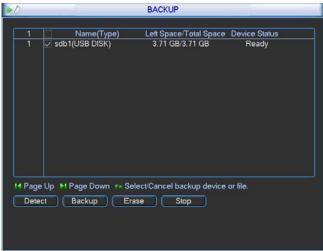


Figure 4-35

4.8.1 Backup

In Figure 4-35, click Backup button, you can go to the following interface. See Figure 4-36.

8	Backup					
Selected Device	sdc1(USB DISK)					
Туре	All Channel 1	▼File Format DAV ▼				
Start Time	2012 - 07 - 03 00 : 00 : 00	Remove Add				
End Time	2012 - 07 - 03 11 : 30 : 32	Onekey Backup				
0 СН Ту	pe Start Time End Time	Size(KB)				
	▶.					
Id Page Up	▶ Page Down Fn Select/Cancel backu	ip device or file.				
Space Required / Space Remaining:0.00 KB/1.59 GB Start						

Figure 4-36

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 automatically calculates the capacity needed and remained. See Figure 4-37.

system only backup files with a \checkmark 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.

8	Backup
Selected Device	sdc1(USB DISK)
Туре	All Channel File Format DAV
Start Time	💽 2012 - 07 - 03 00 : 00 : 00 Remove Add
End Time	0 2012 - 07 - 03 11 : 30 : 32 Onekey Backup
1024 🗌 CH ⁻	Type Start Time End Time Size(KB)
36 1	R 12-07-01 05:50:00 12-07-01 05:55:00 41091
37 🗸 1	R 12-07-01 05:55:00 12-07-01 06:00:00 41093
38 🗸 1	R 12-07-01 06:00:00 12-07-01 06:05:00 41102
39 1	R 12-07-01 06:05:00 12-07-01 06:10:00 41100
40 1	R 12-07-01 06:10:00 12-07-01 06:15:00 41136
41 🗌 1	R 12-07-01 06:15:00 12-07-01 06:20:00 41109
42 🗌 1	R 12-07-01 06:15:00 12-07-01 06:20:00 41109
43 🗌 1	R 12-07-01 06:20:00 12-07-01 06:25:00 41115
44 🗌 1	R 12-07-01 06:25:00 12-07-01 06:30:00 41092
45 🗌 1	R 12-07-01 06:30:00 12-07-01 06:35:00 41129
46 🗌 1	R 12-07-01 06:35:00 12-07-01 06:40:00 41096
47 🗌 1	R 12-07-01 06:40:00 12-07-01 06:45:00 41102
48 🗌 1	R 12-07-01 06:45:00 12-07-01 06:50:00 41117
49 1	<u>R 12-07-01 06:50:00 12-07-01 06:55:00 41100</u>
🚺 Page Up	▶ Page Down Fn Select/Cancel backup device or file.
Space Required	/ Space Remaining:80.27 MB/1.59 GB Start

Figure 4-37

Click backup button, system begins burning. At the same time, the start button becomes stop button. You can view the remaining time and process bar at the left bottom. See Figure 4-38. You can see the corresponding dialogue box if the backup succeeded or failed.

B	Backup
Selected Device	sdc1(USB DISK)
Туре	All Channel File Format DAV
Start Time	💽 2012 - 07 - 03 00 : 00 : 00 Remove Add
End Time	0 2012 - 07 - 03 11 : 30 : 32 Onekey Backup
1024 🗌 CH 1	Type Start Time End Time Size(KB) 🔺
36 🗌 1	R 12-07-01 05:50:00 12-07-01 05:55:00 41091
37 🔽 1	R 12-07-01 05:55:00 12-07-01 06:00:00 41093
38 🗸 1	R 12-07-01 06:00:00 12-07-01 06:05:00 41102
39 🗌 1	R 12-07-01 06:05:00 12-07-01 06:10:00 41100
40 🗌 1	R 12-07-01 06:10:00 12-07-01 06:15:00 41136
41 🗌 1	R 12-07-01 06:15:00 12-07-01 06:20:00 41109
42 1	R 12-07-01 06:15:00 12-07-01 06:20:00 41109
43 1	R 12-07-01 06:20:00 12-07-01 06:25:00 41115
44 1	R 12-07-01 06:25:00 12-07-01 06:30:00 41092
45 1	R 12-07-01 06:30:00 12-07-01 06:35:00 41129
46 🗖 1	R 12-07-01 06:35:00 12-07-01 06:40:00 41096
47 1	R 12-07-01 06:40:00 12-07-01 06:45:00 41102
48 1	R 12-07-01 06:45:00 12-07-01 06:50:00 41117
49 1	R 12-07-01 06:50:00 12-07-01 06:55:00 41100
🛃 Page Up	▶ Page Down Fe Select/Cancel backup device or file.
	Remaining time 0:0:22 Stop



- File format: Click the file format; you can see there are two options: DAV/ASF.
- Picture backup: Please set the corresponding time, channel and then select the type as PIC from the dropdown list. See Figure 4-39. Please click the Add button and then select the pictures. Click the Start button; you can copy the specified pictures to the selected portable devices.

All
Alarm
MD
Alarm/MD
Card
PIC

Figure 4-39

• One key backup: It includes three steps: the search, select all, start the backup. You can skip the above three steps and then copy all the searched files directly.

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.

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).

4.9 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 4-40. 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/TIL	T/ZOOM			-1
Channel	1					
Protocol	PELCOD					
Address	1					
Baudrate	9600					
Data Bits	8					
Stop Bits	1					
Parity	None					
				+		
Сору	Paste	Default		Save	Cancel	

Figure 4-40

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 4-41.



Figure 4-41

Click Pan/Tilt/Zoom, the interface is shown as below. See Figure 4-42. Here you can set the following items:

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

Please click icon and with to adjust zoom, focus and iris.





In Figure 4-42, please click direction arrows (See Figure 4-43) to adjust PTZ position. There are total 8 direction arrows.



Figure 4-43

4.8.3 3D Intelligent Positioning Key

In the middle of the eight direction arrows, there is a 3D intelligent positioning key. SeeFigure 4-44. 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 4-44

Here is a sheet for you reference.

Name	Function	function	Shortcut	Function	function	Shortcut
	key		key	key		Key
Zoom	I	Near	ŀ	Ð	Far	••
Focus	O	Near	◀	(Far	
Iris		close	◀	Ð	Open	► II

4.10 Preset/ Patrol/Pattern/Scan

In Figure 4-42, please click the "set" button. The interface is shown as below. See Figure 4-45. Here you can set the following items:

- Preset
- Tour
- Pattern
- Border





In Figure 4-42, click page switch button, the interface is shown as in Figure 4-46. Here you can activate the following functions:

- Preset
- Tour
- Pattern
- Auto scan
- Auto pan
- Flip
- Reset
- Page switch



Figure 4-46

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.
- The following setups are usually operated in the Figure 4-42, Figure 4-45 and Figure 4-46.

4.9.1Preset Setup

In Figure 4-42, use eight direction arrows to adjust camera to the proper position.

In Figure 4-45, click preset button and input preset number. The interface is shown as in Figure 4-47.

Now you can add this preset to one tour.

PAN	/TILT/ZOOM ×
Function Preset Tour Pattern Border	Preset 1 Patrol No. 0 Set Del Preset

Figure 4-47

4.9.2 Activate Preset

In Figure 4-46, please input preset number in the No. blank, and click preset button.

4.9.3 Patrol setup (Tour Setup)

In Figure 4-38, click patrol button. The interface is shown as in Figure 4-48.Input preset number and add this preset to a patrol (tour). For each patrol (tour), you can input max 80 presets.

Р/	N/TILT/ZOOM	\times
Function Preset Patrol Pattern Border	Preset 1 Patrol No. 0 Add Preset Del Preset	N

Figure 4-48

4.9.4 Activate Patrol (tour)

In Figure 4-45, input patrol (tour) number in the No. blank and click patrol button

4.9.5 Pattern Setup

In Figure 4-45, click pattern button and then click "begin" button. The interface is shown as in Figure 4-49. Then you can go to Figure 4-42 X to modify zoom, focus, and iris.

Go back to Figure 4-49 and click "end" button. You can memorize all these operations as pattern 1.

Р/	AN/TILT/ZOOM	X
Function Preset Patrol Pattern Border	Pattern 1 Patrol No. 0 Begin End	ł

Figure 4-49

4.9.6 Activate Pattern Function

In Figure 4-39, input mode value in the No. blank, and click pattern button.

4.9.7 Auto Scan Setup

In Figure 4-38, click border button. The interface is shown as in Figure 4-43. Please go to Figure 4-35, use direction arrows to select camera left limit Then please go to Figure 4-43 and click left limit button Repeat the above procedures to set right limit.

Р/	N/TILT/ZOOM	\times
Function Preset Patrol Pattern Border	Pattern 1 Patrol No. 0 Left Right	ĸ



4.9.8 Activate Auto Scan

In Figure 4-46, click "Auto Scan" button, the system begins auto scan. Correspondingly, the auto scan button becomes Stop button. Click stop button to terminate scan operation.

4.11 Flip

In Figure 4-46, click page switch button, you can see an interface is shown as below. See Figure 4-51. 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 4-42.

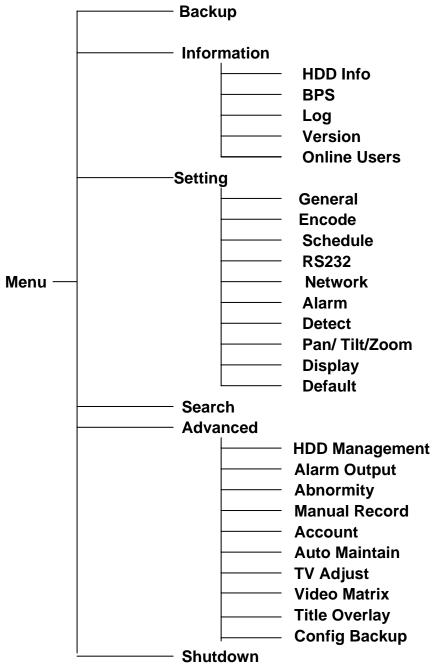


Figure 4-51

5 Understanding of Menu Operations and Controls

5.1 Menu Tree

This series DVR menu tree is shown as below.



5.2 Main Menu

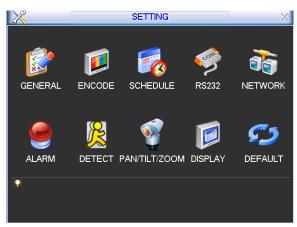
After you logged in, the system main menu is shown as below. See Figure 5-1. There are total six icons: search, Information, setting, backup, advanced and shutdown. Move the cursor to highlight the icon, then double click mouse to enter the sub-menu.



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.





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 hard disk is full. There are two options: stop recording or rewrite. If current working HDD is overwritten or the current HDD is full

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

- Pack duration: Here is for you to specify record duration. The value ranges from 60 to 120 minutes. Default value is 60 minutes.
- DVR No: When you are using one remote control (not included in the accessory bag) to control several DVRs, you can give a name to each DVR for your management.
- 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.
- Startup wizard: Once you check the box here, system will go to the startup wizard directly when the system restarts the next time. Otherwise, it will go to the login interface.
- Device ID: Please input a corresponding device name here.
- Real-time playback: It is to set playback time you can view in the preview interface (chapter 4.2 Live Viewing). The value ranges from 5 to 60 minutes.
- Startup wizard: Check the box here, system goes to the startup wizard when the device boots up the next time. Otherwise, it goes to the system login interface directly.
- Navigation bar: Check the box here, system displays the navigation bar on the interface.

Note:

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

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

	GENERAL	
System Time	2012 - 07 - 03 11 : 52 : 25	Save
Date Format		DST Set
Date Separator	· ·	Startup Wizard
Time Format	24-HOUR 🔻	Navigation
Language	ENGLISH 🔽	
HDD Full	Overwrite 🔻	▶
Video Standard	PAL 🔻	
Device No.	8	
Device ID	DVR	
Pack Duration	1 min.	
Realtime Play	60 min.	
Auto Logout	10 min.	
Default		OK Cancel



B	DST	
O Da	y of Week 🔍 Date	
Start:	2012 - 06 - 01 00 : 00	k
End:	2012 - 07 - 01 00 : 00	
	OK Cancel	

Figure 5-4

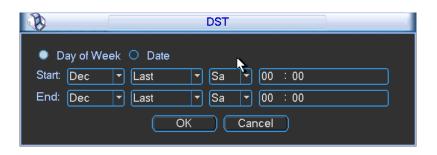


Figure 5-5

5.3.2 Encode

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 three options: regular/motion detect/alarm. You can set the various encode parameters for different record types.
- Compression: System supports H.264.
- Resolution: System supports various resolutions, you can select from the dropdown list. The main stream supports D1/HD1/2CIF/CIF/QCIF and the extra stream supports CIF/QCIF.
 Please note the 64-channel series product extra stream supports non-real time CIF and it max supports 1-16-channel extra stream function.
- Frame rate: It ranges from 1f/s to 25f/s in NTSC mode and 1f/s to 30f/s in PAL mode.
 - The 24/32-channel series product: for each 4-channel, there is one channel supports D1/HD1 (25/30fps) such as the channel-1/5/9/13.../25 and etc. For the rest channel, it supports D1/HD1 (6/7fps).
 - The 64-channel series product: for each 8-channel, there is one channel supports D1/HD1 (25/30fps) such as the channel-1/9/17.../57 and etc. For the rest channel, it supports D1/HD1 (6/7fps). For channel- channel-1/9/17.../57, the main stream default resolution is D1 and the rest channels are CIF.
- 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.
- Copy: 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.
- Overlay: Click overlay button, you can see an interface is shown in Figure 5-7.
- Cover area (Privacy mask): Here is for you to set privacy mask section. You can drag you mouse to set proper section size. In one channel video, system max supports 4 zones in one channel.
- Preview/monitor: privacy mask has two types. Preview and Monitor. Preview means the privacy mask zone can not be viewed by user when system is in preview status. Monitor means the privacy mask zone can not be view by the user when system is in monitor status.

- ☆ Time display: You can select system displays time or not when you playback. Please click set button and then drag the title to the corresponding position in the screen.
- Channel display: You can select system displays channel number or not when you playback.
 Please click set button and then drag the title to the corresponding position in the screen.
- Copy: 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.

[1	E	ENCODE		
Channel	1			
Туре	Regular 🔻	Extra Stream1 🔻		
Compression	H.264 🔻	MJPEG 🔻		
Resolution	2CIF 🔻	CIF		
Frame Rate(FPS)		25 🔻		
Bit Rate Type	CBR 🔽	CBR 🔻		
Bit Rate(Kb/S)	Customi: 🔻 0	2048 🔻		N
Reference Bit Rate	0-0Kb/S	576-2048Kb/S		*
Audio/Video				
Audio Format	G711a 🔻			
	OVERLAY			
	SNAPSHOT			
Сору Р	'aste Default	\supset	ОК	Cancel



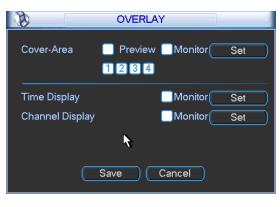


Figure 5-7

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 you to use the COM or mini-end software to upgrade or debug the program. The control keyboard is for you to control the device via the special keyboard. Transparent COM (adapter) is to connect to the PC to transfer data directly. Protocol COM is for card overlay function. Network keyboard is

for you to use the special keyboard to control the device. PTZ matrix is to connect to the peripheral matrix control.

- Baud rate: You can select proper baud rate.
- Data bit: You can select proper data bit. The value ranges from 5 to 8.
- Stop bit: There are three values: 1/1.5/2.
- Parity: there are five choices: none/odd/even/space mark.

