

Standalone DVR User's Manual

PRX-MG04x

PRX-MG08x

PRX-MG16x

Table of Contents

1	FEATURES AND SPECIFICATIONS	10
1.1	Features	
1.2	Specifications	
2	OVERVIEW AND CONTROLS	
2.1	Front Panel	14
2.2	Rear Panel	16
2.2 2.2	2.1 Overview 2.2 Connection Sample	16 16
2.3	Remote Control	17
2.4	Mouse Control	
2.5	Virtual Keyboard & Front Panel	20
2.5	5.1 Virtual Keyboard	
2.5	5.2 Front Panel	
3	INSTALLATION AND CONNECTIONS	
3.1	Check Unpacked DVR	21
3.2	HDD Installation	21
3.2	2.1 Choose HDDs	21
3.2	2.2 Calculate HDD Size	21
3.2	2.3 HDD Installation	
3.3	CD/DVD Burner Installation	

3.4	Desktop and Rack Mounting	
3.4.	1 Desktop Mounting	23
3.4.2	2 Rack Mounting	23
3.5	Connecting Power Supply	23
3.6	Connecting Video Input and Output Devices	23
3.6.	1 Connecting Video Input	23
3.6.2	2 Connecting Video Output	24
3.7	Connecting Audio Input & Output, Bidirectional Audio, Looping Video, Matrix	24
3.7.	1 Audio Input/One Audio Output	25
3.7.2	2 Looping video	25
3.7.3	3 Matrix Video Output	
3.7.4	4 Alarm Input and Relay Output	
3.7.	5 Alarm Input	
3.7.	6 Alarm Output	27
3.7.7	7 Alarm Input and Output Details	
3.7.8	3 Relay Output Description	
3.8	RS232	29
3.9	RS485	
3.10	Other Interfaces	
4 C	OVERVIEW OF NAVIGATION AND CONTROLS	31
4.1	Login, Logout & Main Menu	
4.1.	1 Login	
4.1.	2 Main Menu	
4.1.3	3 Logout	
4.1.4	Auto Resume after Power Failure	
4.1.	5 Replace Button Battery	
4.2	Recording Operation	
4.2.	1 Live Viewing	
4.2.2	2 Manual record	33

4.3	Search & Playback	
4.3.	1 Search Menu	
4.3.2	2 Basic Operation	
4.3.3	3 Calendar	
4.4	Record Setup (Schedule)	
4.4.1	1 Schedule Menu	
4.4.2	2 Basic Operation	
4.5	Detect	
4.5.1	I Go to Detect Menu	
4.5.2	2 Motion Detect	
4.5.3	3 Video Loss	
4.5.4	4 Camera Masking	
4.6	Alarm Setup and Alarm Activation	
4.6.	1 Go to alarm setup interface	
4.6.2	2 Alarm setup	
4.7	Backup	47
4.7.	1 Detect Device	
4.7.	1 Backup	
4.8	PTZ Control and Color Setup	
481	Cable Connection	49
4.8.2	2 PTZ Setup	
4.8.3	3 3D Intelligent Positioning Key	
49	Preset/ Patrol/Pattern/Scan	51
		
4.9.	1Preset Setup	
4.9.2	2 Activate Preset	
4.9.	A Activate Patrol (tour)	
4.9.4 1 0 1	5 Pattern Setun	
4.9.	6 Activate Pattern Function	
4.9	7 Auto Scan Setup	54
4.9.8	8 Activate Auto Scan	

5	UN	DERSTANDING OF MENU OPERATIONS AND CONTROLS	; 55
5.1	Μ	enu Tree	55
5.2	Μ	ain Menu	55
5.3	S	etting	56
5	.3.1	General	
5	.3.2	Encode	
5	.3.3	Schedule	60
5	.3.4	RS232	60
5	.3.5	Network	61
5	.3.6	Alarm	68
5	.3.7	Detect	68
5	.3.8	Pan/Tilt/Zoom	68
5	.3.9	Display	69
5	.3.10	Default	71
5.4	S	earch	72
5.5	A	dvanced	72
5	.5.1	HDD Management	72
5	.5.2	Abnormity	73
5	.5.3	Alarm Output	74
5	.5.4	Manual Record	74
5	.5.5	Account	74
5	.5.6	Auto Maintain	75
5	.5.7	TV Adjust	
5	.5.8	Video Matrix (For MGxxH Series only)	76
5.6	In	formation	
_			
5	.6.1	HDD Information	
5	.6.2	BPS	
5	.6.3	Log	
5	.6.4	Version	
5	.6.5	Online Users	
5.7	E	kit	83

6 ABOUT AUXILIARY MENU				
6.1	Go to Pan/Tilt/Zoom Menu			
6.1	.1 3D Intelligent Positioning Key			
6.2	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	2.5 Pattern Setup			
6.2	Activate Pattern Function			
6.2	.7 Border Setup			
6.2	Activate Border Function			
7.1 7.2 7.2 7.2	Network Connection Login .1 Real-time Monitor .2 PTZ	90 		
7.2	.3 Color	97		
7.2	.4 Picture Path and Record Path	97		
7.2	.5 Menu Interface Switch	98		
7.3	Configure			
7.3	5.1 System Information			
7.3	2.2 Setting			
7.4	Search			
7.4	.1 Download			
7.5	Alarm			
7.6	About			

7.7	Log out	124
7.8	Un-install Web Control	124
8	ENTERPRISE PROFESSIONAL SURVEILLANCE SYSTEM	25
8.1	Log in	125
8.2	Enable Monitor	126
8.3	Add New Device	127
9	RS232 OPERATION 1	29
9.1	Network Connection	129
9.2	Keyboard	129
10	FAQ1	30
APF	PENDIX A HDD CAPACITY CALCULATION 1	35
APF	PENDIX B COMPATIBLE USB DRIVE LIST 1	36
APF	ENDIX C COMPATIBLE CD/DVD BURNER LIST 1	37
APF	ENDIX D COMPATIBLE SATA HDD LIST1	38

Welcome

Thank you for purchasing our DVR!

This operating 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 local electrical safety codes. We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

2. Transportation security

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

3 . Installation

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

4 . Qualified engineers needed

All the examination and repair work should be done by the qualified service engineers.

We are not liable for any problems caused by unauthorized modifications or attempted repair.

5 . Environment

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

6. Accessories

Be sure to use all the accessories recommended by manufacturer. Before installation, please open the package and check all the components listed below are included:

- One power cable
- One Ethernet cable
- Four HDD cables
- Alarm & relay terminal blocks
- Extensional cable(for audio, loop & matrix)
- One remote control(including the battery)
- One USB mouse
- One CD(including DVR manual, client & small tools)
- Warranty card
- A package of installation fittings

Contact your local retailer ASAP if something is missing in your package.

Note: Any changes of this manual made to the actual product are subject to no further notification.

1 FEATURES AND SPECIFICATIONS

1.1 Features

This series DVR has the following features:

- H.264 compression algorithm ideal for standalone DVR
- Real-time live display up to 16 cameras, 400/480 fps recording for CIF, 2CIF& 200/240 fps recording for 4CIF
- Pentaplex function: live, recording, playback, backup & remote access
- Dual encoding streams support, flexible for network transmission
- Intelligent search and playback support, you can play back the video only motion detection occurs in the area you selected.
- 8 HDDs supported & CD-RW/DVD-RW supported
- Multiple control methods: front panel, IR remote control, keyboard, USB mouse and network keyboard.
- Smart video detection: motion detection, camera masking, video loss.
- Smart camera settings: privacy masking, camera lock, color setting, and title display
- Pan Tilt Zoom and Speed Dome Control: more than 60 protocols supported, preset, scan, auto pan, auto tour, pattern, auxiliary function supported. And with our Speed Dome, 3D intelligent positioning function supported.
- Easy backup methods: USB devices, CD-RW/DVD-RW & network download
- Alarm triggering screen tips, buzzer, PTZ preset, e-mail, FTP upload.
- Smart HDDs Management: non-working HDD hibernation, HDD faulty alarm, Raid function.
- Powerful network software: built-in web server, EPSS. Networking access for remote live viewing, recording, playback, setting, system status, event log, e-mail & ftp function.
- •

1.2 Specifications

Model

PRX-MG04H/MG08H/M	G16H 4/8/16 channel loop matrix and audio/video model
PRX-MG16J	16 channel loop and matrix combined model
System	
Main Processor	High performance embedded microprocessor
Operating System	Embedded LINUX
System Resources	Pentaplex function: live, recording, playback, backup &
	Temole access
User Interface	GUI, on-screen menu tips.
Control Device	Front panel, USB mouse, keyboard, IR remote control, network keyboard,.
Input Method	Numeral/Character/Denotation
System Status	HDD status, data stream statistics, log record, bios version, on-line user and etc.

Video

Video Input	4/8/16 Channe	el, BNC, 1.0Vp-p, 75	Ω , looping(optional),
Video Output	2-channel TV matrix output(output BNC, 1.0Vp- optional)	p, 75Ω,1 VGA output,
Video Standards	PAL (625Line	e,50f/s),NTSC(525Line,60f/s)
Video Compression Video Resolution	H.264 Format D1(4CIF) 2CIF CIF QCIF	NTSC 704 * 480 704 *240 352* 240 176*120	PAL 704 * 576 704 * 288 352*288 176*144
Video Recording	D1/2CIF/CIF/C	QCIF: PAL 1f/s-25f/s	NTSC 1f/s-30f/s;
Video Display Split Tour Display Image Quality Privacy Masking	Full and multip Support 1~6 level (leve Self-defined fo	ble screen display, 1 I 6 is the best) ur-sided zone for pri	/ 4 / 8 / 9 / 16 vacy masking for each
Camera Lock Camera Adjustment Video Information	Camera locked for users Adjust color according to different time periods Camera title, time, video loss, camera lock, motion detection, recording		
TV Output Adjustment	Adjust TV out	put color & display z	one
Audio Input bidirectional Audio Input Audio Output Audio Compression Video Detection & Alarn	4/8/16 chann 1-channel, R 1-channel, R ADPCM	el, BNC, 200-2800m CA, 200-2800mV, 30 CA, 200-3000mv, 5l	V, 30KΩ)KΩ <Ω
Motion Detection	Zones: PAL zones Sensitivity: 1 Trigger reco FTP	396 (22*18)/NTSC 3 ~6 (level 6 is highes rding, PTZ moveme	330(22*15) detection st) nt, tour, alarm, e-mail &
Video Loss	Trigger reco	ording, PTZ moveme	ent, tour, alarm, e-mail &
Camera masking	Trigger reco	ording, PTZ moveme	ent, tour, alarm, e-mail
Alarm Input	4/8/16 chan open/closed Trigger reco FTP	nel, programmable, d rding, PTZ moveme	ground, manual nt, tour, alarm, e-mail &
Relay output	6-channel, 3	BOVDC, 1A, NO/NC,	form-C,

8 SATA ports, 8 HDDs supported.
Audio : 14.4MB/H Video : 56~700MB/H
Hard disk hibernation technology, HDD faulty alarm &
Manual, continuous, video detection (including motion detection, camera masking, video loss), Alarm
Manual >Alarm >Video Detection >Continuous.
1 to 120 minutes (default: 60 minutes)
Support
Support
Time/Date, Alarm, Motion Detection & exact search (accurate to second)
2-channel playback simultaneously, Play, pause, stop, rewind, fast play, slow play, next file, previous file, next camera, previous camera, full screen, repeat, shuffle, backup selection.
Selected zone can zoom into full screen during
Flash stick/ USB HDD/ USB CD-RW/DVD-RW/ built- in SATA Burner/ network download
RJ-45 Port (10/100M)
TCP/IP, DHCP, DDNS, PPPoE, E-mail, FTP
Monitor, PTZ control, playback, system setting, file download, log information
2 USB 2.0 ports, 1 for mouse control, 1 for backup. Keyboard, PC communication PTZ control
220V 50Hz / 110V 60Hz
25W/30W/40W
0°C~ + 55°C
25W/30W/40W 10%~90% 86kpa~106kpa 2U, 440mmx460mmx89mm (W*D*H) 7.0KG Desktop or rack

Note: Comparisons

Model	Audio Input	Loop Output	Matrix Output	Bidirectional Talk Input
PRX-MG04H	4 channel	4 channel	1 channel	1 channel
PRX-MG08H	4 channel	8 channel	1 channel	1 channel
PRX-MG16H	4 channel	16 channel	1 channel	1 channel
PRX-MG16L	N/A	16 channel	4 channel	N/A

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



Figure	2-1

S/N	Name	Icon	Function
1	Channel indication light		When DVR is recording this lamp turns on. Power button, press this button for three seconds to shut down DVR.
	Standby indication light		When DVR is standing by, this lamp turns on.
2	Remote control signal receiver		To receive signals from remote control
	Function indication light		
			In preview interface(no other menu), press this button for three seconds, can switch between TV/VGA output(HD1 series DVR has three modesLTV/VGA/60Hz LCD)
	Shift	←	In textbox, click this button to switch between numeral, English(Small/Capitalized),donation, Chinese and etc.
3			Open/close tour
	numeral keys 0-9	0-9	Input password, switch channel and input numeral.
	Input numeral more than10	-/	When you need to input numeral more than 9. You can follow the steps below: click the first key number and then the next. For example, input 123, click numeral 1 and then 2 and click 3(continuous y).