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.

		RS232	
Function	Console 115200 8 1 None	k	
Default			Save Cancel

Figure 5-8

5.3.5 Network

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

- MAC address: The host in the LAN can get a unique MAC address. It is for you to access in the LAN. It is read-only.
- IP address: Here you can use up/down button (▲▼) or input the corresponding number to input IP address. Then you can set the corresponding subnet mask the default gateway.
- Subnet prefix: The input value ranges from 0 to 128. It is to mark a specified network MAC address. Usually it includes an organization of multiple-level.
- Default gateway: Here you can input the default gateway. Please note system needs to check the validity of all IPv6 addresses. The IP address and the default gateway shall be in the same IP section. That is to say, the specified length of the subnet prefix shall have the same string.

- DHCP: It is to auto search IP. When enable DHCP function, you can not modify IP/Subnet mask /Gateway. These values are from DHCP function. If you have not enabled DHCP function, IP/Subnet mask/Gateway display as zero. You need to disable DHCP function to view current IP information. Besides, when PPPoE is operating, you can not modify IP/Subnet mask /Gateway.
- TCP port: Default value is 37777. You can change if necessary.
- UDP port: Default value is 37778. You can change if necessary.
- HTTP port: Default value is 80.
- RTSP port: Default value is 554.

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

- Max connection: system support maximal 20 users. 0 means there is no connection limit.
- Preferred DNS server: DNS server IP address.
- Alternate DNS server: DNS server alternate address.
- Transfer mode: Here you can select the priority between fluency/video qualities.
- LAN download: System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.

Important

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

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

đ	NETWORK
IP Version IP Address Subnet Mask Gateway TCP Port UDP Port Max Connection Preferred DNS Alternate DNS	IPv4 • 20 2 2 7 DHCP 255 255 255 0 • 20 2 2 1 • 37777 HTTP Port 80 • 37778 RTSP Port 554 20 • • • 8 · 8 · 8 8 · 8 · 4 LAN Download · · •
NETWORK SET	TING Save Cancel

Figure 5-9

5.3.5.1 Network Setting

Network setting interface is shown as in Figure 5-10. Please check the box to enable corresponding function and then double click current item to go to setup interface.

	NETWORK SETTING	G
 IP FILTER NTP MULTICAST PPPOE DDNS UPNP 3G SETTING WIFI SETTING ✓ EMAIL FTP ALARM SERVER SNMP 	Trusted Sites : 0 time.windows.com : 60 239.255.42.42 No Available DDNS Setup Port Forwarding No Connection 10.1.0.97 : 25 Record FTP : 20.2.3.243 Private : 10.1.0.2	
•		
Default		Save Cancel

Figure 5-10

5.3.5.2 IP Filter

IP filter interface is shown as in Figure 5-11 (IPv4) and Figure 5-12 (IPv6). 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.

The system supports IPv4 and IPv6 address format.

Please note:

- If you input the IPv4 address format, system can change it to the IPv6 address format. For example, it can switch the IP:"10.6.2.230" to "::ffff:10.6.2.230".
- If you input the IPv6 address format, system needs to check its validity and optimize its format. For example, it can optimize IP:"fe80::0054:0cff:fefa:1682" to "fe80::54:cff:fefa:1682".

B	IP FILTER	
Restricted Type IP Version IP Address	Trusted Sites IPv4 10 6 2 230 Add IP	
::fff:10.6.2.230		
Delete IP ([Delete All	
Default	ОК	Cancel

Figure 5-11

Ø	IP FILTER
Restricted Type IP Version IP Address	Trusted Sites IPv6 2001:255::258:bc52 Add IP
12.2.4.7 2001:255::258:be	 c52
	N .
Delete IP)	Delete All
Default	OK Cancel

Figure 5-12

5.3.5.3 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 5-13.

- 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.
- Manual update: It allows you to synchronize the time with the server manually.

Here is a sheet for your time zone setup.

City /Region Name	Time Zone
London	GMT+0
Berlin	GMT+1
Cairo	GMT+2
Moscow	GMT+3
New Deli	GMT+5
Bangkok	GMT+7
Beijing (Hong Kong)	GMT+8
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	time.windows.com	123					
Port	123						
Time Zone	GMT+08:00						
Update Period	60	min.					
Default	OK Cancel) (Manual Update)					

Figure 5-13

5.3.5.4 Multiple Cast Setup

Multiple-cast setup interface is shown as in Figure 5-14.

	MULTICAST
IP Address Port	239 · 255 · 42 · 42 36666
Default	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

- 224.0.0.1 All systems in the sub-net
- 224.0.0.2 All routers in the sub-net
- 224.0.0.4 DVMRP router
- 224.0.0.5 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.

5.3.5.5 PPPoE

PPPoE interface is shown as in Figure 5-15.

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.

		PPP	OE				
User Name							
					-		
Password							\exists $_$
IP Address	0	0		0		0	
	0	0		0		0	
Default)	\square	O	<	\supset	<u> </u>	Cancel



5.3.5.6 DDNS Setup

DDNS setup interface is shown as in Figure 5-16.

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.

8		DDNS		
DDNS Type		📃 Enable		
Server IP	dynupdate.no-ip			
Port	80			
Domain Name			~	
User Name			4	
Password				
Update Period	300	sec.		
Default				OK Cancel

Figure 5-16

Please note NNDS type includes: CN99 DDNS, NO-IP DDNS, Private DDNS and Dyndns 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 UPNP

The UPNP protocol is to establish a mapping relationship between the LAN and the WAN. Please input the router IP address in the LAN in Figure 5-17. Double click the UPNP item in Figure 5-10, you can see the following interface. See Figure 5-17.

- UPNP on/off : Turn on or off the UPNP function of the device.
- Status: When the UPNP is offline, it shows as "Unknown". When the UPNP works it shows "Success"
- Router LAN IP: It is the router IP in the LAN.
- WAN IP: It is the router IP in the WAN.
- Port Mapping list: The port mapping list here is the one to one relationship with the router's port mapping setting.
- Enable Switch 🗹 : : It shows that the function of port mapping is enabled in this port.
- List:
 - ♦ Service name: Defined by user.
 - ♦ Protocol: Protocol type
 - ♦ Internal port: Port that has been mapped in the router.
 - ♦ External port: Port that has been mapped locally.
- Default: UPNP default port setting is the HTTP, TCP and UDP of the DVR.
- Add to the list: Click it to add the mapping relationship.
- Delete: Click it to remove one mapping item.

Double click one item; you can change the corresponding mapping information. See Figure 5-18. **Important:**

When you are setting the router external port, please use 1024~5000 port. Do not use wellknown port 1~255 and the system port 256~1023 to avoid conflict.

For the TCP and UDP, please make sure the internal port and external port are the same to guarantee the proper data transmission.

	UPNP			-
UPNP Status Unknow Router LAN IP 0 . 0	∓ O . 0 . 0			
3 Service Name 1 ✓ HTTP 2 ✓ TCP 3 ✓ UDP	Protocol TCP TCP UDP	Int.Port 80 37777 37778	Ext.Port 80 37777 37778	
Default (Add to the List)	Delete	C	ОК (Cancel

Figure 5-17

	PORT INFO
- · · ·	,
Service Name	ТСР
Protocol	TCP
Int.Port	37777
Ext.Port	37777
C	OK Cancel

Figure 5-18

5.3.5.8 WIFI Setting

You can view the WIFI connection status in the Network Setting interface. See Figure 5-19. You can view current connection status and IP address if there is a connection.

B	NETWORK SETTING	3
V IP FILTER NTP MULTICAST PPPOE	Trusted Sites : 0 time.windows.com : 60 239.255.42.42	
DDNS UPNP 3G SETTING	Private DDNS : Port Forwarding	
WIFLSETTING EMAIL ETP ALARM SERVER SNMP	No connection MailServer : 25 Record FTP : 0.0.0.0 Private : 10.1.0.2	
Default		Save Cancel

Figure 5-19

The WIFI interface is shown as below. See Figure 5-20.

- Auto connect WIFI: Check the box here, system automatically connects to the previous WIFI hotspot.
- Refresh: You can click it to search the hotspot list again. It can automatically add the information such as the password if you have set it before.
- Disconnect: Here you can click it to turn off the connection.
- Connect: Here you can click it to connect to the hotspot. System needs to turn off current connection and then connect to a new hotspot if there is connection of you selected one. See Figure 5-21.

0	WIFI SETTING				
	Auto Cor	nnect WIFI 🔲			
	7	SSID	Signal Intensity	WIFI Working In	formation
	1	TP-LINK_52019C	aut		
	2	10539		Current Hotspot	No connection
	3	xingjiaibn	anti i		
	4	TP-LINK_076ACA	1	IP Address	
	5	14029	anti i		
	6	10388		Subnet Mask	
	7	10333	and l		
				Gateway	
	Refres	h Connection	DisConnect	ОК С	Cancel Apply
	Relies		Disconnect		Cancel Apply

Figure 5-20

	VIFI Connection
SSID Connection Status	kqy No connection
Verification Type	WEP 🔽
Encrypt Type	AUTO
Connection Password	•••••
IP Address	0 · 0 · 0 · 0 DHCP
Subnet Mask	0 . 0 . 0 . 0
Gateway	0 . 0 . 0 . 0
ОК	Cancel Connection

Figure 5-21

After successfully connection, you can see the following interface. You can see it is connected now. See Figure 5-21.

	WIF	l Connec	tion		
SSID	k	qy			
Connection Sta	tus Co	onnected			
Verification Typ	e M	/EP	-		
Encrypt Type	A	UTO	-		
Connection Pa	ssword 💽	•••••	•••		
IP Address	19	92 . 168	- 1	. 100	DHCP
Subnet Mask	25	55 . 255	. 255	. 0]
Gateway	19	92 . 168	. 1	· 1)
	ок (Cancel		Connect)

Figure 5-22

• WIFI working status: Here you can view current connection status.

Please note:

- After successful connection, you can see WIFI connection icon at the top right corner of the preview interface.
- When the hotspot verification type is WEP, system displays as AUTO since the device can not detect its encryption type.
- System does not support verification type WPA and WPA2. The display may become abnormal for the verification type and encryption type.

After device successfully connected to the WIFI, you can view the hotspot name, IP address, subnet mask, default gateway and etc. See Figure 5-23.

7 1 2 3 4 5 6 7	SSID S TP-LINK_52019C xingjialbn 14029 TP-LINK_076ACA kqy 10388 10333	Signal Intensity attl attl attl attl attl attl attl	WIFI Working I Current Hotspo IP Address Subnet Mask Gateway	
Refre	esh (Connection)	(Disconnect)	<u> </u>	Cancel Apply

Figure 5-23

5.3.5.9 Email

The email interface is shown as below. See Figure 5-24.

- SMTP server: Please input your email SMTP server IP here.
- Port: Please input corresponding port value here.
- User name: Please input the user name to login the sender email box.
- Password: Please input the corresponding password here.
- Sender: Please input sender email box here.
- Title: Please input email subject here. System support English character and Arabic number. Max 32-digit.
- Receiver: Please input receiver email address here. System max supports 3 email boxes.
- SSL enable: System supports SSL encryption box.
- Interval: The send interval ranges from 0 to 3600 seconds. 0 means there is no interval.
- Health email enable: Please check the box here to enable this function. This function allows the system to send out the test email to check the connection is OK or not.
- Interval: Please check the above box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here. Click the Test button, you can see the corresponding dialogue box to see the email connection is OK or not. See Figure 5-25.

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

A.	EMAIL
SMTP Server	MailServer Port 25
Anonymous	
User Name	Password
Receiver	
Sender	
Title	
Attachment	
Encrypt Type	NONE
Event Interval	120 sec.
Health Enable	
Interval	60min.
Default	OK Cancel Test

Figure 5-24

B	Message	
Mail Te	st Error	
	ОК	

Figure 5-25

5.3.5.10 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 5-26.

Serv-U Administrator - << Local Server : File Edit User View Window Help	>>
	Access Group General Dir Access Dir Access Group Files Files

Figure 5-26

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 5-27.

nterne	t Explorer	
?	To log on to this FTP server, typ	pe a user name and password.
×	FTP server: 10.10.7.7	
	User name:	
	Password:	
	After you log on, you can add t	his server to your Favorites and return to it easily.
	Log on anonymously	
		Log On Cancel

Figure 5-27

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

In Figure 5-179, select FTP and then double click mouse. You can see the following interface. See Figure 5-28.

- 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.
- Now you can set upload file length, picture upload interval, upload file channel, time and type.
 - 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.
 - \diamond At the same time, you can set two periods, three record files for different channels.

• Click the Test button, you can see the corresponding dialogue box to see the FTP connection is OK or not. See Figure 5-29.

B	FTP
Server IP User Name Password Remote Directory Snapshot	0 . 0 . 0 . 0 Port 21
Channel Weekday Time Period 1 Time Period 2	1 • Tue • 00 :00 -24 :00 00 :00 -24 :00
Default	OK Cancel Test

Figure 5-28

Ø	Message
FTP T	est Connect Failed
	OK

Figure 5-29

5.3.5.11 Alarm Centre

This interface is reserved for you to develop.

5.3.5.12 SNMP

SNMP is an abbreviation of Simple Network Management Protocol. It provides the basic network management frame of the network management system. The SNMP widely used in many environments. It is used in many network device, software and system. You can set in the following interface. See Figure 5-30.

	SNMP		_
√2			
161			
public			
private			
		▶	
162			
		Save	Cancel
	/1 /2 161 oublic private	/1 /2 161 oublic private	/1 /2 161

Figure 5-30

Please enable the SNMP function. Use the corresponding software tool (MIB Builder and MG-SOFT MIB Browser.

Please follow the steps listed below to configure.

- In Figure 5-30, check the box to enable the SNMP function. Input the IP address of the PC than is running the software in the Trap address. You can use default setup for the rest items.
- Compile the above mentioned two MIB file via the software MIB Builder.
- Run MG-SOFT MIB Browser to load the file from the previous step to the software.
- Input the device IP you want to manage in the MG-SOFT MIB Browser. Please set the corresponding version for your future reference.
- Open the tree list on the MG-SOFT MIB Browser; you can get the device configuration. Here
 you can see the device has how many video channels, audio channels, application version
 and etc.

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 5-31.

- Protocol: Select corresponding PTZ protocol such as PELCOD.
- Address: input corresponding PTZ address.
- Baud rate: Select baud rate.
- Data bit: Select data bit.
- Stop bit: Select stop bit.
- Parity: There are three choices: none/odd/even.

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 Protocol Address	1 PELCOD V		
Baudrate			
Data Bits	8		
	1		
Parity	None		
		₩	
Сору	Paste Default) Save	Cancel

Figure 5-31

5.3.9 Display

Display setup interface is shown as below. See Figure 5-32.

- 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.
- Channel display: You can select to channel name or not when system is playback.
- Resolution: There are four options: 1280×1024(default),1280×720,1024×768,800×600.
 Please note the system needs to reboot to activate current setup.
- Image enhanced: Check the box; you can optimize the margin of the preview video.
- Enable tour: Activate tour function.
- Interval: System supports 1/4/8/9/16-window tour. Input proper interval value here. The value ranges from 5-120 seconds. In tour process, you can use mouse or click Shift to turn

on window switch function. 🖸 Stands for opening switch function, 🙆 stands for closing

switch function.

- Monitor tour type: System support 1/8-window tour.
- Alarm tour type: System support 1/8-window tour.