	Slow play	Þ	Multiple slow play speeds or normal playback		
	Fast play	**	Various fast speeds and normal playback.		
	Play previous	↓	In playback mode, playback the previous video In menu setup, go to upper ward of the dropdown list.		
4	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	▶	Reverse playback or paused mode, click this button to realize normal playback In normal playback click this button to pause playback In pause mode, click this button to resume playback		
			In real-time monitor mode, click this button to enter video search menu		
	Up/down	▲、▼	Activate current control, modify setup, increase/decrease numeral, assistant function such as PTZ menu.		
	Left/right	∢ 、►	shift current activated control, When playback, click these buttons to control playback bar.		
	Cancel	ESC	Close upper interface or controls.		
		ENTER	confirm operation		
	Enter		Go to default button		
			Go to main menu		
	Record	•	Manually stop/start recording, working with direction keys or numeral keys.		
5	Window switch	MULT	Switch between one-window and multiple-window display modes.		
		Fn	One-window monitor mode, click this button to display assistant function: PTZ control and image color. In PTZ menu, shift PTZ control menu.		
	Assistant		Backspace function: in numeral control or text control, it can delete the previous character before the cursor.		
			In motion detection setup, working with Fn and direction keys to realize setup.		
			In HDD information menu, switch between HDD record time or other information(Menu prompt)		
			Realize other special functions		

6	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 version.)	
	Power button POWER		Power button, press this button for three seconds to shut down DVR.	
7	Power indication light		Power indication light	

Note:

Turn shuttle (outer ring) clockwise stands for right, counter clockwise stands for left. Turn jog (Inner dial) clockwise stands for down, counter clockwise stands for up.

2.2 Rear Panel

2.2.1 Overview

Please refer to Figure 2- for real panel information.



Figure 2-2

2.2.2 Connection Sample

Here is a connection sample for your reference. See Figure 2-.



Figure 2-3

2.3 Remote Control

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



Serial Number 1 2 3 4 5 6 7 8 9 10 11 12 12	Function remote switch Multiple-window switch 0-9 number key Record Auxiliary key Confirm /menu key Cancel Direction key forward Previous Back Next
12	Next Slow play
14	Stop
15	Fast play
16	Play/Pause

2.4 Mouse Control

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

	In input box, you can select input methods. Left click the corresponding				
	button on the panel you can input numeral/English character				
	(small/capitalized). Here \leftarrow stands for backspace button stands for space				
	button.				
	In English input mode: _stands for input a backspace icon and \leftarrow stands for				
	deleting the previous character.				
	A B C D E F G H I J K L M N O P Q R S T ⊔ U V W X Y Z ← U V W X Y Z ←				
	In numeral input mode: $_$ stands for clear and \leftarrow stands for deleting the previous numeral.				
	When input special sign, you can click corresponding numeral in the front panel to input. For example, click numeral 1 you can input"/", or you can click the numeral in the on-screen keyboard directly.				
	1 / 2 : 3 . 4 ? 5 - 6 _ 7 @ 8 # 9 % 0 & _ ←				
Double left	Implement special control operation such as double click one item in the file				
click mouse	list to playback the video.				
	In multiple-window mode, double left click one channel to view in full-window.				
	Double left click current video again to go back to previous multiple-window				
	mode.				
Right click	In real-time monitor mode, pops up shortcut menu: one-window, four-window, nine-window and sixteen-window, Pan/Tilt/Zoom, color setting, search,				
mouse	record, alarm input, alarm output, main menu. Among which, Pan/Tilt/Zoom and color setting applies for current selected				
	channel.				
	corresponding channel.				
	View 1 View 4 View 9 View 16 Pan/Tilt/Zoom Color Setting				
	Search Record Alarm Output Alarm Input Main Menu				
	Exit current menu without saving the modification.				

r		
Press	In numeral input box: Increase or decrease numeral value.	
middle	Switch the items in the check box.	
button	Page up or page down	
Move	Select current control or move control	
mouse		
Drag mouse	Select motion detection zone	
	Select privacy mask zone.	

2.5 Virtual Keyboard & Front Panel

2.5.1 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.

2.5.2 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 shipping agency, please check whether there is any visible damage to the DVR appearance. The protective materials used for the package of the DVR can protect most accidental clashes during transportation. Then you can open the box to check the accessories.

Please check the items in accordance with the list on the warranty card. Finally you can remove the protective film of the DVR.

3.2 HDD Installation

3.2.1 Choose HDDs

We recommend Seagate HDD of 7200rpm or higher.

3.2.2 Calculate HDD Size

This series have no limit to HDD capacity. You can use 120G-750G HDD to guarantee higher stability.

The formula of total HDD size is:

Total Capacity (MB) = Camera Amount * Recording Hours * HDD Usage Per Hour (M/h)

H.264 compression is ideal for standalone DVRs. It can save more than 30% HDD capacity than MPEG4. When you calculate the total HD capacity, you should estimate the average HDD capacity per hour for each channel.

For example, for a 4-ch DVR, the average capacity of HDD usage per hour per channel is 200M/h. Now if you hope the DVR can record the video 12 hours each day for 30 days, the total capacity of HDDs needed is: 4 channels * 30 days * 12 hours * 200 M/h = 288G. So you need to install one 300G HDD or 2 160G HDDs.

3.2.3 HDD Installation

Data ribbons, fastening screws and smart HDD shelf design are already provided in the accessories.

Please follow the instructions below to install hard disk.





1. Loosen the screws of the upper cover.

2. Remove the HDD bracket from internal unit.



3. Dismantle the upper HDD bracket.



4. Install the HDD. Note the HDD is placed upside down. Please make sure bracket is in correct position.

If the HDD amount is less than four, you do not need to install the HDD bracket.





- 5. Screw the two bracket parts together.
- 6. Put HDD bracket back and then fix firmly.



7. Loosen the power cable.



8. Connect to the SATA ports and then connect power cord to the HDDs.



9. Place the upper cover back and screw firmly.

After HDD installation, please check connection of data ribbon and power cord.

3.3 CD/DVD Burner Installation

For built-in burner, you can dismantle front plate to install CD burner. This built-in burner should be set as MASTER.

For USB burners, you need to install USB series burner.

This series DVR is compatible with various burner brands popular in today's market. You can consult our local technical support or visit our website for more information.

3.4 Desktop and Rack Mounting

3.4.1 Desktop Mounting

To prevent surface damage, please make sure that the rubber feet are securely installed on the four corners of the bottom of the unit.

Position the unit to allow for cable and power cord clearance at the rear of the unit. Be sure that the air flow around the unit is not obstructed.

3.4.2 Rack Mounting

The DVR occupies two rack units of vertical rack space.

The hardware necessary to mount the DVR into a rack is supplied with the unit. Rear doors may be used only on rack columns that are more than 26 inches (66.0 cm) deep.

Install the cabinet in ventilated place. Avoid extreme heat, humid or dusty conditions. You can use a soft dry brush to clean opening outlet, cooling fan and etc regularly.

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 DVR automatically detects the video standard (PAL or NTSC) whenever you connect a video input. It accepts both color and black-and-white and analog video. NOTE:

- Enabling line lock on cameras may cause video distortion. There may be noise in the camera's power source. If video from one or more cameras is distorted, we recommend you disable line lock on the camera as your first troubleshooting step.
- If a video distribution amplifier is installed between the video source and the DVR, do not set the output video level above 1 Vp-p.

To connect each video input:

1. Connect a coaxial cable to the camera or other analog video source.

2. Connect the coaxial cable to the video in connector on the rear panel.

Please refer to Figure 3-1 for more information.

NOTE:

You need to use a BNC installation tool to connect coaxial cables to the rear panel.



Figure 3-1

3.6.2 Connecting Video Output

This section provides information about physically connecting video display devices to the DVR. See Figure 3-2.

If you connect the DVR with a TV monitor or VGA monitor, the DVR can automatically detects the monitor type. And without any output device, by default, the DVR is configured to use a TV monitor. In this case, if your application requires a VGA monitor, you have to press the button "FN" or Shift on the front panel.

NOTE:

Video output 1 and VGA can't display at the same time. But Video output 2 can display properly with Video Output 1 or VGA.



Figure 3-2

3.7 Connecting Audio Input & Output, Bidirectional Audio, Looping

Video, Matrix

For the 25-pin or 37-pin interface, different models include different functions. For example, PRX-MG16H has 4 audio inputs, 1 audio output, I bidirectional audio input. See Figure 3-3.



Figure 3-3

3.7.1 Audio Input/One Audio Output

PRX-MG16H has 16 looping video inputs, 1 matrix video outputs, 4 audio inputs, I bidirectional audio input, 1 audio output.

Audio input, bidirectional audio input and audio output

The DVR encodes audio and video signals simultaneously, which lets you control audio at the monitored location.

To set up audio:

1. Make sure your audio input device matches the RCA input level. If the device and RCA input levels do not match, audio distortion problems may occur.

2. Make sure the audio connector is wired as follows:

3. Connect a line input device or pre-amplified microphone to the audio connector for the video channel on the rear panel.

Please refer to Figure 3-4.



Figure 3-4

3.7.2 Looping video

The DVR supports looping video. It passes the video input to a monitor or other analog video device.

To use looping video:

1. Connect a coaxial cable to the video out connector on 37-pin interface

Please note you need to use a BNC installation tool to connect coaxial cables to the rear panel.

2. Connect the other end of the coaxial cable to the analog device.

3.7.3 Matrix Video Output

Use video matrix output connector during installation to display video sequentially from each video input. The unit displays each channel for selected seconds. You can use this feature to verify camera installation.

To display video from each connected video source:

1. Connect a video monitor to the video matrix output connector.

2. Turn the DVR on, the monitor, and each video matrix output source.

3. Verify the video from each source and troubleshoot as necessary.

Please refer to Figure 3-5.



Figure 3-5

3.7.4 Alarm Input and Relay Output

The DVR offers 16 alarm inputs for external signaling devices, such as door contacts or motion detectors. Each alarm input can be either normally open or normally closed. Once configured, an alarm input can invoke many different activities, including triggering a relay device, sending an alert to a security office or storing pre-alarm video to the DVR.

3.7.5 Alarm Input

You should check your alarm input mode is grounding alarm input or not.

For this series DVR, grounding signal is needed for alarm input.

If you need to connect two units or one DVR and other device, please use relay to separate them.

Please refer to Figure 3-6 for more information.



Figure 3-6

3.7.6 Alarm Output

Do not connect alarm output port directly with high power load (no more than 1 A) in case of heavy current.

You can use the co-contactor to realize the connection between the alarm output port and the load.

Please refer to Figure 3-7 for more information.



Figure 3-7

3.7.7 Alarm Input and Output Details

You can refer to the following sheet and Figure 3-8 for alarm input and output information.

Parameter	Grounding Alarm
Ground	Ground line
Alarm Input	1, 2,, 16
Relay Output	1,2,3,4: NO and C(Normally Open and Com)
	5: NO,C and NC(Normally Open, Com, Normally Closed)
	6: Ctrl 12V(This is used for reset the senor)
485 A、B	485 communication port. They are used to control devices

	such as PTZ.
+12 (C)	This should input an external power input.

- 4/8/16-ch grounding alarm inputs. (Normal open or Normal close type)
- Please parallel connect COM end and GND end of the alarm detector (Provide external power to the alarm detector).
- Please parallel connect the Ground of the DVR and the ground of the alarm detector.
- Please connect the NC port of the alarm sensor to the DVR alarm input(ALARM)
- If you need to reset the touched-off alarm remotely, you can use DVR to supply controllable 12 V power to the alarm detector such as the smoke detector.
- Use the same ground with that of DVR if you use external power to the alarm device.



Figure 3-8

3.7.8 Relay Output Description

- 6 ways relay alarm output. Provide external power to external alarm device.
- To avoid over loading, please read the following relay parameters sheet carefully. (See below table)
- The controllable +12v can be used to restore the smoke detector.

Please refer to Figure 3-9 for alarm input module information.



Figure 3-9

Please refer to Figure 3-10 for alarm output module information.



Figure 3-10

R	elay	Specificatio	n

Model:	JRC-27F	
Material of the touch	Silver	
Rating	Rated switch capacity	30VDC 2A, 125VAC 1A
(resistance	Maximum switch power	125VA 160W
load)	Maximum switch voltage	250VAC, 220VDC
	Maximum switch currency	1A
Insulation	between touches with same polarity	1000VAC 1minute 50/60Hz
	between touches with different polarity	1000VAC 1minute 50/60Hz
	between touch and winding	1000VAC 1minute 50/60Hz
Surge voltage	between touches with same polarity	1500V (10×160us)
Length of open time	3ms max	
Length of close time	3ms max	
Longevity	Mechanical	50×106 times (3Hz)
	Electrical	200×103 times (0.5Hz)
Temperature	-40 ~+70	

3.8 RS232

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

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

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

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

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

3.9 RS485

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

3.10 Other Interfaces

There are still other interfaces on the DVR, such as USB ports. You can refer to the Figure 3-11 for more information.