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

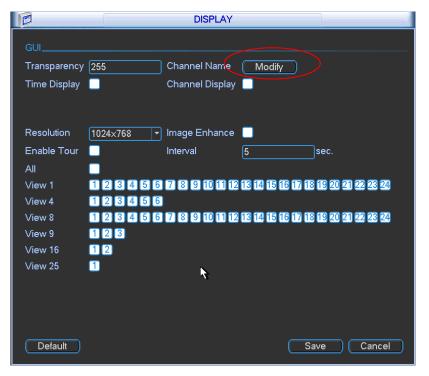


Figure 5-32

In Figure 5-32, click modify button after channel. You can see an interface is shown as in Figure 5-33. 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.

B	Ch	annel Nai	me	
CAM 1	[1#	CAM 2	<u>م</u>	,
CAM 3	3^^^^^	CAM 4	2 4]
CAM 5	5	CAM 6	6]
CAM 7	7	CAM 8	8)
CAM 9	9	CAM 10	10	,]
CAM 11	 [11	CAM 12		í I
CAM 13	[13	CAM 14	14	j
CAM 15	[15	CAM 16	16	►
CAM 17	17	CAM 18	18)
CAM 19	19	CAM 20	20)
CAM 21	21	CAM 22	22)
CAM 23	23	CAM 24	24825555555555)
Defau	lt)		Save (Cancel

Figure 5-33

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 disabling window function. See Figure 5-34.





5.3.10 Default

Click default icon, system pops up a dialogue box. You can highlight I to restore default factory setup. See Figure 5-26.

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

Please highlight icon 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 display mode, video format, IP address, user account will not maintain previous setup after default operation!

3	DEFAULT
Please select set	ting entries that you want to default.
Select all	
GENERAL	
SCHEDULE	RS232
NETWORK	🔲 ALARM 📃
DETECT	PAN/TILT/ZOOM
DISPLAY	CHANNEL NAME
	*
	OK Cancel

Figure 5-35

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 5-36. There are total eight function keys: HDD management, alarm output, abnormity, manual record, account, auto maintenance, TV adjust and video matrix.



Figure 5-36

5.5.1 HDD Management

Here is for you to view and implement hard disk management. See Figure 5-37. You can see current HDD type, status, capacity and record time. When HDD is working properly, system is shown as O. When HDD error occurred, system is shown as X.

- Alarm set: Click alarm set button, the interface is shown as below. See Figure 5-38. (This interface is just like the abnormity setup). Please refer to chapter 5.5.2 for detailed information.
- HDD operation: You can select HDD mode from the dropdown list such as read-only or you can erase all data in the HDD. Please note system needs to reboot to get all the modification activated.

	HDD MANAGE
SATA	1 2 3 4 5 6 7 8 Alarm Set HDD Setting O - O Alarm Release HDD Channel
ESATA	9 10 11 12 eSATA
HDD No.	1 Set to Read/Write T Execute
Туре	Read/Write
Status	Normal
Capacity	2.72 TB
Record Time	12-05-25 14:44:27 / 12-05-28 17:11:00 13-05-28 17:11:16 / 13-05-28 17:11:35 12-05-28 17:11:34 / 12-05-29 10:37:58 12-06-05 16:37:27 / 12-06-08 14:42:05 12-06-14 15:52:53 / 12-06-20 12:31:14 12-06-20 12:31:06 / 12-06-23 07:16:36
	ОК

Figure 5-37

Please highlight icon 📕 to select the corresponding function.						
		ABNORMALITY				
	Event Type Enable	No Disk				
	Alarm Out	12345 Latch 10 Alarm Upload Send Email	sec.			
	Buzzer	h :				
			Save Cancel			

Figure 5-38

For the HDD group setup operation, please note:

- Each channel's records can be stored into the specified HDD Group.
- Each HDD Group is corresponding to several hard disks, while one hard disk is only included in one HDD Group.
- Each channel is only corresponding with one HDD Group, while one HDD Group can store records from several channels.
- HDD Group is only available for read-write HDD and self-defined disks, other types of hard disks cannot be set as HDD Group.

Important:

• Current series software version can only set the HDD group operation of the read-write HDDs. It is not for the redundancy HDD or read-only HDD.

HDD Setting

Click the button "HDD Settings" at the top right corner of the Figure 5-37, system will pop up an interface as below. See Figure 5-39.

- HDD: Here you can view the HDD amount the device can support. If there is a mark **I** in the front of the number, it means current position has installed a HDD.
- HDD Group: It lists the HDD Group number of current hard disk.

When you are setting the HDD Group, please check the box of the hard disk, and then choose the corresponding HDD Group number and save the settings.

Please note, one HDD is corresponding to one group, while one group can have many HDDs. The HDD group No. is corresponding HDD port, the HDD group No. may vary if you change the HDD.

In Figure 5-39, you can see the system has two working hard disks at the first and second position, and the first hard disk belongs to HDD Group 1, the second hard disk belongs to HDD Group 2.

Important

Once you change the HDD Group settings, system will reboot!

	HDD Setting
HDD No. 1 2	HDD Group
	OK Cancel



Channels Setting

Click the button named with "Channels Settings" at the top right corner of the Figure 5-37, system will pop up an interface shown as in Figure 5-40.

Channel: Here you can view the actual channel amount of the device.

Group No.: It is the SN in the HDD group management. Here we can set HDD 1 and HDD 2 sets to as HDD group 1 and HDD group 2 respectively. You can see the HDD group option has only two options 1 and 2 when you set corresponding HDD group of the channel.

When you set the channel setup, please select the corresponding channel such as 1 and 2, and then select the HDD group such as 1. Click the Save button, you can complete the setup. In the Figure 5-40, you set channel 1 and channel 3 to the corresponding HDD group2 and set channel 2 and channel 4 to channel 16 to HDD group 1. In this setup, the records from channel 1 and channel 3 are both saved in HDD of the group 2. The records from channel 2 and channel 4 to channel 32 are all saved in HDD of the group 1.

When you are setting the configurations of the channels setting, please select relevant channels first (such as channel 1 to 16), and then select the HDD Group NO. Please click the Save button to save current setup.

Important

- Please make sure you have set HDD group for each channel, otherwise you can not save current setup!
- Once you change the HDD Group settings, system will pack the records and then reboot!

Tips

There is an easy way for you to test whether the records from the corresponding channel is saved in the specified HDD. You can remove the HDD and then check the channel can record or not. You can see the channel does not record and you can not search the previous record now.

		HDD	Channel	
channe 1 5 9 13 17 21	HDD Group	channel HDD Group 2 1 6 1 10 1 14 1 18 1 22 1	channel HDD Group 3 2 • 7 1 • 11 1 • 15 1 • 19 1 • 23 1 •	channel HDD Group 4 1 8 1 12 1 16 1 20 1 24 1
		Save	Cancel	▶;

Figure 5-40

5.5.2 Abnormity

Abnormity interface is shown as in Figure 5-41 and Figure 5-42.

- Event type: There are several options for you (Multiple choices) such as disk error, no disk, disconnection, IP conflict, MAC conflict and etc.
- Less than: You can set the threshold here. When the HDD space is less than the percentage you set here, system can generate an alarm.
- Alarm output: Please select alarm activation output port (multiple choices).
- Latch: Here you can set corresponding delaying time. The value ranges from 10s-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.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when alarm occurs.

	A	BNORMALITY		
Event Type Enable	No Disk 🔷			
Alarm Out	12345 Alarm Upload	Latch Send Email	(10]sec.
Buzzer	*			
			Save	Cancel

Figure 5-41

	ABNORMALITY	
Event Type Enable	Disk No Space ▼	
Less Than	20%	
Alarm Out	12345 Latch 10 set	с.
Buzzer		
	Save	Cancel

Figure 5-42

5.5.3 Alarm Output

Here is for you to set proper alarm output.

Please highlight icon 📕 to select the corresponding alarm output.

After all the setups please click OK button, system goes back to the previous menu. See Figure 5-43.

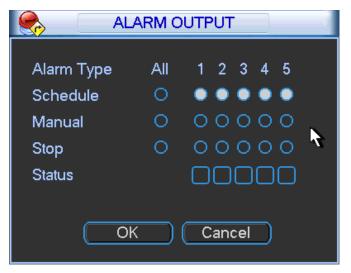


Figure 5-43

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 5-44. 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.

8	3		ACCO	DUNT
[4	User	Group	Status
	1	888888	admin	Login Local
	2	666666	user	Normal
	3	admin	admin	Login Net
	4	default	user	Default User
				▶
Į				
	Add U	ser)(Modify Us	er	
	Add Gr	oup) (Modify Gr	oup) (Modify Pas	sword

Figure 5-44

5.5.5.1 Modify Password

Click password button, the interface is shown as in Figure 5-45.

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.

	N	Nodify Password	
User Old Password	Test 🔻		
New Password			
Confirm			
		N	
		K	
		ave Cancel	

Figure 5-45

5.5.5.2 Add/Modify Group

Click add group button, the interface is shown as below. See Figure 5-46.

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 5-46.

8	Add Group										
Nam	Name OVERSE										
Mem	Memo										
81 Authority											
1	Control Panel										
2											
3											
4	<u> </u>										
5											
6											
7											
8											
9											
1											
1											
1	<u> </u>										
1											
<u> </u>											
	Page Up 附 Page Down 🕞 Enable/Disable Authority										
	Save Cancel										

Figure 5-46

5.5.5.3 Add/Modify User

Click add user button, the interface is shown as in Figure 5-47.

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 5-47.

8	Add User
User Password Memo	Test Reuseable Confirm
Group	admin
81 A	uthority
1 🗸	Control Panel
	Shutdown the Device
	Monitor
4 🗸	
5 6 7 8 7	
6 🗸	
7 🗹	
	-
9 🗸	
10 🗸	
	Jo Nopitor CH09
l age c	p of ruge bown on Enclore blacker Additionly
	Save Cancel

Figure 5-47

5.5.6 Auto Maintain

Here you can set auto-reboot time and auto-delete old files setup. You can set to delete the files for the specified days. See Figure 5-48.

You can select proper setup from dropdown list.

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

Figure 5-48

5.5.7 TV Adjust

Here is for you to adjust TV output setup. See Figure 5-49.

Please drag slide bar to adjust each item.

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

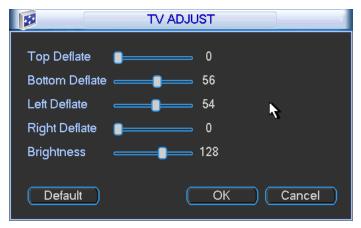


Figure 5-49

5.5.8 Video Matrix

Here you can set matrix output channel and its interval. See Figure 5-50. It can support the 1-window sport tour and you can specify the interval.

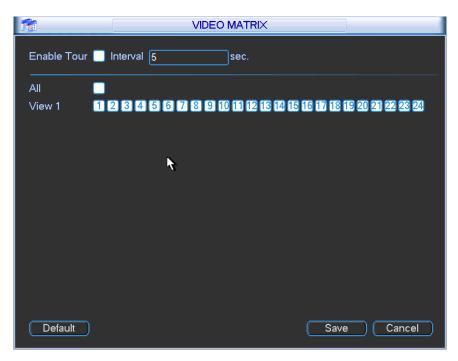


Figure 5-50

5.5.9 Card Overlay

The card overlay function is for financial areas. It includes Sniffer, information analysis and title overlay function. The Sniffer mode includes COM and network.

5.5.9.1 COM Type

The COM interface is shown as below. See Figure 5-51.

- Protocol: Please select from the dropdown list.
- Setting: Click COM setting button, the interface is shown as in RS232 interface. Please refer to Chapter 5.3.4 RS232.
- Overlay channel: Please select the channel you want to overlay the card number.
- Overlay mode: There are two options: preview and encode. Preview means overlay the card number in the local monitor video. Encode means overlay the card number in the record file.
- Overlay Position: Here you can select the proper overlay position from the dropdown list.

1	TEXT OVERLAY
Sniffer Mode	СОМ
Protocol	NONE
Setting	Com Setting
Overlay Channel	1 2 3 4 5 6 7 8 9 10 11 12
	16 12 15 16 17 16 18 20 21 22 28 28
Overlay Mode	Preview Encode
Overlay Position	RightTop 🔽
	Save Cancel

Figure 5-51

5.5.9.2 Network Type

The network type interface is shown as below. See Figure 5-52.

Here we take the ATM/POS protocol to continue.

There are two types: with or without the protocol according to client's requirements.

With the protocol

For ATM/POS with the protocol, you just need to set the source IP, destination IP (sometimes you need to input corresponding port number).

	CARD OVERLAY X
Sniffer Mode	NET
Protocols	ATM/POS
Setting	(ATM/POS)
Overlay Mode	Preview Encode
Overlay Channel	LeftTop 🔽
	Save Cancel

Figure 5-52

Without the protocol

For the ATM/POS without the protocol, the interface is shown as in Figure 5-53.

Source IP refers to host IP address that sends out information (usually it is the device host.)

Destination IP refers to other systems that receive information.

Usually you do not need to set source port and target port.

There are total four groups IP. The record channel applies to one group (optional) only. Six frame ID groups verification can guarantee information validity and legal.

				A	TM/P	os			
Data Group		Data	Group	o1 🔻					
Source IP		10	· 6 · 12 · 9 Port 0						
Destination IP		10	. 6	- 1	3.	25	Port 0		
Record Cha	innel	12	34						
	StartP	ositic	n Le	ngth		ŀ	(ey		
Frame ID1	1] [ban	k		Data	
Frame ID2	1		0					Data	
Frame ID3	1		0					Data	
Frame ID4	1		0					Data	
Frame ID5	1		0					Data	
Frame ID6	1		0					Data	
				Save	\Box	Can	cel		

Figure 5-53

Click Data button you can see an interface is shown as in Figure 5-54.

Here you can set offset value, length, title according to your communication protocol and data package.

S.				
	StartPosition	Length	Title	
Field1	5	10	card	
Field2	1	0		
Field3	1	0		
Field4	1	0		
				_
			Save Cancel)

Figure 5-54

5.5.10 Config File Backup

The configuration file backup interface is shown as below. See Figure 5-55. This function allows you to copy current system configuration to other devices.

	CONFIG BACKUP	
Device List		
Name(Type)	Left space/Total space	
sdb5(USB DISK)	15.00 GB/15.00 GB	EXPORT
		(IMPORT)
		,

Figure 5-55

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 5-56.

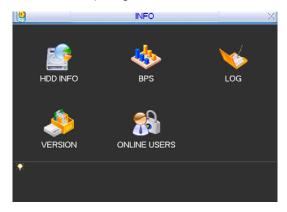


Figure 5-56

5.6.1 HDD Information

Here is to list hard disk type, total space, free space, video start time and status. See See Figure 5-57.0 means current HDD is normal. X means there is error. - means there is no HDD.

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

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

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

When HDD confliction occurs, you can check system time and HDD 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.

2		HD	D INFO						
SATA		5678 -0							
2	Туре	Total Space	Free Space	Status	S.M.A.R.T.				
All	-	3.63 TB	0.00 MB	-	-				
1* 2	Read/Write Read/Write	2.72 TB 931.40 GB	0.00 MB 0.00 MB	Normal Normal	Normal Normal				
					7				
•			11						
Image Up Image Down Image Up Image Down									

Figure 5-57

Tips:

Please click Fn button or left click mouse to view HDD record time and HDD type and time.

Double click one HDD information; you can see the HDD SMART information.

5.6.2 BPS

Here is for you to view current video data stream (KB/s) and occupied hard disk storage (MB/h). See Figure 5-58.

*	1		BPS	3	8			BPS	
Channel 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Kb/S 1714 98 109 1019 1073 1058 1041 1025 1043 1031 1052 1037 1036 98 1055 1095	MB/H 904 52 59 560 571 570 568 564 566 564 566 566 564 53 570 578	Wave	۲	Channel 17 18 19 20 21 22 23 24 24	Kb/S 50 51 52 51 52 52 52 1138	MB/H 19 20 20 20 20 20 20 20 20 586	Wave	
PrePage	a) (Nex	dPage	1/2(Curent Page/	Total Page)	PrePage		extPage	2/2(Curent Page/Total F	Page)

Figure 5-58

5.6.3 Log

Here is for you to view system log file. System lists the following information. See Figure 5-59. 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.

System max displays 100 logs in one page. It can max save 1024 log files.

Please page up/down button to view if there are more than ten files.

System also supports the backup function; you can click the backup button to save the log files in the USB devices.

V	LOG			
Туре				
Start Time 2012 - 07 - 03 00 : 00 : 00				
End Tim	ne 2012 - 07 - 04 00 : 00 : 00 Details Search			
99	Log Time Event			
88	2012-07-03 11:30:35 <video 19="" :="" loss=""></video>			
89	2012-07-03 11:30:35			
90	2012-07-03 11:30:35			
91	2012-07-03 11:30:35			
92	2012-07-03 11:30:36 <video 23="" :="" loss=""></video>			
93	2012-07-03 11:30:36 <video 24="" :="" loss=""></video>			
94	2012-07-03 11:30:36 Working HDD free space percentage:			
95	2012-07-03 11:30:36 Disk totals<2>, Current working disk<4			
96	2012-07-03 11:47:16			
97	2012-07-03 11:47:36 User logged in<888888>			
98	2012-07-03 11:47:36 SEARCH[2012-07-03 11:47:36]			
99	2012-07-03 11:48:36 SEARCH[2012-07-03 11:48:36]			
I4 Page Up ▶I Page Down Backup Clear				
PrePage NextPage 1/1(Curent Page/Total Page) Jump to 1 GO				

Figure 5-59

Click the Details button or double click the log item, you can view the detailed information. See Figure 5-60.

	Detailed Information
Log Time	2011-03-09 16:03:12
Log Туре	File operation>Record Playback
Туре	Record Playback
IP Address User	10.15.2.187 admin
Channel File Name	10 2011-03-08 15:00:142011-03-08 15:00:14 R
	2011-03-08 15:00:142011-03-08 15:00:14 R
Previous Next	(ОК)

Figure 5-60

5.6.4 Version

Here is for you to view hardware features, software version, built date, release SN information and etc. You can also update system here. See Figure 5-61.

• Start: Please insert the USB device that have the update file to the device and then click the Start button to begin the update.

Important

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

<u>چ</u>		VERSION				
Channels Alarm In Alarm Out	16					
-	2.610.0000.0 2012-07-03 2.1.7.55					
	YPA2FQ00600012		1			
If you need to upgrade system now,please insert USB upgrade disk,then press the start button to start upgrade.Don't shut down the power during upgrade!						
Start						

Figure 5-61

5.6.5 Online Users

Here is for you manage online users. See Figure 5-62.

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

System refreshes current interface every five seconds to detect there is any newly added or deleted user.

13	ONLINE USERS	>
User Name	IP	
J.W	10.6.2.37	
Disconnect	Block for 60 s	ec.

Figure 5-62

5.7 Shutdown

Double click shutdown button, system pops up a dialogue box for you to select. See Figure 5-63

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



Figure 5-63

6 About Auxiliary Menu

6.1 Go to Pan/Tilt/Zoom Menu

In the one-window surveillance mode, right click mouse (click "fn" Button in the front panel or click AUX key in the remote control). The interface is shown as below: See Figure 6-1.





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.



Figure 6-2

In Figure 6-2, please click direction arrows (See Figure 6-3) to adjust PTZ position. There are totally eight direction arrows. (Please note there are only four direction arrows in DVR front panel.)



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.



Figure 6-4

Here is a sheet for you reference.

Name	Function key	function	Shortcut key	Function key	function	Shortcut key
Zoom		Near	D.	(7)	Far	••
Focus	0	Near	◀	Ð	Far	
Iris		close	◀	Ð	Open	► II

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



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

P/	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 Figure 6-5, click patrol button. The interface is shown as in Figure 6-8. Input preset number and then add this preset to one patrol.



Figure 6-8

6.2.4 Activate Patrol

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

6.2.5 Pattern Setup

In Figure 6-5, click pattern button and then click begin button. The interface shows like Figure 6-9. 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.

<u>р</u>	AN/TILT/ZO	OM	×
Function Preset Patrol Pattern Border	_ Pattern Patrol No. Beg En		×

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.

<u>р</u> Р/	AN/TILT/ZOOM	X
Function Preset Patrol Pattern Border	Pattern 1 Patrol No. 0 Left Right	¥

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 to Figure 6-2.



Figure 6-11

7 WEB CLIENT OPERATION

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.
- Current series product supports various browsers such as Safari, firebox browser, Google browser. Device only support 1-channel monitor on the Apple PC.

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 7-1

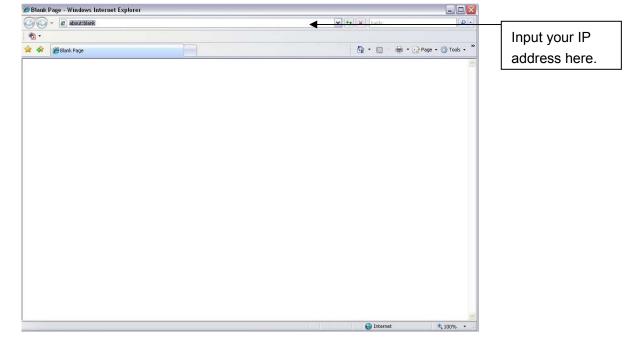


Figure 7-1

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.

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

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**.

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

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

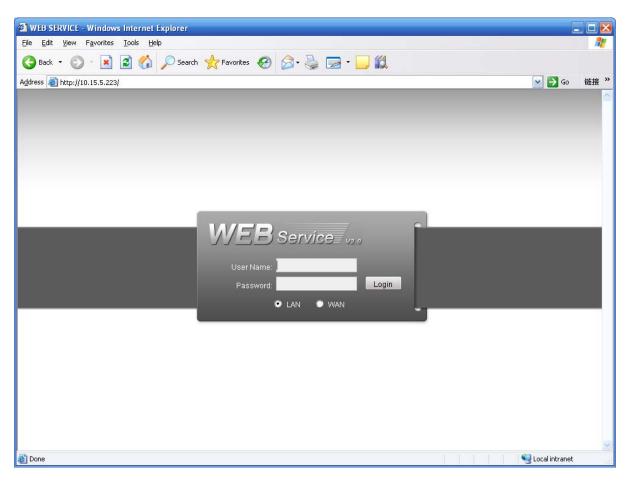


Figure 7-3

7.3 LAN Mode

For the LAN mode, 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.



Figure 7-4

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.

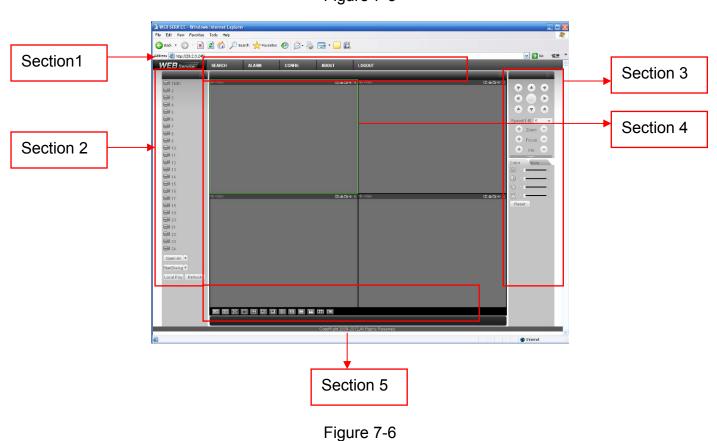


Figure 7-5

▋▆▖▆▖ॿ▖ॿ▖

7.3.1 Real-time Monitor

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

On the top left corner, you can view device IP, channel number, network monitor bit stream.



Figure 7-7

On the top right corer, there are six unction buttons. See Figure 7-8.

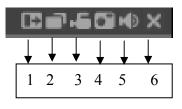


Figure 7-8

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

Please refer to Figure 7-9 for main stream and extra stream switch information.



Figure 7-9

Open All You can click it to open all channels.

Refresh

You can use button to refresh camera list.

Start Dialogue

You can click this button to enable audio talk. Click $[\bullet]$ to select bidirectional talk mode. There are four options: DEFAULT, G711a, G711u and PCM.

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

Local Play

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

Click local play button, system pops up the following interface for you to select local play file. See Figure 7-10.



Figure 7-10

7.3.2 PTZ

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

Click PTZ button, the interface is shown as in Figure 7-11.

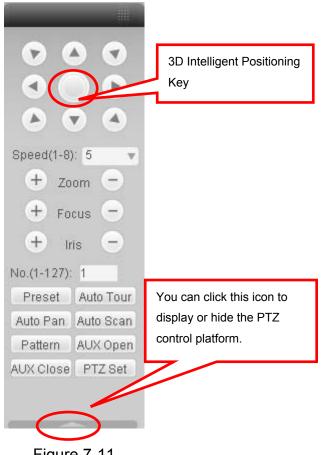


Figure 7-11

7.3.2.1 Direction key and 3D positioning key

In Figure 7-10, 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.

7.3.2.2 Speed

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

7.3.2.3 Zoom/Focus/Iris

Here is a sheet for you reference.

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

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

PTZ Set			X
Auto Scan			
	Left Limit	Right Limit	
Preset (Scope:1-80)	1		
	Add	Delete	
Auto Tour (Scope:0-7)			
	Add	Delete	Delete Group
Pattern (Scope:1-5)			
1	Start Record	Stop Record	
Assistant			
BLC	Start	Stop	
Matrix			
Monitor Output 0 Via	leo Input 0	Matrix ID 1	Video Switch
LightWiper			
	On	Off	
			Refresh

Figure 7-12

7.3.2.4 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. 7.3.2.5 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.

7.3.2.6 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.

7.3.2.7 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.

7.3.2.8 Assistant

You can select the assistant item from the dropdown list. See Figure 7-13.

7.3.2.9 Matrix

This series product supports matrix extension function. You can control the video input and output switch

7.3.2.10 Light and wiper

If your PTZ protocol supports the light and wiper control function. You can enable/disable the light or the wiper.

PTZ Set			X
Auto Scan			
	Left Limit	Right Limit	
Preset (Scope:1-80)			
1	Add	Delete	
Auto Tour (Scope:0-7)			
0	Add	Delete	Delete Group
Pattern (Scope:1-5)			
1	Start Record	Stop Record	
Assistant			
BLC	Start	Stop	
BLC Digital Zoom Night Vision			
Camera Brightness Flip	Video Input 0	Matrix ID 1	Video Switch
LightWiper			
	On	Off	
			Refresh

Figure 7-13

7.3.3 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	
錢司		- 🖻
		- 12
\bigcirc	-	- >
81	-	- ⊳
Reset		



7.3.4 Picture Path and Record Path

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



Figure 7-15

Click the record item; you can see there are two options: DAV/ASF. Click picture path button, you can see an interface is shown as in Figure 7-16. Please click choose button to modify path.

Set Path	1	X
Path	C:\PictureDownload Set Cancel	Choose

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	ı			×
Path	C:\RecordDown]	load		Choose
		Set	Cancel	

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.

7.4 WAN Login

In WAN mode, after you logged in, the interface is shown as below. See Figure 7-19.

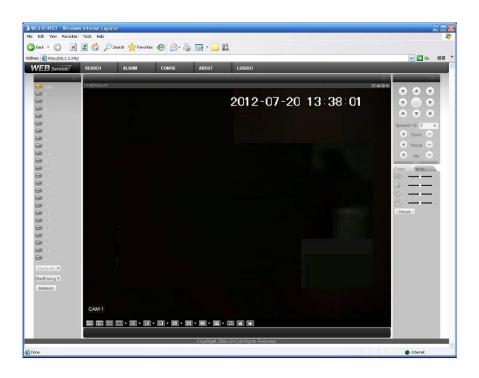


Figure 7-19

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

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

2) You can select different channel and different monitor mode at the bottom of the interface. See Figure 7-20.

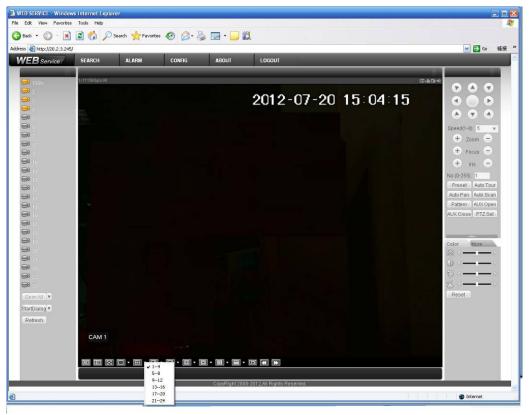


Figure 7-20

Important

The window display mode and the channel number are by default. For example, for the 24channel, the max window split mode is 25 and for the 36-channel, the max window split mode is 36.

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

4) When you switch from Monitor to Search or Configuration, system pops a dialogue box asking you leave current interface or not. See Figure 7-21.Click the OK button, system will close current monitor window. For example, you click the Config button when you are monitoring, system pos up a following dialogue. Click the OK button, system closes current monitor interface and open the configuration interface. The monitor interface appears automatically after you close configuration interface. When you switch from Search to the Configuration interface, system also pops up the same dialogue box for your confirmation. Click OK button, you can see system close playback interface and open the configuration interface. Please note, system will not open the playback interface again after you close the configuration interface.





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

Important

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

7.5 Configure

7.5.1 System Information

7.5.1.1 Version Information

Here you can view device hardware feature and software version information. See Figure 7-22.

Configuration			X
Control Panel Contr	Item S/N Device Type Video In/Out Audio In/Out Alarm In/Out Etherner Port R5232 BIOS Version	Status YPA2FQ00600012 None 24/1 16/1 16/5 1 2.610.0000.0,Build:2012-7-14	

Figure 7-22

7.5.1.2 HDD information

Here you can view local storage status and network status including, free capacity and total capacity. See Figure 7-23.