Figure 3-11

4 Overview of Navigation and Controls

Before operation, please make sure you have properly installed HDDs and all the cable connections.

4.1 Login, Logout & Main Menu

4.1.1 Login

When the system boots up, default video display is in multiple-window mode. Click Enter or left click mouse, you can see the login interface. See Figure 4-1. System consists of four accounts:

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

For your system security, please modify you password after first login.

You can use USB mouse, front panel, remote controller or keyboard to input.

About input method: Click **123** to switch between numeral, English character

(small/capitalized) and denotation.

Note:

Three times login failure in 30 minutes will result in system alarm and five times login failure will result in account lock!



Figure 4-1

4.1.2 Main Menu

After you logged in, the system main menu is shown as below. See Figure 4-2. There are total six icons: search, information, setting, backup, advanced and shutdown.

You can move the cursor to highlight the icon, and then double click mouse to enter the sub-menu.



Figure 4-2

4.1.3 Logout

There are two ways for you to log out.

One is from menu option:

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

(2).50	011011		
Logou	ut menu user		
Password	l is needed to	o re-enter the	menu
after logo	ut.		
	ОК)	Cancel)
		10 m	

Figure 4-3

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





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.

4.2 Recording Operation

4.2.1 Live Viewing

When you login, 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	6	Recording status	3	~	Video loss
2		Motion detection	4		Camera lock

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

switch function, 🙆 stands for closing switch function.

4.2.2 Manual record

Note:

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

4.2.2.1 Manual record menu

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

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

Manual record menu is shown as in Figure 4-5.

4.2.2.2 Basic operation

There are three statuses: schedule/manual/stop. 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.





4.2.2.3 Enable/disable record

Please check current channel status: " \bigcirc " means it is not in recording status,

" \bullet " means it is in recording status.

You can use mouse or direction key to highlight channel number. See Figure 4-6.



Figure 4-6

4.2.2.4 Enable all channel recording

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

• All channel schedule record

Please highlight "ALL" after "Schedule". See Figure 4-7.

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

The corresponding indication light in front panel will turn on.



Figure 4-7

• All channel manual record

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

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

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





4.2.2.5 Stop all channel recording

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

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

			M,	AN	UAI	R	EC	OR	D								×
Record Mode	All		2	3	4		6		8	9	10	11	12	13	14	15	16
Schedule																	
Manual																	
Stop		•	۲	۲	۰	۲	0	۲	۲	۲	۲	۲	۰	۰	0	۲	•
		ОК							(Car	nce						

Figure 4-9

4.3 Search & Playback

4.3.1 Search Menu

There are two ways for you to go to search menu.

- Click Pause/Play button in the remote control.
- Click search in the main menu.

Search interface is shown as below. See Figure 4-10.

Usually there are three file types:

- R: regular recording file.
- A: external alarm recording file.
- M: motion detection recording file
- C: card and pos test overlay recording file(For some special series only)

There are several playback windows. System supports 1/2-ch playback.



Figure 4-10

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

Please refer to the following sheet for more information.

These series DVRs support 2-channel simultaneous playback.

4.3.2 Basic Operation

4.3.2.1 Playback

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

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

4.3.2.2 Accurate playback

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

4.3.2.3 Synchronized playback function when playback

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

4.3.2.4 Digital zoom

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

4.3.2.5 File backup

System supports backup operation during search. You can draw a $\sqrt{}$ before file name (multiple choices). Then click backup button (Button 14 in Figure 4-10). 4.3.2.6 Slow playback and fast playback

Button	Illustration	Remarks
Fast play button ₩	In playback mode, click this button to switch between various fast play modes such as fast play 1,fast play 2 and more.(Fast play 1 means fast play level 1 or not about speed)	Frame rate may vary due to different versions.

Please refer to the following sheet for slow play and fast playback function.
Slow play button ► (Or you can turn the outer ring counter clockwise.)	In playback mode, click this button to switch between various slow play modes such as slow play 1 or slow play 2.	
3、Play/Pause ⊪	In slow playback mode, click this button to switch between play/pause modes.	
4、Previous/next	In playback mode, you can click ◀ and ▶₁ to view previous or next video in current channel.	

4.3.2.7 Fast forward/fast backward and frame by frame playback

Special Functions of Shuttle and Jog	Illustration	Remarks
Fast forward(outer ring clockwise)	When playback, turn the shuttle (outer ring) clockwise one round: you can view in fast level 1 Turn it two rounds you get fast level 2. You can continue turning to get different speed.	In forward or backward mode, double click Pause/Play button to get normal playback.
Fast backward(outer ring counter clockwise)	When playback, turn the shuttle (outer ring) counter clock-wise one round, you can view in backward level 1. Turn it two rounds, you get backward level 2. You can continue turning to get different speed.	Frame rate may vary due to different version.
Manual playback frame by frame	In playback mode, click play/pause button, slowly turn the jog (inner dial) clock-wise to view frame by frame, counter clock wise to view I frame playback.	

4.3.2.8 Backward playback and frame by frame playback

Button	Illustration	Remarks
Backward play II in playback interface.	In normal playback mode, left click backward play button, system begins backward playback. Double click backward play button again, system goes to pause mode.	When system is in backward play or frame by frame playback mode, you can click play button to go to
Manual playback frame by frame.	Click pause button in normal playback mode, slowly turn the jog (inner dial) clock-wise to view frame by frame, counter clock wise to view I frame playback.	normal playback.

Note:

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

4.3.3 Calendar

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

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

In Figure 4-11, there are video files in March 13th and 14th. Double click the date to view file list.

	2007-06-26					
(<)	June	Э	-	2007		$(\mathbf{>})$
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30



4.4 Record Setup (Schedule)

When the system boots 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 4-12.

There are three record types: R-Regular, MD-Motion detection, A- Alarm.

6		SCH	IEDULE				\times
Channel	1 Pre	eRecord 4]sec.Re	edundan	cy <mark></mark> Snap	oshot	
Week Day	Wed 🔻	Record Ty	pe Re	egular N	1D AI	arm	
Period 1	00:00	-08 :00) [
Period 2	08 :00	-10 :00) () (
Period 3	10 :00	-12 :00) C) [)	
Period 4	12 :00	-20 :00	<u> </u>) [
Period 5	20 :00	-24 :00) C) C)	
Period 6	00:00	-24 :00	<u> </u>) (
	Regular	MD		📕 Alarm	า		
0 3	6	9	12	15	18	21	24
Copy	Paste		fault		ave) (Canc	
Coby						Caric	

Figure 4-12

4.4.2 Basic Operation

There are total six periods. See Figure 4-12.

- Channel: Please select the channel number first. You can select "all" if you want to set for the whole channels.
- Week day: There are eight options: ranges from Saturday to Sunday and all.
- Redundancy: System supports redundancy backup function. 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)
- Snapshoot: You can enable this function to snapshoot image when alarm occurs.
- Record types: There are three types: regular, motion detection (MD) and Alarm.

Please highlight icon **I** to select the corresponding function. After 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 stands for regular recording, yellow stands for motion detection and red stands for alarm recording.

4.4.1.1 Quick Setup

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

4.4.1.2 Redundancy

Redundancy function allows you to memorize record file in several disks. These files are created, packaged and closed simultaneously. 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 4-12.

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

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

Note

About redundancy setup:

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

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

	HDD MANAGEMENT X
SATA	1 2 3 4 5 6 7 8 Alarm Set O O O O Alarm Release
HDD No.	1 Set to Read/Write Execute
Type Status Capacity Record time	Read/WriteRead onlyNormalRedundant79.99 GBFormat00-00-00 00:00:00 / 00-00Recover
	ОК



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 4-13.System needs to reboot to get setup activated. Now you can search or playback file in redundant disk.
- Dismantle the disk and play it in another PC.

4.5 Detect

4.5.1 Go to Detect Menu

In the main menu, from Setting to Detect, you can see motion detect interface. See Figure 4-14. There are three detection types: motion detection, video loss, camera masking.

4.5.2 Motion Detect

Detection menu is shown as below. See Figure 4-14.

- Channel: select the channel you want to implement motion detection.
- 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 4-15. Here you can set motion detection zone. There are 396(PAL)/330(NTSC) small zones.
- 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.
- 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 4-16.
- Period: Click set button, you can see an interface is shown as in Figure 4-17. Here you can set for business day and non-business day. In Figure 4-17, click set button, you can see an interface is shown as in Figure 4-18. Here you can set your own setup for business day and non-business day.
- Anti-dither: Here you can set anti-dither time.
- Sensitivity: there are six levels. The sixth level has the highest sensitivity.
- Alarm output: when alarm occurred, system enables peripheral alarm devices.
- Tour: Here you can enable tour function when alarm occurs. It is a one-window tour. Please go to chapter 5.3.9 Display for tour interval setup.
- Snapshot: System can snapshoot when alarm occurs.

Please highlight icon \square 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 4-15, you can left click mouse and then drag it to set a region for motion detection. Click Fn to switch between arm/withdraw motion detection. After setting, click enter button to exit.

	DET	ECT	
Event Type	Motion Detect	Channel	1
Enable			
Region	Select	Sensitivity	3 🗸
Period	Set	Anti-dither	0 sec.
Alarm Out	123450	Eatch	10 sec.
Show Messag	je (Send Em	ail
📃 Record Chanı	nel 12345(1000870	11213141516
PTZ Activatior	ר Select	Delay	10 sec.
Tour	123450	0789101	11213141516
Snapshot	123450	9789101	11213141516
Сору	Paste Defau	ult S	ave Cancel

Figure 4-14



Figure 4-15

B		PTZ Activation		X
CAM 1	None 🔻	0 CAM 2	None 🔻 🕻	
CAM 3	None 🔻	0 CAM 4	None 🔽	
CAM 5	None 🔻	0 CAM 6	None 🔻 🕻	
CAM 7	None 🔻	0 CAM 8	None 🔻 🕻	
CAM 9	None 🔻	0 CAM 10	None 🔻 🕻	
CAM 11	None 🔻	0 CAM 12	None 🔻 🕻	
CAM 13	None 🔻	0 CAM 14	None 🔻 🕻	
CAM 15	None 🔻	0 CAM 16	None 🔻 🕻	
	ОК	Cancel	D	

Figure 4-16

B	Set	\times
Work Da	ay 🔻 Set	
00 :00	-24 :00 00 :00 -24 :00	
00 : 00	-24 :00 00 :00 -24 :00	
00 :00	-24 :00 00 :00 -24 :00	
Sup	0 <u>369121518212</u> 4	
Mon		
Wed		
Thu Fri		
Sat	0 3 6 9 12 15 18 21 24	
Сору	Paste Default OK Cance	

Figure 4-17

B			Se	et			X
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Work Day	•	•	•	•	•		
Free Day						•	•
		Save		C	ancel		

Figure 4-18

4.5.3 Video Loss

In Figure 4-14, select video loss from the type list. You can see the interface is shown as in Figure 4-19. This function allows you to be informed when video loss phenomenon occurred. You can enable alarm output channel and then enable show message function.

- Channel: select the channel you want to enable lens shading alarm.
- Event type: please select video loss.
- Channel: select the channel to record when video loss occurred.
- Alarm output: activate peripheral alarm device when video loss occurred.
- Latch: when motion detection complete, system auto delays detecting for a specified time. The value ranges from 10-300(Unit: second)
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this 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 4-16.
- Period: Click set button, you can see an interface is shown as in Figure 4-17. Here you can set for business day and non-business day. In Figure 4-17, click set button, you can see an interface is shown as in Figure 4-18. Here you can set your own setup for business day and non-business day.
- Sensitivity: there are six levels. The sixth level has the highest sensitivity.
- Alarm output: when alarm occurred, system enables peripheral alarm devices.
- Tour; Here you can enable tour function when alarm occurs. It is a one-window tour. Please go to chapter 5.3.9 Display for tour interval setup.
- Snapshot: System can snapshoot when alarm occurs.

	DETECT	\times
Event Type	Video Loss 🔻 Channel 1	•
Enable		
Period	(Set)	
Alarm Out	10 sec.	
Show Message	Send Email	
Record Channel	12345678910111213141516	
PTZ Activation	Select Delay 10 sec.	
Tour	12345678910111213141516	
Snapshot	12345678910111213141516	
Сору Р	aste Default Save Cancel	

Figure 4-19

4.5.4 Camera Masking

When someone viciously masks lens, the system can alert you to guarantee video continuity. Camera masking interface is shown as in Figure 4-20.

- Channel: select the channel you want to enable camera mask detection function.
- Event type: please select camera mask detect from the dropdown list.
- Channel: select the channel to record when camera mask occurred.
- Alarm output: activate peripheral alarm device when camera mask occurred.
- Enable tour: Here is for you to activate tour between different cameras.
- Latch: when motion detection complete, system auto delays detecting for a specified time. The value ranges from 10-300(Unit: second)
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this 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 4-16.
- Period: Click set button, you can see an interface is shown as in Figure 4-17. Here you can set for business day and non-business day. In Figure 4-17, click set button, you can see an interface is shown as in Figure 4-18. Here you can set your own setup for business day and non-business day.
- Sensitivity: there are six levels. The six-level has the highest sensitivity.
- Alarm output: when alarm occurred, system enables peripheral alarm devices.
- Tour: Here you can enable tour function when alarm occurs. It is a one-window tour: Please go to chapter 5.3.9 Display for tour interval setup.
- Snapshoot: System can snapshoot when alarm occurs.