Control Panel UQERY SYSTEM INFO S/N HDD Status Free/Total Space Hdd bad tra Total Tota Tota Totad Tota Totad Tota Totad Tota Tota Tota Totad Tota Totad Tota	Configuration					
VERSION VEDUATION VE			— н	DD INFO		
IODI INFO LOG . 76.30B731.40B . Image: Comparison of the compar		S/N	HDD Status	Free/Total Space	Hdd bad tra	
	VERSION VEDDINFO VEDDINF	Total		76.35GB/931.40GB	-	Refresh

Figure 7-23

7.5.1.3 Log Here you can view system log. See Figure 7-24.

QUERY SYSTEM INFO	Туре		All	•					
	Start	Time	2011- 7-19	÷	12:12	<u>×</u>			
	End 1	ime	2012- 7-20		12:12	-	More Detail	Search	
SYSTEM CONFIG	20070	-	1		1				-
GENERAL	S/N	Туре		Event					_
🧰 ENCODE	1	Save	Config	2012-07-	19 17:21:44	Save ALARM I	Config!		
- CHEDULE	2	Local	Alarm	2012-07-	19 17:21:44	<local :<="" alarm="" td=""><td>1></td><td></td><td></td></local>	1>		
- Canal RS232	3	Save	Config	2012-07-	19 17:21:44	Save ALARM I	Config!		
	4	Local	Alarm	2012-07-	19 17:21:44	<local :<="" alarm="" td=""><td>1></td><td></td><td></td></local>	1>		
ALARM	5	Save	Config	2012-07-	19 17:21:44	Save ALMWor	ksheet Config!		
	6	Alarm	End	2012-07-	19 17:21:44	<local :<="" alarm="" td=""><td>1></td><td></td><td></td></local>	1>		
	7	Save	Config	2012-07-	19 17:22:04	Save ALMWor	ksheet Config!		
PAN/TILT/ZOOM	8	Alarm	End	2012-07-	1917:22:04	<local :<="" alarm="" td=""><td>1></td><td></td><td></td></local>	1>		
- DEFAULT/BACKUP	9	Local	Alarm	2012-07-	1917:23:04	<local :<="" alarm="" td=""><td>1></td><td></td><td></td></local>	1>		
ADVANCED	10	Save	Config	2012-07-	1917:23:44	Save ALARM	Config!		
ADDITIONAL FUNCTION	11	Alarm	End	2012-07-	19 17:23:44	<local :<="" alarm="" td=""><td>1></td><td></td><td></td></local>	1>		
	12	User	ogout	2012-07-	19 17:26:24	User logged ou	ut <admin></admin>		
	13	User				User logged in			
	14		LossOn			<video "<="" :="" loss="" td=""><td></td><td></td><td></td></video>			
	15	Video	LossOn	2012-07-	19 17:31:24	<video "<="" :="" loss="" td=""><td>19></td><td></td><td></td></video>	19>		
	16	Video	LossOn	2012-07-	1917:31:24	<video 2<="" :="" loss="" td=""><td>20></td><td></td><td></td></video>	20>		
	17	Video	LossOn	2012-07-	1917:31:24	<video 2<="" :="" loss="" td=""><td>21></td><td></td><td></td></video>	21>		
	18		LossOn			<video 2<="" :="" loss="" td=""><td></td><td></td><td></td></video>			
	19		LossOn		19 17:31:24				
	20		LossOn		19 17:33:25				
	21		LossOff			<video 1<="" :="" loss="" td=""><td>15</td><td></td><td></td></video>	15		
	22		Logout			User logged ou			-
	23	User				User logged in			-

Figure 7-24

Click backup button, the interface is shown as in Figure 7-25.

Save As					? 🔀
Save in: 🞯	Desktop	•	+	ď	
My Comput My Docume My Networ	ents				
File <u>n</u> ame:	2009-07-10 11_24_32(All)				<u>S</u> ave
Save as <u>t</u> ype:	Log File(*.log)		•		Cancel

Figure 7-25

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.
Start time	Please input start time here.
End time	Please input the end time here.
Clear	You can click this button to delete all displayed log files. Please note system does not support clear by type.
More details	Select one item and click this button, you can view the detailed log information.

Parameter	Function
Backup	You can click this button to backup log files to current PC.

7.5.2 System Configuration

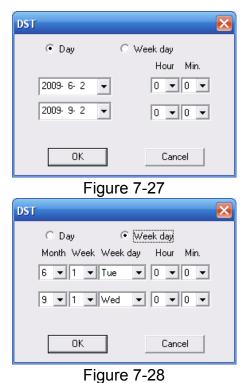
Please click save button to save your current setup.

7.5.2.1 General Setup

Here you can set system time, record length, video format and etc. See Figure 7-26.

Configuration				×
🖳 Control Panel		GENERAL	(
QUERY SYSTEM INFO	System Time	2012-07-20 💌 12:13	3:26 🔹 Save	Sync PC
HDD INFO HDD INFO CONFIG GENERAL GENE	Date Format Date Separator Time Format Language HDD Full Pack Duration Device No. Video Standard Device Name	YYYY MM DD	Minutes	Set

Figure 7-26



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 7-27 and Figure 7-28.
Language	You can select the language from the dropdown list. Device needs to reboot to get the modification activated.
HDD Full	There are two options: stop recording or overwrite the previous files when HDD is full. When current working HDD is overwriting or it is full now, system stops record. If current working HDD is full now, system goes to overwrite the previous file.
Pack Duration	Here you can select file size. The value ranges from 1 to 120.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.
Video Standard	There are two options: PAL/NTSC. Please note, for the Web user, this information is for reference only. You can not modify.
Device Name	Please input the corresponding device name here.

7.5.2.2 Encode

Encode interface is shown as in Figure 7-29.

ntrol Panel	3		ENC	CODE		
QUERY SYSTEM INFO	Channel	Channel 01	•	CHANNEL NAME	1\$\$h	
	Compression	H.264	•	Compression	H.264	-
SYSTEM CONFIG	Main Stream	Normal Stream	•	Extra Stream	Assistant1	-
ENCODE	Video/Audio		udio	Video/Audio	▼ Video □ A	udio
SCHEDULE	Resolution	2CIF	•	Resolution	CIF	•
🚞 R5232 河 Network	Frame Rate(FPS)	25	•	Frame Rate(FPS)	6	•
🛅 ALARM	Bit Rate Type	CBR	•	Bit Rate Type	CBR	•
DETECT PAN/TILT/ZOOM DEFAULT/BACKUP ADVANCED ADDTIONAL FUNCTION	Bit Rate(Kb/s) Reference Bit Rate	1280 💌 384~2048Kbps		Bit Rate(Kb/s) Reference Bit Rate	160 ▼ • 40~256Kbps	
	Color Setting	S	et	🗖 Watermark	S	et
	Overlay —			Audio format	G711a	•
	Cover-Area	NEVER	•	Set		
	🔽 Time Display	S	et	Channel Displa	y S	et
	Сору				Save	Refresh

Figure 7-29

Color Settin	8				X
Brightness 52 0~100	Contrast 49 0~100	Saturation 50 0~100	Hue 50 0~100	 ✓ Gain 49 0~100 	
	OK		Cancel		

Figure 7-30

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	The main bit stream supports H.264. The extra stream supports H.264, MJPG.
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.

Parameter	Function
Audio/Video	For the main stream, recorded file only contains video by default. You 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 then select the audio if necessary.
Resolution	System supports various resolutions, you can select from the dropdown list. The main stream supports D1/HD1/BCIF/CIF/QCIF and the extra stream supports CIF/QCIF. Please note the option may vary due to different series.
	Please note the 64-channel series product extra stream supports non-real time CIF and it max supports 1-16-channel extra stream function.
Frame Rate	PAL: 1~25f/s; NTSC: 1~30f/s.
	 The 24/32-channel series product: for each 4-channel, there is one channel supports D1/HD1 (25/30fps) such as the channel- 1/5/9/13/25 and etc. For the rest channel, it supports D1/HD1 (6/7fps).
	 The 64-channel series product: for each 8-channel, there is one channel supports D1/HD1 (25/30fps) such as the channel-1/9/17/57 and etc. For the rest channel, it supports D1/HD1 (6/7fps). For channel- channel-1/9/17/57, the main stream default resolution is D1 and the rest channels are 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 7-30. Please note, some series devices do not support OSD transparent setup function.
Cover area	• Here you can privacy mask the specified video in the monitor video.
(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. Please note OSD transparent setup is form special series only.
	 You can use the mouse to drag the time tile position.

Parameter	Function
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.
Сору	It is a shortcut menu button. You can copy current channel setup to one or more channels. The interface is shown as in Figure 7-28.
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 7-31.

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	Сору То 🛛 🔀								
	All Channel								
1	2	3	4	5	6	7	8		
9	10	11	12	13	14	15	16		
17	18	19	20	21	22	23	24		
	OK Cancel								
	<u>.</u>			_	Cance	<u> </u>			

Figure 7-31

7.5.2.3 Schedule

Here you can set different periods for various days. There are max six periods in one day. See Figure 7-32.

Configuration							X
Control Panel	Channel Chan	nel 01 💌	Prerecord	CHEDULE			
HDD INFO	Period Info – 0	Regular 4	<mark>і</mark> мD 8	Alarm 12	16	MD&Alarm 20	24
	Sun -			RECORD)		Set
Call RS232	Mon -	aa ta	4. 4.	RECORD			Set
	Wed -			RECORE			Set
	Thu	<u>, , , ,</u>	L A	RECORI			Set
	Fri	<u>a a e</u>	e a	RECORI). 	i (i i	Set
	Sat =	21 - 12 -	i ii	RECORD)		Set
	Holiday		1, 1	RECORD)		Set
	Сору		T Holic	lay Set		Save	Refresh

Figure 7-32

Defa	ult	1	Current	l _{Ba}		Recor MD	d Alarm	Snapshot Regular MD Alam		
Period 1	00:00	<u>+</u> -	23:59:59	+		V				
Period 2	0:00:00	÷	23:59:59	÷.		Г				Γ
Period 3	0:00:00	-	23:59:59					П		Γ
Period 4	0:00:00	+	23:59:59	+		Γ		Г		Γ
Period 5	0:00:00	+	23:59:59	+		Γ		Г		Г
Period 6	0:00:00	÷	23:59:59	÷		Г		Г		Г
🔽 Sun	□ Мо	n	🗖 Tue	Γw	ed					
🗌 Thu	🗆 Fri		🗆 Sat							

Figure 7-33

Defa	ult		Current	Be	qular	MD	Alarm	MD&Alan
Period 1	[:00:00	÷	23:59:59	÷			Γ	
Period 2	0:00:00	÷	23:59:59	•			Г	
Period 3	0:00:00	•	23:59:59	•		Γ		
Period 4	0:00:00	÷	23:59:59	÷				
Period 5	0:00:00	÷	23:59:59	÷				
Period 6	0:00:00	÷	23:59:59	•				
	2						_	
🗆 Sun	🗌 Mon		🗆 Tue	□ w	ed			
🗆 Thu	🗆 Fri		🖂 Sat	M He	oliday			

Figure 7-34

Calend	ar							E
			2	012-6	3			
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	
						1	2	
	з	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	
Cancel								

Figure 7-35

Parameter	Function
Channel	Please select a channel first.
Pre-record	Please input pre-record value here.
	System can record the three to five seconds video before activating the record operation into the file. (Depends on data size).
Setup	 In Figure 7-32, click set button, you can go to the corresponding setup interface. See Figure 7-33.
	 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 7-32 and then click save to save current time period setup.

Parameter	Function
Holiday	Click Set button, system pops up a dialogue box shown as in Figure 7-35.
	Here you can set holiday date. Check the box, it means current chanr shall record as your holiday setup. Please go to the Period interface to set the holiday date record 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 Figure 7-31.
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.

7.5.2.4 RS232

The RS232 interface is shown as in Figure 7-36.

Configuration						
Sontrol Panel			-	RS232	(
QUERY SYSTEM INFO VERSION	RS232 COM	COM 01	•			
	Function	Console	•			
GINERAL	Data Bits	8	•			
ENCODE	Stop Bits	1	•			
CHEDULE CHEDULE R5232	Baud Rate	115200	•			
E E NETWORK ALARM	Parity	None	•			
DETECT						
DEFAULT/BACKUP						
ADVANCED ADDTIONAL FUNCTION						
					Save	Refresh

Figure 7-36

Parameter	Function
RS232	There are two options: COM 01 and keyboard.
Function	Console is to upgrade the program or debug via COM or mini terminal software.
	Keyboard: COM control protocol. You can use keyboard to control DVR via COM.
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.

Parameter	Function
Parity	There are five options: none/odd/even/space/mark.

System default setup is:

- Function: Console.
- Data bit: 8
- Stop bit: 1
- Baud bit: 115200
- Parity: None.
- 7.5.2.5 Network

Network interface is shown as in Figure 7-37.

Configuration		NE	TWORK
QUERY SYSTEM INFO VERSION VERSION Conversion Conversio	IP version Ethernet Port IP Address Subnet Mask Gateway	Port 01 ▼ 20 2 3 245 255 255 0 0 0 1	DHCP Mac Address 20:12:07:19:20:17
	TCP Port UDP Port Preferred Alternate DNS	37777 HTTP Port 37778 Max Connection 8 8 8 8 8 4 4 4	80 RTSP Port 554 20
B- C ADDTIONAL FUNCTION			Save Refresh

Figure 7-37

Parameter	Function
IP Version	There are two options: IPv4 and IPv6. Right now, system supports these two IP address format and you can access via them.
MAC Address	The host in the LAN can get a unique MAC address. It is for you to access in the LAN. It is read-only.
IP Address	Here you can use up/down button (▲▼) or input the corresponding number to input IP address. Then you can set the corresponding subnet mask the default gateway.
Subnet Prefix	The input value ranges from 0 to 128. It is to mark a specified network MAC address. Usually it includes an organization of multiple-level.

Parameter	Function
Default Gateway	Here you can input the default gateway. Please note system needs to check the validity of all IPv6 addresses. The IP address and the default gateway shall be in the same IP section. That is to say, the specified length of the subnet prefix shall have the same string.
TCP Port	Default value is 37777.
HTTP Port	Default value is 554.
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.

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.

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.

Configuration					X
Control Panel Control Panel QUERY SYSTEM INFO QUERY SYSTEM INFO QUERY SYSTEM CONFIG CONFIG SYSTEM CONFIG CO	Service User Password	MULTICAST	IP Address Port	239 . 255 . 4	2 . 42
-				Save	Refresh

Figure 7-38

Email

The email interface is shown as in Figure 7-39.

Control Panel			EMAIL		
VERSION	SMTP Server	10.1.0.97	1	🔽 Enable	
HDD INFO UCG GENERAL ENCODE SECODE SECODE SECODE SECODE SECODE ENCODE SECODE	Port User Name Password Sender Subject. Receiver 1 Receiver 2 Receiver 3 Send Interval Health Mail Enable Interval	25 DVR ALE	1~65500 ERT sec. Minute	Encrypt Type	NONE Attachment
ALARM DETECT PAN/TILT/ZOOM DEFAULT/BACKUP ADVANCED ADUTIONAL FUNCTION			T	est Save	Refresh

Figure 7-39

Please refer to the following sheet for detailed information.

Parameter	Function
SMTP Server	Input server address and then enable this function.
Port	Input port value here.
User Name	The sender email account user name.
Password	The sender email account password.
Sender	Sender email address.
Subject	Input email subject here. Max 32-digit.
Address	Input receiver email address here. Max input three addresses. Support SSL encryption mailbox.
Health mail enable	Please check the box here to enable this function. This function allows the system to send out the test email to check the connection is OK or not.
Health mail interval	Please check the above box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here.

DDNS

The DDNS interface is shown as in Figure 7-40.

Please make sure your DVR support this function.



Figure 7-40

Please refer to the following sheet for detailed information.

Parameter	Function
Server Type	You can select DDNS protocol (Multiple-choice) from the dropdown list and then enable DDNS function.
Server IP	DDNS server IP address
Server Port	DDNS server port.
Domain Name	Your self-defined domain name.
User	The user name you input to log in the server.
Password	The password you input to log in the server.
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 7-41.

Please make sure your DVR support this function.

Control Panel		NAS		
QUERY SYSTEM INFO	✓ NAS Enable FTP Mode Server IP 0.0.0.0	Port	21	21~65535
	User Name	File Size	0	MB
TT SYSTEM CONFIG	Password	Upload Interval	2	sec.
GENERAL	Bemote Path	opiose interior		
	Period Info			
- Canado Cala		Regular 📕 MD	Alarm	
		12 16	20	24
ADVANCE EMAIL		Sun		Set
DDNS				
		Mon		Set
		Tue		Set
UPNP		Wed	, , ,	Set
DETECT PAN/TILT/ZOOM DEFAULT/BACKUP MOVANCED ADDITIONAL FUNCTION		Thu		Set
		Fri		Set
		Sat		Set
	Сору		Save	Refresh

Figure 7-41

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 7-42.