Note:

In this 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.

	DETECT	<
Event Type	Camera Maski 🔹 Channel 🛛 🚺	
Enable		
Period	(Set)	
Alarm Out	123456 Latch 10 sec.	
Show Message	Send Email	
Record Channel	12345678910111213141516	
PTZ Activation	Select Delay 10 sec.	
Tour	1234567891011213141516	
Snapshot	12345678910111213141516	
Сору Р	aste Default Save Cancel	D

Figure 4-20

4.6 Alarm Setup and Alarm Activation

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

4.6.1 Go to alarm setup interface

In the main menu, from Setting to Alarm, you can see alarm setup interface. See Figure 4-21.

4.6.2 Alarm setup

Alarm interface is shown as below. See Figure 4-21.

- 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: 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 4-25.
- Period: Click set button, you can see an interface is shown as in Figure 4-23. Here you can set for business day and non-business day. In Figure 4-26, click set button, you can see an interface is shown as in Figure 4-27. Here you can set your own setup for business day and non-business day.
- Anti-dither: Here you can set anti-dither time.
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
- 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). At the same time you need to set alarm record in schedule interface (Main Menu->Setting->Schedule) and select schedule record in manual record interface (Main Menu->Advance->Manual Record).

- Latch: Here is for you to set proper delay duration. Value ranges from 10 to 300 seconds. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
- Tour: Here you can enable tour function when alarm occurs. It is a one-window tour: Please go to chapter 5.3.9 Display for tour interval setup.
- Snapshot: System can snapshoot when alarm occurs.

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

	ALAF	RM	
Event Type	Local Alarm 🔻	Alarm In	1
Enable		Туре	Normal Open 🔻
Period	Set	Anti-dither	0 sec.
Alarm Out	123456	Latch	10 sec.
Show Message		Send Email	
Record Channel	123456	07891011	1213141516
PTZ Activation	Select	Delay	10 sec.
Tour	123456	07891011	1213141516
Snapshot	123456	07891011	1213141516
Сору Р	aste Defaul	t Sav	/e Cancel

Figure 4-21

B		PTZ Activation		×
CAM 1	None	0 CAM 2	None	- 0
CAM 3	None	0 CAM 4	None	• 0
CAM 5	None	0 CAM 6	None	- 0
CAM 7	None	0 CAM 8	None	- 0
CAM 9	None -	0 CAM 10	None	- 0
CAM 11	None	0 CAM 12	None	- 0
CAM 13	None	0 CAM 14	None	- 0
CAM 15	None	0 CAM 16	None	- 0
	ОК	Cancel	\supset	

Figure 4-22

B	Set	×
Work Day	▼ Set -24 :00 00 :00 -24 :00	
00 :00	-24 :00 00 :00 -24 :00	
Sun 0 Mon Tue Wed 7 Thu Fri Sat 0	3 6 9 12 15 18 21 24 3 6 9 12 15 18 21 24 3 6 9 12 15 18 21 24	
Сору	Paste Default OK Canc	el

Figure 4-23

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

Figure 4-24

4.7 Backup

DVR support various backup devices such as CD-RW,DVD driver, USB backup and network download. Here we introduce USB backup first. You can refer to Chapter 7 Web Client Operation for network download backup operation.

4.7.1 Detect Device

Click backup button, you can see an interface is shown as in Figure 4-25. Here is for you to view devices information.



Figure 4-25

4.7.1 Backup

Select backup device and then 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 4-26.

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.





Click backup button, system begins burning. At the same time, the backup button becomes stop button. You can view the remaining time and process bar at the left bottom. See Figure 4-27.



Figure 4-27

Tips:

During backup process, you can click ESC to exit current interface; but the system will not terminate backup process.

Note:

When you click stop button during the burning process, there are two conditions for different devices:

- For CD/DVD burner device, the stop function becomes activated immediately and there is no data in the burner.
- For USB device, system can backup the data before you click stop button. For example, if there is a file of 10 minutes, when you click stop after five minutes backup, system only save the previous 5-minute data in the device.

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).You can visit our website to view listed CD-ROM type.

4.8 PTZ Control and Color Setup

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

4.8.1 Cable Connection

Please follow the procedures below to go on cable connection

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

4.8.2 PTZ Setup

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

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

Boot up the DVR, input user name and password.

In the main menu, click setting, and then click Pan/Tilt Control button. The interface is shown as in Figure 4-28. Here you can set the following items:

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

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

Figure 4-28

After 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 4-29.





Click Pan/Tilt/Zoom, the interface is shown as below. See Figure 4-30. Here you can set the following items:

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

Click icon and with to adjust zoom, focus and iris.



Figure 4-30

In Figure 4-30, please click direction arrows (See Figure 4-31) to adjust PTZ position. There are total 8 direction arrows.



Figure 4-31

4.8.3 3D Intelligent Positioning Key

In the middle of the eight direction arrows, there is a 3D intelligent positioning key. See Figure 4-32.

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



Figure 4-32

Here is a sheet for you reference.

Name	Function	function	Shortcut key	Function key	function	Shortcut Key
Zoom		Near	► Itel	I	Far	>
Focus	0	Near	•	@	Far	►
Iris		close	◀	(Open	► II

4.9 Preset/ Patrol/Pattern/Scan

In Figure 4-30, click the "set" button. The interface is shown as below. See Figure 4-33.

Here you can set the following items:

- Preset
- Tour
- Pattern
- Border





In Figure 4-30, click page switch button, the interface is shown as in Figure 4-34. Here you can activate the following functions:

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

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

Figure 4-34

Note: The following setups are usually operated in the Figure 4-30, Figure 4-33 and Figure 4-34 .

4.9.1Preset Setup

In Figure 4-30, use eight direction arrows to adjust camera to the proper position. In Figure 4-33, click preset button and input preset number. The interface is shown as in Figure 4-35.

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 4-35

4.9.2 Activate Preset

In Figure 4-34, please input preset number in the No. blank, and click preset button.

4.9.3 Patrol setup (Tour Setup)

In Figure 4-33, click patrol button. The interface is shown as in Figure 4-36.Input preset number and add this preset to a patrol (tour). For each patrol (tour), you can input max 80 presets.

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

Figure 4-36

4.9.4 Activate Patrol (tour)

In Figure 4-33, input patrol (tour) number in the No. blank and click patrol button

4.9.5 Pattern Setup

In Figure 4-33, click pattern button and then click "begin" button. The interface is shown as in Figure 4-37. Then you can go to Figure 4-30 to modify zoom, focus, and iris.