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						X
Control Panel QUERY SYSTEM INFO QUERY SYSTEM INFO HDD INFO GTORE GENERAL GENERA	♥ Enable Server IP Port Time Zone Update Period	time.windows.com 123 GMT+08:00 60	NTP n	Minutes		
					Save	Refresh

Figure 7-42

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. See Figure 7-43.

This interface is for you to develop. The alarm signal can be uploaded to the alarm centre when there is local alarm.

Please set the corresponding parameters such as server IP, port and etc.

The system can send out the data as the protocol defined to the client-end.

Configuration		×
Control Panel QUERY SYSTEM INFO YERSION YERSION GIVED INFO COG SYSTEM CONFIG GIVERAL COCOE SCHEDULE SCHEDULE SCHEDULE SSUMP COCOE SIMP ALARM DEFAULT/BACKUP ADDITIONAL FUNCTION	I Enable Server IP Port Day Hour	ALARM CENTRE 20 2 3 243 666 1~65535 Everyday 8 Save Refresh

Figure 7-43

UNPN

Go to the UPnP interface, you can see an image is shown as in Figure 7-44.

It allows you to establish the mapping relationship between the LAN and the public network. Here you can also add, modify or remove UPnP item.

Configuration							
Control Panel		Status: searching		ing	VPNP Enable		
HDD INFO	Internal Addr External Addr		nternal Addr 0.0.0.0				
SYSTEM CONFIG GENERAL ENCODE			0.0.0.0)			
SCHEDULE	Port n	napping lis Server l		Protocol	Internal Port	External Port	1
	173	HTTP	Name	TCP	80	80	_
		TCP		TCP	37777	37777	
ADVANCED SETUP		UDP		UDP	37778	37778	
Ciai Email		RTSP		UDP	554	554	
		RTSP		TCP	554	554	
NTP		SNMP		UDP	161	161	
ALARM CENTRE		STANT		001	101		
- Canal SNMP							
- ALARM							
DETECT							
DEFAULT/BACKUP ADVANCED							
HODITONHEI ONCHON							
	1						
			r	1			
	Add	Mapping		Delete		SaveRefr	esn

Figure 7-44 UNPN

The SNMP interface is shown as in Figure 7-45.

SNMP is an abbreviation of Simple Network Management Protocol. It provides the basic network management frame of the network management system. The SNMP widely used in many environments. It is used in many network device, software and system. Please refer to chapter 5.3.5.12 SNMP for detailed information.

Configuration			X
Configuration	✓ SNMP Enable ✓ Version 1 SNMP Port Read Common Write Common Trap IP Trap Port	SNMP	
		Save Refresh	

Figure 7-45 SNMP

7.5.2.6 Alarm

Alarm setup interface is shown as in Figure 7-46.

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

Configuration	
🖳 Control Panel	ALARM
QUERY SYSTEM INFO VERSION VERSION CODE	Event Type Local Alarm 💌
	Alarm In Input 01 V Type Normal Open V
	Period Set Anti-dither 5 sec. 5~600 Image: Alarm Out 1 2 3 4 5 5
	Latch 10 sec. 1~300 🔽 Alarm Upload
	▼ Record Channel < 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 >
	Record Latch 10 sec. 10~300 SMS
	Send Email Show Message Buzzer
	Tour <1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 >
	PTZ Activation Set
	Capture < 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 >
	MatrixEnable 1
	Copy Save Refresh

Figure 7-46

hannel	Event Type	Addr.	Channel	Event Ty	pe Addr.	Channel	Event Type	Addr.
1	Never	• 0	9	Never	• 0	17	Never	
2	Never	• 0	10	Never	• 0	18	Never	▼ 0
з	Never	• 0	11	Never	• 0	19	Never	• 0
4	Never	• 0	12	Never	• 0		Never	• 0
5	Never	• 0	13	Never	• 0	21	Never	• 0
6	Never	• 0	14	Never	• 0	22	Never	• 0
7	Never	• 0	15	Never	• 0	23	Never	• 0
8	Never	- 0	16	Never	• 0	24	Never	- 0

Figure 7-47

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. 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 3 to 600s.
Normal Out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurred.
Alarm Latch	System can delay the alarm output for specified time after alarm ended. The value ranges from 1 second to 300 seconds.
Show message	System pops up the alarm messages in the monitor interface.
Buzzer	Once you check the box here, the buzzer beeps when an alarm occurred.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Record Channel	System auto activates current channel to record once alarm occurs (working with alarm activation function). Please note current device shall be in auto record mode (Chapter 4.4 Schedule).
Record Latch	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
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)
PTZ activation	Here you can set PTZ movement when alarm occurs. Such as go to preset x when there is an alarm. The PTZ configuration events include preset, tour, and pattern.

Parameter	Function
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.

7.5.2.7 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 7-48.

Configuration	Σ	<
📃 Control Panel	DETECT	
QUERY SYSTEM INFO VERSION	Event Type Motion Detect 💌	
HDD INFO	Channel Channel 01 V Sensitivity 3 V	
E TSYSTEM CONFIG	Region Select	
GENERAL	Period Set Anti-dither 5 sec. 5~600	
Schedule S232 Network	Image: Alarm Out 1 2 3 4 5	
	Latch 300 sec. 1~300 🔽 Alarm Upload	
	▼ Record Channel < 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 >	
DEFAULT/BACKUP ADVANCED	Record Latch 300 sec. 10~300 🔽 SMS	
	Image: Send Email Image: Show Message Image: Buzzer	
	Tour I	
	✓ PTZ Activation Set	
	Capture < 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 >	
	✓ MatrixEnable	
	Copy Save Refresh	

Figure 7-48

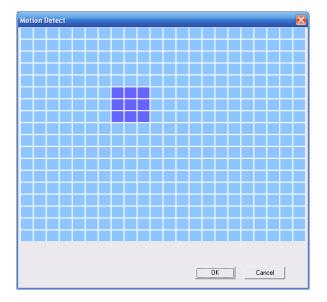


Figure 7-49

Parameter	Function
Event Type	There are three types: Motion detection/video loss/Camera Masking.
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.
Region	 There are six levels. The sixth level has the highest sensitivity. Region: If you select motion detection type, you can click this button to set motion detection zone. The interface is shown as in Figure 7-49. 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 3s to 600s.
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 latch	System can delay the alarm output for specified time after alarm end The value ranges from 1s to 300s.
Show message	System pops up the alarm messages in the monitor interface.
Buzzer	Once you check the box here, the buzzer beeps when an alarm occurred.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Record channel	System auto activates motion detection channel (multiple choices) to 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 latch	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Email	If you enabled this function, System can send out email to alert you when alarm occurs and ends.

Parameter	Function
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)
PTZ Activation	• Here you can set PTZ movement when alarm occurs. Such as go to preset x when there is an alarm.
Capture	You need to input capture channel number so that system can backup motion detection snapshot file.
Matrix Enable	Please note this function is valid in motion detect mode. Check the box here to enable video matrix function. Right now system supports one-channel tour function. System takes "first come and first serve" principle to deal with the activated tour. System will process the new tour when a new alarm occurs after previous alarm ended. Otherwise it restores the previous output status before the alarm activation.
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.

7.5.2.8 PTZ

PTZ interface is shown as in Figure 7-50.

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	-
QUERY SYSTEM INFO VERSION HDD INFO LOG	Channel	Channel 01	
ENG SYSTEM CONFIG	Protocol	PELCOD	
	Address	6 0~255	
🔚 R5232	Baud Rate	1200	
	Data Bits	8	
	Stop Bits	1	
DEFAULT/BACKUP ADVANCED ADUTIONAL FUNCTION	Parity	None	
	Сору	Save Refresh	

Figure 7-50

Parameter	Function
Channel	You can select monitor channel from the dropdown list

Parameter	Function
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.

7.5.2.9 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 7-51.

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

Configuration			×
🖳 Control Panel		DEFAULT/BACKUP	
QUERY SYSTEM INFO VERSION	Please select setting entrie	is that you want to default.	
HDD INFO	Select all	Default	
G-T SYSTEM CONFIG	GENERAL		
ENCODE ENCODE	SCHEDULE	□ RS232	
	RETWORK	C ALARM	
- 🛅 ALARM	DETECT	PAN/TILT/ZOOM	
DETECT PAN/TILT/ZOOM DEFAULT/BACKUP OF ADVANCED ADDIONAL FUNCTION	C DISPLAY		
	Config Backup		
	Default Path: C:\Doo	cuments and Settings\10881\Desktop\	
	Export Config	Import Config	

Figure 7-51

Parameter	Function
Select All	Restore factory default setup.

Parameter	Function
Export Configuration	Export system configuration to local PC.
Import Configuration	Import configuration from PC to the system.

7.5.3 Advanced

7.5.3.1 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 7-52.

Configuration			
📃 Control Panel 🛛 –		HDD MANAGEMENT	
QUERY SYSTEM INFO	HDD MANAGEMENT	C Format C Read/Write C Read Dnly	
		Execute	



Please refer to the following sheet for detailed information.

Parameter	Function
Format	Clear data in the disk.
Read/write	Set current disk as read/write
Read only	Set current disk as read.
Redundant	Set current disk as redundant disk.
Recover	Recover dada after error occurs.
Use as snapshot	Set current disk as snapshot disk.

Please note system needs to reboot to activate current setup.

7.5.3.2 Alarm I/O

Here you can search alarm output status. See Figure 7-53.

Configuration					×
📃 Control Panel	-	AU	ARM 1/O CONFIG		
QUERY SYSTEM INFO W VERSION	Alarm Out	-			
HDD INFO	Mode All	1234			
E SYSTEM CONFIG	Schedule • Manual ·				
🗄 🌯 ADVANCED	Stop C	0000			
HDD MANAGEMENT	Status				
				Save Refresh	
RECORD ACCOUNT					
- SNAPSHOT					
AUTO MAINTENANCE					
PREVIEW CONTROL					
ADDTIONAL FUNCTION					



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 three output channels (Multiple choices). Please note the displayed alarm output channel amount here may vary due to the different series.
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.

7.5.3.3 Record

Record control interface is shown as in Figure 7-54.

The bit stream type includes main stream and extra stream.

Configuration																			X
Control Panel	RECORD RECORD																		
HDD INFO	Main Stream	Mai	n Stre	eam	•														
HDD MANAGEMENT ABNORMALITY ALARM I/O CONFIG RECORD	Mode Schedule Manual Stop	С	1000	• •	C	•	• 0	• •	• •	С	•	• •	• •	• •	• •	• •	• •	е С	
ACCOUNT SNAPSHOT AUTO MAINTENANCE VIDEO MATRIX PREVIEW CONTROL ADDTIONAL FUNCTION	Mode Schedule Manual Stop		(C	18 © ©	• •	• •	0.0	• •	• •	• C									
												Sav	'e		F	Refre	sh]	

Figure 7-54

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.

7.5.3.4 Account

Here you can add, remove user or modify password. See Figure 7-55.

Configuration		Ε
Configuration	Account admin B888888 [Reuseable] admin [Reuseable] User B55555 [Reuseable] default	ACCOUNT Add User Modify User Delete User Modify Password Add Group Delete Group Refresh



7.5.3.5 Auto Maintenance

Here you can select auto reboot and auto delete old files interval from the dropdown list. See Figure 7-56.

Configuration	
Control Panel ULERY SYSTEM INFO VERSION VERSIO	Auto-Reboot System Every Tuesday Auto-Delete Old Files Customized Save Refresh

Figure 7-56

7.5.3.6 Snapshot

Snapshot interface is shown as in Figure 7-57.

Figure 7-57

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. The value ranges from 1f/s to 7f/s.
Resolution	You can select from the dropdown list. The 1-Channel 1 and the 9-channel support D1/HD1/BCIF/CIF/QCIF. Channel 2 to channel 8, channel 10 to channel 16 supports CIF/QCIF.
Quality	You can select from the dropdown list. Here is for you to set video quality. There are six options: 10%, 30%, 50%, 60%, 80%, 100%. 100% is the best quality.

7.5.3.7 Abnormity

The abnormity interface is shown as below. See Figure 7-58.

2 Control Panel		ADNO	RMALITY
	8	ADINUI	
QUERY SYSTEM INFO VERSION			
HDD INFO	-		
LOG	Event Type	No Disk 🗾 🔽	
+ TSYSTEM CONFIG			
- 🗞 ADVANCED			
HDD MANAGEMENT			
	Alarm Out	1 2 3 4 5	
- 🚞 ALARM I/O CONFIG	The manneda		
- Cord			
ACCOUNT	Latch	30 sec. 1~300	🔽 Alarm Upload
VIDEO MATRIX			1000 C
PREVIEW CONTROL			SMS
	🔽 Send Email	✓ Show Message	Buzzer
	1		
			Save Refresh

-				Example 1
-	ABNO	RMALITY		
Event Type Threshold	Disk No Space ▼ ▼ 5 0%~99%			
🔽 Alarm Out	1 2 3 4 5			
Latch	30 sec. 1~300	I Alarm Upload		
🔽 Send Email	🔽 Show Message	SMS	🔲 Buzzei	
8. 				
			Save	Refresh
	Threshold	Event Type Disk No Space V Threshold 5 0%~99% V Alarm Out 1 2 3 4 5 Latch 30 sec. 1~300	Threshold 5 0%~99% Image: Alarm Out 1 2 3 4 5 Latch 30 sec. 1~300 Image: Alarm Upload Image: SMS Image: SMS Image: SMS Image: SMS	Event Type Disk No Space V Threshold 5 0%*99% V Alarm Out 1 2 3 4 5 Latch 30 sec. 1*300 V Alarm Upload SMS V Send Email V Show Message Buzzer

Figure 7-58

Parameter	Function
Event Type	 The abnormal events include: disk error, no disk, disconnection, IP conflict, MAC conflict and etc You need to draw a circle to enable this function.
Normal Out	The corresponding alarm activation output channel when alarm occurs, There are six channels.

Parameter	Function
Latch	The alarm output can delay for the specified time after alarm stops. Then system disables alarm and corresponding activation output. The value ranges from 10s to 300s.
Send email	If you enable this function, system can send out email to alarm the specified user.
Alarm upload	System can upload the alarm signal to the network (includes the alarm centre.)
Show message	System pops up the alarm messages in the monitor interface.
Buzzer	Once you check the box here, the buzzer beeps when an alarm occurred.

7.5.3.8 Video Matrix

Here you can set tour channel and corresponding interval. See Figure 7-59.

Configuration	
Control Panel UERY SYSTEM INFO VERSION HDD INFO UCG	VIDEO MATRIX
LOG SYSTEM CONFIG ADVANCED HDD MANAGEMENT ABNORMALITY ALARM I/O CONFIG COUNT COUNT COUNT ACCOUNT ACCOUNT AUTO MAINTENANCE VIDEO MATRIX PREVIEW CONTROL ADDITIONAL FUNCTION	Check All 1-window 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
	Save Refresh

Please note current product supports the 1-window spot tour.

Figure 7-59

7.5.3.9 Preview Control

Here you can set preview mode and preview channel. The window mod includes:1/4/8/9/16/25window. See Figure 7-60.

Configuration	
Control Panel Control Panel Curry system INFO Curry system INFO Curry System ConvFig Curry System ConvFig Curry System ConvFig Curry System ConvFig Curry AdvAnceD Curry AdvAnceD Curry AdvAnceD Curry AdvAnceD Curry C	Preview Mode 19plit Preview Channel 01

Figure 7-60

7.5.4 Additional Function

7.5.4.1 Preferred DNS

Here you can set server or local operator DNS address. See Figure 7-61.

Configuration	
Control Panel Control Panel Query System Info VERSION	Preferred DNS 8 . 8 . 8 . 8 Akemate DNS 8 . 8 . 4 . 4
ADDTIONAL FUNCTION ADDTIONAL FUNCTION ADD CARD OVERLAY ADD Register Preferred DNS	Save Refresh

Figure 7-61

7.5.4.2 Card Overlay

Tit is the same with the card overlay function (chapter 5.5.9). It is mainly for financial areas to Sniffer, information parse and character overlay. The ATM/POS interface is shown as in Figure 7-62.

Source IP refers to host IP address that sends out information (usually it is the device host connected to the DVR.)

Destination IP refers to other systems that receive information.

There are total four groups IP. The record channel applies to one group (optional) only.

Six frame ID groups verification can guarantee information validity and legal.

The start position, length and data can be set according to your protocol and data packet. There are total four fields.

Configuration		×
Control Panel	Sniffer mode	COM
	Protocl	NONE
Contend	Setup	COM Setup
- AUTO MAINTENANCE - VIDEO MATRIX - PREVIEW CONTROL - ADDIIONAL FUNCTION	Overlay Channel	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
	Overlay Mode	🔽 Preview 🔽 Encode
WIFI CONFIG	Overlay	Bottom Left 💌
		Save

Figure 7-62

7.5.4.3 Mobile Config

The mobile setup interface is shown as in Figure 7-63.

Here you can activate or disconnect device 3G connection such as telephone or mobile phone, or the alarm activated message No.

Configuration				×
Control Panel	Message Sent	SMS Activate	Phone Activate Caller	
🚊 📝 QUERY SYSTEM INFO	Message Sent Add Delete Add Delete Receiver			
	Refresh			

Figure 7-63 Mobile Setup

7.5.4.4 WIFI Config

The WIFI interface is shown as in Figure 7-64.

Here you can view WIFI connection status. System displays as no connection if there is no connection. You can view connection status and IP address if there is a connection. See Figure 7-65.

Configuration						•	×
Control Panel 		Connect WIFI 🔽		FI CONFIG — e: Disconnect			
🕀 🧠 ADVANCED	SN 1	SSID 10539	VerifyType WPA2-PSK	Encryp type AES	63%		
CARD OVERLAY	2 3 4	xingjiaibn 14029 TR LIWK FOO10C	OPEN WEP OPEN	NONE NONE NONE	37% 26% 78%		
3G CONFIG MOBILE CONFIG	5 6	TP-LINK_52019C TP-LINK_076ACA kqy	OPEN WEP	NONE	23% 89%		
WIFI CONFIG	7 8	10388 10333	OPEN WPA2-PSK	NONE AES	52% 57%		
		'orking nt Hotspot Can n	ot connect				
	IP Ad						
		t Mask 1t Gateway					
	Deru			S	ave	Refresh	
					176	nett esit	

Figure 7-64 WIFI Setup

VIFI Connection	\mathbf{X}
WIFI Co	nnection
SSID	kqy
Connect Status	Disconnect
Connect Signal	89%
Encryption	NONE
Authentication	WEP
Connect password	*********
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Default Gateway	0.0.0.0
OK	Cancel

Figure 7-65

Parameter	Function
Refresh	Search hotspot again and system can automatically add the information such as password (If there is any record of the hotspot.)

WIFI working information	Here you can view current connection status. You can view connection status and IP address if there is a connection.
	Otherwise system shown as there is no hotspot connection.

7.6 Search

Click search button, you can see an interface is shown as in Figure 7-60.

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

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



Figure 7-66

Then please click search button, you can see the corresponding files in the list. See Figure 7-61.

×	X 0:00:00 1 2 3 4 Channel:1 16:30:00 R 17:30:00 R 18:00:00 R 19:00:00 R 19:30:00 R 20:00:00 R 20:00:00 R 20:00 R 20:00 R 19:00 10 19:00 10 19:00 10 19:00 10 10 10 10 10 10 10 10 10
×	<pre>21:30:00 R 22:00:00 R 22:00:00 R 23:30:00 R 23:30:00 R Speed: 0 KB/S Schebule: 0 %</pre>
8 9 10 11 12 13 14 15 15:30:53 8 9 10 11 12 13 14 15	Start Time: 23:30:00 End Time: 23:59:59 File Sire: 18570 K3 ✓ Download ✓ Load More ✓ Townload ✓ Load More ✓ Tossa ✓ 16 17 18 19 20 21 22 23 24 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ 16 17 18 19 20 21 22 23 24 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ 16 17 18 19 20 21 22 23 24 ✓ </th

Figure 7-67

Select the file(s) you want to download and then click download button, system pops up a dialogue box shown as in Figure 7-62, then you can specify file name and path to download the file(s) to your local pc.

Save As	? 🔀
Save in: 🞯 Desktop	
I My Computer My Documents My Network Places	
	5
File name:	Save
Save as type: dav Files(*.dav)	Cancel

Figure 7-68

Load more

It is for you to search record or picture. You can select record channel, record type and record time to download. See Figure 7-69.

Backup device Device ID Type BUS Left Space(GB) Total Sp Directory Search	Download	Set Bownloa	No.	Size(KB)	Begin Time	End Time	File type	C
Channel Type All Y All All Record: All All Record: Begin Time 12081 2012-06-18 15:30.00 212-6-18 15:30.52 9 18550 2012-06-18 19:30.00 2012-06-18 19:30.00 2012-6-19 15:30.52 9 19552 10 18:357 2012-06-18 19:30.00 2012-06-18 19:30.00 2012-06-18 19:30.00 2012-06-18 10:30.00 2012-06-18 10:30.00 2012-06-18 10:30.00 2012-06-18 10:30.00 2012-06-18 10:30.00 2012-06-18 10:30.00 2012-06-18 10:30.00 2012-06-18 10:30.00 2012-06-18 10:30.00 2012-06-18 10:30.00 00:12-06-18 20:30.00 Cemace(Main S 1 11 1855 2012-06-18 20:30.00 Cemace(Main S 1 12 18535 2012-06-18 <td< td=""><td>a 1</td><td>- 10 S</td><td>1</td><td>18504</td><td>2012-06-18 15:30:00</td><td>2012-06-18 16:00:00</td><td>Common (Main S</td><td>1</td></td<>	a 1	- 10 S	1	18504	2012-06-18 15:30:00	2012-06-18 16:00:00	Common (Main S	1
All ▼ All Records 4 10454 2012-06-18 17:30:00 2012-06-18 18:30:00 Comean (Main S 1 Begin Time 6 18508 2012-06-18 18:30:00 2012-06-18 19:30:00 Comean (Main S 1 2012-6-18 15:30:52 1 18477 2012-06-18 19:30:00 2012-06-18 19:30:00 Comean (Main S 1 2012-6-19 15:30:52 1 10 18557 2012-06-18 19:30:00 2012-06-18 20:30:00 Comean (Main S 1 2012-6-19 15:30:52 1 10 18557 2012-06-18 20:30:00 Comean (Main S 1 2012-6-19 15:30:52 1 10 18557 2012-06-18 20:30:00 Comean (Main S 1 11 19537 2012-06-18 20:30:00 2012-06-18 22:30:00 Comean (Main S 1 1 12 18555 2012-06-18 22:30:00 2012-06-18 22:30:00 Comean (Main S 1 1 13 18627 2012-06-18 22:30:00 2012-06-18 22:30:00 Comean (Main S 1 1 14 18635 2012-06-19 00:00:00 2012-06-19 00:00:00 Comean (Main S 1 1 15 18027 2012-06-19 00:00:00 2012-06-1								
All ▼ All Records 4 10454 2012-06-18 17:30:00 2012-06-18 18:30:00 Comean (Main S 1 Begin Time 6 18508 2012-06-18 18:30:00 2012-06-18 19:30:00 Comean (Main S 1 2012-6-18 15:30:52 1 18477 2012-06-18 19:30:00 2012-06-18 19:30:00 Comean (Main S 1 2012-6-19 15:30:52 1 10 18557 2012-06-18 19:30:00 2012-06-18 20:30:00 Comean (Main S 1 2012-6-19 15:30:52 1 10 18557 2012-06-18 20:30:00 Comean (Main S 1 2012-6-19 15:30:52 1 10 18557 2012-06-18 20:30:00 Comean (Main S 1 11 19537 2012-06-18 20:30:00 2012-06-18 22:30:00 Comean (Main S 1 1 12 18555 2012-06-18 22:30:00 2012-06-18 22:30:00 Comean (Main S 1 1 13 18627 2012-06-18 22:30:00 2012-06-18 22:30:00 Comean (Main S 1 1 14 18635 2012-06-19 00:00:00 2012-06-19 00:00:00 Comean (Main S 1 1 15 18027 2012-06-19 00:00:00 2012-06-1	Channel	Type	3	12081	2012-06-18 17:10:42	2012-06-18 17:30:00	Common (Main S	1
Begin Time 5 10949 2012-06-10 10 0.00 2012-06-10 19 0.00 Common Wain S 1 2012-6-18 15:30:52 7 194477 2012-06-10 19:00:00 2012-06-10 19:00:00 Common Wain S 1 2012-6-19 15:30:52 9 18527 2012-06-12 20:00:00 2012-06-16 20:00:00 Common Wain S 1 2012-6-19 15:30:52 11 18517 2012-06-12 20:00:00 2012-06-18 20:00:00 Common Wain S 1 2012-6-19 15:30:52 11 18517 2012-06-18 21:30:00 Common Wain S 1 13 18627 2012-06-18 22:30:00 Common Wain S 1 10 13 18627 2012-06-18 22:30:00 Common Wain S 1 11 14 18635 2012-06-19 22:30:00 Common Wain S 1 13 14 18647 2012-06-19 22:30:00 Common Wain S 1 13 16 15 18602 2012-06-19 00:00:00 2012-06-19 00:30:00 Common Wain S 1 14 14			4	18454	2012-06-18 17:30:00	2012-06-18 18:00:00	Common (Main S	1
Degin line 7 184477 2012-06-18 19:00:00 2012-06-18 20102-06-18 21000.00 2012-06-18 21000.00 2012-06-18 21000.00 2012-06-18 21000.00 2012-06-18 21000.00 2012-06-18 21000.00 Comment Wain S 1 11 18557 2012-06-18 21000.00 2012-06-18 21000.00 Comment Wain S 1 13 18627 2012-06-18 21000.00 2012-06-18 22000.00 Comment Wain S 1 13 18627 2012-06-18 2200.00 Comment Wain S 1 15 18602 2012-06-19 23300.00 Comment Wain S 1 15 18602 2012-06-19 03300.00 Comment Wain S 1 17 18444 2012-06-19 03300.00 Comment Wain S 1 17 18444 2012-06-19 03300.00 Comment Wain S 1 19 18333 2012-06-19	A11 💌	All Records	5	18549	2012-06-18 18:00:00	2012-06-18 18:30:00	Common (Main S	1
2012-6-18 15:30:52 File 13:30:62 File 13:30:62 File 14:379 Stream 70:20:20:61:30:00 20:20:61:30:00 20:20:61:30:00 20:20:61:30:00 20:20:61:30:00 Search 10:30:30:00 Download 17 File 10:30:30:00 File 10:44:33 Bownload 20:20:61:30:00 20:20:61:30:00 20:20:61:30:00 20:20:61:30:00 20:20:61:30:00 20:20:61:30:00 20:20:61:30:00 20:20:61:30:00 20:20:61:30:00 20:20:61:30:00 20:20:61:30:00 Common(Main S 1 15:30:60:20:20:20:30:00 20:20:61:30:00 20:20:61:30:00 Common(Main S 1 16:30:20:20:00:30:00 20:20:61:30:00 20:20:61:30:00 Common(Main S 1 17:30:40:20:20:00:30:00 20:20:61:30:00:00 20:20:61:30:00 Common	Deale Time		6	18508	2012-06-18 18:30:00	2012-06-18 19:00:00	Common (Main S	1
9 18527 2012-06-18 2012-06-18 2012-06-18 2012-06-18 2012-06-18 2102-06-18 22100-00 Comeon (Main S 1 1 15 15852 2012-06-18 22100-00 2012-06-18 22100-00 Comeon (Main S 1 1 15 15852 2012-06-18 22100-00 2012-06-19 231000 Comeon (Main S 1 1 15 15852 2012-06-19 231000 2012-06-19 231000 Comeon (Main S 1 1 15 15852 2012-06-19 010000 2012-06-19 010000 2012-06-19 010000 Comeon (Main S 1 1 16 16 16 2012-06-19 010000 2012-06-19 010000 2012-06-19 010000 2012-06-19 010000 2012-06-19 010000 2012-06-19 010000 2012-06-19 010000 2012-06-19 0100000 2012-06-19	begin lime			18477	2012-06-18 19:00:00	2012-06-18 19:30:00	Common (Main S	1
9 18527 2012-06-13 2012-06-13 2012-06-13 2012-06-13 2012-06-13 2102-06-13 2102-06-13 2102-06-13 2102-06-13 2102-06-13 2102-06-13 2102-06-13 2102-06-13 2102-06-13 2102-06-13 2102-06-13 2102-06-13 2102-06-13 2102-06-13 2102-06-13 2102-06-13 22012-06-13 22012-06-13 22012-06-13 22012-06-13 22012-06-13 22012-06-13 22012-06-13 22012-06-13 22012-06-13 22012-06-13 22012-06-13 22012-06-13 22012-06-13 22012-06-13 22012-06-13 22012-06-13 22012-06-13 22012-06-13 02012-06-19 02012-06-19 02012-06-19 02012-06-19 02012-06-19 02012-06-19 02012-06-19 02012-06-19 0100-00 Common (Main S 1 11 19 18379 2012-06-19 0100-00 2012-06-19 0100-00 Common (Main S 1 12 14 455 2012-06-19 0120-00-19 0210-00-19 0210-00-19 0210-00-19 0210-00-19 0210-00-19 0210-00-19 0210-00-19 0210-00-19 0210-00-19 0210-00-19 0210-00-19 0210-00-19 0210-00-19 0210-00-19 0210-00-19	2012- 6-18 -	15:30:52	8	18515	2012-06-18 19:30:00	2012-06-18 20:00:00	Common (Main S	1
11 15:30:52 11 15:30:52 10:30:52 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10 10:20:00:10			9	18527	2012-06-18 20:00:00	2012-06-18 20:30:00	Common (Main S	1
2012-6-19	End Time		10	18537	2012-06-18 20:30:00	2012-06-18 21:00:00	Common (Main S	1
13 19827 2012-06-19 22:00:00 2012-06-19 22:00:00 Comment Main S 1 14 19835 2012-06-19 22:00:00 2012-06-19 23:00:00 Comment Main S 1 15 19802 2012-06-19 23:00:00 2012-06-19 23:00:00 Comment Main S 1 15 19802 2012-06-19 23:00:00 2012-06-19 00:00:00 Comment Main S 1 17 19474 2012-06-19 00:00:00 2012-06-19 00:00:00 Comment Main S 1 18 19492 2012-06-19 00:00:00 2012-06-19 00:00:00 Comment Main S 1 19 18379 2012-06-19 01:00:00 2012-06-19 00:00:00 Comment Main S 1 19 18379 2012-06-19 01:00:00 2012-06-19 02:00:00 Comment Main S 1 21 425 2012-06-19 02:00:00 2012-06-19 03:00:00 Comment Main S 1 23 19499 2012-06-19 02:00:00 2012-06-19 03:00:00 Comment Main S 1 25 16493 2012-06-19 03:00:00 <t< td=""><td></td><td>1</td><td>11</td><td>18517</td><td>2012-06-18 21:00:00</td><td>2012-06-18 21:30:00</td><td>Common (Main S</td><td>1</td></t<>		1	11	18517	2012-06-18 21:00:00	2012-06-18 21:30:00	Common (Main S	1
Stream Type ManddStream ▼ 14 19335 2012-06-19 22:30:00 2012-06-18 23:30:00 Common (Main S 1 1 Search 16 19629 2012-06-19 23:30:00 2012-06-18 23:30:00 Common (Main S 1 1 Search 16 19629 2012-06-19 00:30:00 2012-06-19 00:30:00 Common (Main S 1 1 19 1944 2012-06-19 00:30:00 2012-06-19 00:30:00 Common (Main S 1 1 19 1949 2012-06-19 00:30:00 2012-06-19 00:30:00 Common (Main S 1 1 19 19393 2012-06-19 00:30:00 2012-06-19 00:30:00 Common (Main S 1 1 21 425 2012-06-19 00:30:00 2012-06-19 00:30:00 Common (Main S 1 1 23 16493 2012-06-19 00:30:00 2012-06-19 00:30:00 Common (Main S 1 1 23 16493 2012-06-19 00:30:00 2012-06-19 00:30:00 Common (Main S 1 1 25 16493	2012- 6-19 -	15:30:52	12	18535	2012-06-18 21:30:00	2012-06-18 22:00:00	Common (Main S	1
IS 19502 2012-06-18 23:00:00 2012-06-19 23:30:00 Comment Main S 1 Swarch 115 196902 2012-06-19 23:30:00 Comment Main S 1 17 19474 2012-06-19 00:00:00 2012-06-19 00:00:00 Comment Main S 1 18 1942 2012-06-19 00:00:00 2012-06-19 01:00:00 Comment Main S 1 19 18379 2012-06-19 01:00:00 2012-06-19 01:00:00 Comment Main S 1 19 18379 2012-06-19 01:00:00 2012-06-19 02:00:00 Comment Main S 1 21 425 2012-06-19 02:00:00 2012-06-19 02:00:00 Comment Main S 1 23 18499 2012-06-19 02:00:00 2012-06-19 03:00:00 Comment Main S 1 23 18499 2012-06-19 02:00:00 2012-06-19 03:00:00 Comment Main S 1 24 16493 2012-06-19 03:00:00 Comment Main S 1 1 25 16493 2012-06-19 03:00:00 Comment Main S 1 1 <t< td=""><td></td><td></td><td>13</td><td>18627</td><td>2012-06-18 22:00:00</td><td>2012-06-18 22:30:00</td><td>Common (Main S</td><td>1</td></t<>			13	18627	2012-06-18 22:00:00	2012-06-18 22:30:00	Common (Main S	1
Search 16 168292 2012-06-12 23:30:00 2012-06-19 00:30:00 Comment Main S 1 Search 18 18492 2012-06-19 00:30:00 2012-06-19 00:30:00 Comment Main S 1 Nornload 19 18393 2012-06-19 01:30:00 2012-06-19 01:30:00 Comment Main S 1 19 18393 2012-06-19 01:30:00 2012-06-19 01:30:00 Comment Main S 1 19 18393 2012-06-19 01:30:00 2012-06-19 01:30:00 Comment Main S 1 21 425 2012-06-19 01:30:00 2012-06-19 02:30:00 Comment Main S 1 22 425 2012-06-19 02:30:00 2012-06-19 03:30:00 Comment Main S 1 23 18493 2012-06-19 02:30:00 2012-06-19 03:30:00 Comment Main S 1 25 18493 2012-06-19 03:30:00 2012-06-19 03:30:00 Comment Main S 1 25 18493 2012-06-19 03:30:00 2012-06-19 03:30:00 Comment Main S 1 25 18	Stream Type	MandAStream 🔻	14	18635	2012-06-18 22:30:00	2012-06-18 23:00:00	Common (Main S	1
Swarch 17 19474 2012-06-19 00:00:00 2012-06-19 00:00:00 Comment Main S 1 Download 19 19379 2012-06-19 01:00:00 2012-06-19 01:00:00 Comment Main S 1 Download 19 18379 2012-06-19 01:00:00 2012-06-19 02:00:00 Comment Main S 1 Type Type Type 133:00 2012-06-19 02:00:00 Comment Main S 1 File DAV 21 425 2012-06-19 02:00:00 Comment Main S 1 23 18499 2012-06-19 02:00:00 Comment Main S 1 1 23 18499 2012-06-19 03:00:00 Comment Main S 1 1 24 25 16493 2012-06-19 03:00:00 Comment Main S 1 25 16493 2012-06-19 03:00:00 Comment Main S 1 25 16493 2012-06-19 03:00:00 Comment Main S 1 25 16493 2012-06-19 03:00:00 Comment Main	1997		15	18602	2012-06-18 23:00:00	2012-06-18 23:30:00	Common (Main S	1
Search 18 18492 2012-06-19 00:30:00 2012-06-19 01:30:00 Common (Main S 1 Download 19 18393 2012-06-19 01:30:00 2012-06-19 01:30:00 Common (Main S 1 19 183933 2012-06-19 01:30:00 2012-06-19 01:30:00 Common (Main S 1 20 183933 2012-06-19 01:30:00 2012-06-19 02:00:00 Common (Main S 1 21 425 2012-06-19 02:00:00 2012-06-19 02:00:00 Common (Main S 1 23 19499 2012-06-19 02:00:00 2012-06-19 03:00:00 Common (Main S 1 25 19493 2012-06-19 03:30:00 2012-06-19 03:30:00 Common (Main S 1 25 19493 2012-06-19 03:30:00 2012-06-19 03:30:00 Common (Main S 1 25 19493 2012-06-19 03:30:00 2012-06-19 04:00:00 Common (Main S 1 25 19493 2012-06-19 03:30:00 2012-06-19 <td></td> <td></td> <td>16</td> <td>18629</td> <td>2012-06-18 23:30:00</td> <td>2012-06-19 00:00:00</td> <td>Common (Main S</td> <td>1</td>			16	18629	2012-06-18 23:30:00	2012-06-19 00:00:00	Common (Main S	1
19 18379 2012-06-10 01:00:00 2012-06-10 01:00:00 Comeno(Main S 1 Type Type 18333 2012-06-10 01:30:00 Comeno(Main S 1 Type Type 124 425 2012-06-10 02:00:00 2012-06-10 02:00:00 Comeno(Main S 1 File DAV 21 425 2012-06-10 02:00:00 2012-06-10 02:30:00 Comeno(Main S 1 23 18499 2012-06-10 02:30:00 2012-06-10 03:30:00 Comeno(Main S 1 23 18499 2012-06-10 03:30:00 Comeno(Main S 1 1 23 18493 2012-06-10 03:30:00 Comeno(Main S 1 25 18493 2012-06-19 03:30:00 Comeno(Main S 1			17	18474	2012-06-19 00:00:00	2012-06-19 00:30:00	Common (Main S	1
Download 20 163933 2012-06-19 01/30:00 2012-06-19 02/00:00 Common (Main S 1 Type Type Type 1425 2012-06-19 02/00:00 2012-06-19 02/00:00 Common (Main S 1 File DAV Image: Common (Main S 1 1 22 17886 2012-06-19 02/00:00 2012-06-19 02/00:00 Common (Main S 1 Download Download Image: Common (Main S 1 1 22 18499 2012-06-19 02/00:00 Common (Main S 1 1 23 18499 2012-06-19 02/30:00 2012-06-19 03/30:00 Common (Main S 1 1 24 16483 2012-06-19 03/30:00 2012-06-19 03/30:00 Common (Main S 1 25 16493 2012-06-19 03/30:00 Common (Main S 1 1 25 16493 2012-06-19 03/30:00 Common (Main S 1 1 26 16493 2012-06-19 03/30:00 Common (Main S 1 1	Search		18	18492	2012-06-19 00:30:00	2012-06-19 01:00:00	Common (Main S	1
Type Type 21 425 2012-06-19 02:00:00 2012-06-19 02:00:00 Comment@ain S 1 File DAV Image: Second Sec			19	18379	2012-06-19 01:00:00	2012-06-19 01:30:00	Common (Main S	1
1992 1992 22 178866 2012-06-19 02:10:00 2012-06-19 03:00:00 Comment (Main S 1 File DAV 24 18493 2012-06-19 03:00:00 Comment (Main S 1 Download 25 18493 2012-06-19 03:00:00 Comment (Main S 1 25 18493 2012-06-19 03:00:00 2012-06-19 03:00:00 Comment (Main S 1 25 18493 2012-06-19 03:00:00 2012-06-19 04:00:00 Comment (Main S 1 25 18493 2012-06-19 03:30:00 2012-06-19 04:00:00 Comment (Main S 1 26 18493 2012-06-19 03:30:00 2012-06-19 04:00:00 Comment (Main S 1 27 18493 2012-06-19 03:30:00 2012-06-19 04:00:00 Comment (Main S 1 28 18493 2012-06-19 03:30:00 2012-06-19 04:00:00 Comment (Main S 1 29 19 19 19 123 M Go 1 Page 8 anote Backup Buist Bu	Download		20	18393	2012-06-19 01:30:00	2012-06-19 02:00:00	Common (Main S	1
22 17886 2012-06-19 02:10:00 2012-06-19 02:30:00 Comean@Main S 1 File DAV 1 18499 2012-06-19 02:30:00 Comean@Main S 1 Bownload 24 18492 2012-06-19 03:30:00 Comean@Main S 1 24 18493 2012-06-19 03:30:00 2012-06-19 03:30:00 Comean@Main S 1 25 18493 2012-06-19 03:30:00 2012-06-19 04:00:00 Comean@Main S 1 8enote Backup Bevice ID Type BUS Left Space@CB) Total Sp Directory	Tyne	Tyme		425	2012-06-19 02:00:00	2012-06-19 02:00:03		1
24 18482 2012-06-19 03:30:00 2012-06-19 03:30:00 Comment (Main S 1 Download 25 18493 2012-06-19 03:30:00 2012-06-19 04:00:00 Comment (Main S 1 Remote Backup Image: Comment (Main S 1 Image: Comment (Main S 1 Image: Comment (Main S 1 Remote Backup Image: Comment (Main S 1 Image: Comment (Main S 1 Image: Comment (Main S 1 Backup device Image: Comment (Main S 1 Image: Comment (Main S 1 Image: Comment (Main S 1 Backup device Image: Comment (Main S 1 Image: Comment (Main S 1 Image: Comment (Main S 1 Search Image: Comment (Main S 1 Image: Comment (Main S 1 Image: Comment (Main S 1			22	17886	2012-06-19 02:01:00	2012-06-19 02:30:00	Common (Main S	1
Download 25 16493 2012-08-19 03:30:00 2012-08-19 04:00:00 Common (Main S 1 Remote Backup I/23 I Go I Page Image: Common (Main S 1 Remote Backup Device ID Type BUS Left Space (MB) Total Sp Directory Search Image: Common (Main S 1	File 🔻	DAV		18499	2012-06-19 02:30:00	2012-06-19 03:00:00	Common (Main S	1
Remote Backup Backup device Ba				18482	2012-06-19 03:00:00	2012-06-19 03:30:00	Common (Main S	1
Remote Backup Backup device Search Device ID Type BUS Left Space(KB) Total Sp Directory		Download	25	18493	2012-06-19 03:30:00	2012-06-19 04:00:00	Common (Main S	1
Backup device Device ID Type BUS Left Space (GB) Total Sp Directory Search								
	Remote Backup- Backup device		Devi c	e ID 1	'ype BUS	Left Space(XB) To	otal Sp Directo	ry
Backup type		DAV	<					>
			Transie -					

Figure 7-69

In Figure 7-69, there is a remote back pane at the left bottom of the pane. It allows you to backup the record or picture to your local USB storage media via the Web remotely. Click the search button; you can view the available storage device. See Figure 7-69. Please select from the dropdown list and then begin the backup. Please refer to chapter 7.3.4 to set device download path.

Download	Set Downloa	No.	Size (KB)) Begin Tim	e	End Time		File type	C
earch	- 10	1	18504	2012-06-1	8 15:30:00	2012-06-18	16:00:00	Common (Main S	1
	-	2	6837	2012-06-1	8 16:00:00	2012-06-18			
hannel	Type	3	12081	2012-06-1	8 17:10:42	2012-06-18			
11 👻	All Records -	4	18454		8 17:30:00	2012-06-18			
	ALL Kecords	5	18549		8 18:00:00	2012-06-18			
gin Time		6	18508		8 18:30:00	2012-06-18			
Ban anna		7	18477		8 19:00:00	2012-06-18			
012- 6-18 -	15:30:52	8	18515		8 19:30:00	2012-06-18			
		9	18527		8 20:00:00	2012-06-18			
nd Time		10	18537		8 20:30:00	2012-06-18			
012- 6-19 👻	15:30:52	11	18517		8 21:00:00	2012-06-18			
15. 0-13 -	15:30:52 *	12	18535		8 21:30:00	2012-06-18			
	In the set	13	18627		8 22:00:00	2012-06-18			
ream Type	MandAStream 🔻	14	18635		8 22:30:00	2012-06-18			
		15	18602		8 23:00:00	2012-06-18			
		16	18629		8 23:30:00	2012-06-19			
		17	18474		9 00:00:00	2012-06-19			
Search		18	18492		9 00:30:00	2012-06-19			
		19	18379		9 01:00:00	2012-06-19		Common (Main S	
wnload		20	18393		9 01:30:00	2012-06-19			
pe	Туре	21	425		9 02:00:00	2012-06-19			
		22	17886		9 02:01:00	2012-06-19			
ime 💌	DAV 💌	23	18499		9 02:30:00	2012-06-19			
		24	18482		9 03:00:00	2012-06-19			
annel	Download	25	18493	2012-06-1	9 03:30:00	2012-06-19	04:00:00	Common (Main S	1
•	Stream Type				M	1	/23 🕨	Go Go F	age [
egin Time	Main Stream 💌								
012- 6-18 👻	15:30:52								
nd Time									
012- 6-19 👻	15:30:52								
	· ·								
emote Backup		Devic	e ID	Туре	BUS	Left Spa	ce (KB) T	otal Sp Direc	orv
ackup device	sde5 (USB 🔻		JSB DISK)	DISK	USB	7455744		817728 /nfs	
Search	1-200 (000	sues (NOD DIOK)	DIGK	000	1400144	'	51.720 JHIS	
	DAV	<							
ackup type	DAY T	Access in the							

Figure 7-70

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.

7.7 Alarm

Click alarm function, you can see an interface is shown as in Figure 7-71. Here you can set device alarm type and alarm sound setup.

larm					X			
Event Type Video Loss External Alarm Motion Detect Disk Full Disk Error Video Mask		Alarm	Dperation Listen Alarm Video Pop-up Prompt Alarm Sound Sound Pop-up Sound Path Clear					
Time	Device ID	Event	Туре	Alarm Port/Channel				

Figure 7-71

Please refer to the following sheet for detailed information.

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 disk is full.
	Disk error	System alarms when disk 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.

7.8 About

Click about button, you can view current web client information. See Figure 7-72

About						
	Webrec Control,	Version: 2.1.7.56				
	NETSDK,	Version: 3.3.8.5983				
	PLAYSDK,	Version: 3.32.0.5442				
Copyright (C) 2011						

Figure 7-72

7.9 Log out

Click log out button, system goes back to log in interface. See Figure 7-73. You need to input user name and password to login again.

WEB SERVICE - Windows internet Explorer	
Be Edit Verw Fignantes Jook Helb	AT
🔇 East. + 🚫 - 🖹 🖉 🏠 🔎 Search 👷 Favorites 🔗 🍰 🤯 - 🧾 🛱	
Address 🕘 http://20.2.3.245/	✓ ● 60 経接 ³⁰

Figure 7-73

7.10 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.*