Go back to Figure 4-37 and click "end" button. You can memorize all these operations as pattern 1.



Figure 4-37

4.9.6 Activate Pattern Function

In Figure 4-34, input mode value in the No. blank, and click pattern button.

4.9.7 Auto Scan Setup

In Figure 4-33, click border button. The interface is shown as in Figure 4-28. Please go to Figure 4-30, use direction arrows to select camera left limit Then please go to Figure 4-38 and click left limit button Repeat the above procedures to set right limit.

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

Figure 4-38

4.9.8 Activate Auto Scan

In Figure 4-34, click "Auto Scan" button, the system begins auto scan.

Correspondingly, the auto scan button becomes to stop button. Click stop button to terminate scan operation.

4.10 Flip

In Figure 4-34, click page switch button, you can see an interface is shown as below. See Figure 4-39. Here you can set auxiliary function.

Click page switch button again, system goes back to Figure 4-30.



Figure 4-39

5 Understanding of Menu Operations and Controls

5.1 Menu Tree

This series DVR menu tree is shown as below.



5.2 Main Menu

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



Figure 5-1

5.3 Setting

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



Figure 5-2

5.3.1 General

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

- System time: here is for you to set system time
- Date format: there are three types: YYYY-MM-DD: MM-DD-YYYYY or DD-MM-YYYY.
- Date separator: there are three denotations to separate date: dot, beeline and solidus.
- Snapshoot: Here you can set image upload interval. (This function applies to some series only).
- 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.
- Pack duration: Here is for you to specify record duration. Default value is 60 minutes.
- DVR No: when you are using one remote control 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.

Note:

Since system time is very important, do not modify time casually unless there is a must!

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

	G	ENER	RAL	_		×
System Time	2008 - 05 - 05	14:	20:29		Save)
Date Format	YYYY MM DD	3	Snapshot	2	2)s	ec.
Date Separator		2	DST (Set		
Time Format	24-HOUR					
Language	ENGLISH					
HDD Full	Overwrite	Ĩ				
Pack Duration	60	min.				
DVR No.	8	1				
Video Standard	PAL	Ĩ				
Auto Logout	10	min.				
Default			C	Save	Ca	ncel

Figure 5-3

	DST	×
Day of We	ek O Date	
Start: Jun	▼ 1st ▼ Sat ▼ 00 : 00	
End: Sep	▼ 1st ▼ Sun ▼ 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.
- Compression: system supports H.264. Or you can select from the dropdown list.
- Resolution: System supports various resolutions, you can select from the dropdown list. For this model, we can support D1/CIF.
- Bit rate: 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.
- Frame rate: there are six levels: 1 f/s,2f/s,3f/s, 6f/s,12f/s,25f/s. (Some series DVRs only support PAL 25f/s)
- Video/audio: you can enable or disable the video/audio respectively for the main stream and extra stream.
- 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 window blanking section. You can drag you mouse to set proper section size.
- Preview/monitor: privacy mask has two types. 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 playabck.
- ♦ Channel display: You can select system displays channel number or not when you playback.
- Snapshoot: Click snapshoot button, you can see an interface is shown as in Figure 5-8.(This function applies to some series only)
- ♦ Mode: There are two types: one is timing and the other is activation (trigger).
- ♦ Image size: D1/HD1/BCIF/CIF.
- ♦ Image quality: level1 to level 6.
- ♦ Snapshoot frequency: Here you can set the snapshoot frequency. The value ranges from 1s/p to 7s/p.

System default setup is:

- Channel:1
- Compression:H.264
- Resolution: CIF/D1

- Bit rate: CBR
- Quality: 4
- Frame rate: 25f/s

Please highlight icon **I** to select the corresponding function.

		EN	CODE
Channel	[1	•	
Compression	H.264	-	Extra Stream1 💌
Resolution	CIF	-	
Bit Rate Type	CBR	-	CBR
Bit Rate(Kb/S)	512 🔻		512 -
Frame Rate	25	-	
Max Bit Rate	480-760Kb/S		256-512Kb/S
Audio/Video			
	OVERLAY		
	SNAPSHOT		
Сору	Paste	Defa	ault Save Cancel

Figure 5-6

	OVERLAY	×
Cover-Area	Preview Monitor	Set
Time Display	🔲 Monitor 🦳	Set
Channel Display	🔲 Monitor 🦳	Set
C	OK Cancel	



	SNAPSHOT	X
Mode	Timing	_
Image Size	D1	
Image Quality	4	
Snapshot Frequency	1 SP2L	
OK Cancel		
Snapshot Frequency	1 SP2L	

Figure 5-8

For RG-S series, it supports various settings for channel, resolution and frame: Resolution: pixel

PAL: QCIF=176x144; CIF=352x288; HD1=352x576; 2CIF=704x288; D1=704x576;

NTSC: QCIF=176×120; CIF=352×240; HD1=352×480; 2CIF=704×288;

D1=704x480;

We take 16-channel DVR as an example. There are four groups: 1~4, 5~8, 9~12, 13~16.

Please refer to the formula: resolution \times frame rate

The resources for one group are: PAL: D1×50 or NTSC: D1×60

D1x50(60)F/s=Half-D1x100(120)F/s=CIFx200(240)F/s

You can arrange channel parameter within the specified limit.

Please refer to the following list:

Channel re	sources			Max frame	Note
А	В	С	D	PAL (NTSC)	
D1	D1	D1	D1	25(30)F/s	1 D1 real-time, 3
25(30)F/s	12(15)F/s	6(7)F/s	6(7)F/s		D1 non-real time
D1	D1	D1	D1	12(15)F/s	4 D1non-real tim
12(15)F/s	12(15)F/s	12(15)F/s	12(15)F/s		
D1	HD1	CIF	CIF	25(30)F/s	1 D1,1 HD1,2 CI
25(30)F/s	25(30)F/s	25(30)F/s	25(30)F/s		real-time
HD1	HD1	HD1	HD1	25(30)F/s	4 HD1 real-time
25(30)F/s	25(30)F/s	25(30)F/s	25(30)F/s		
CIF	CIF	CIF	CIF	25(30)F/s	4 CIF real-time
25(30)F/s	25(30)F/s	25(30)F/s	25(30)F/s		
					Other setup

Note:

- $A \in B \in C$ D is the four channels in one group.
- The totally whole resources are limited. When you wan to enhance resource in one channel you need to reduce resource for other channel.
- The system will pop up setup failure interface if the resource setup is beyond the limit.

In the above list, × means there is no video in current channel. You can highlight "video" button to activate video function.

Dual encoding streams: this series support dual encoding streams. Main stream is for local recording, and the extra stream can be used for network transmission. And they don't affect each other.

So for local recording you can use main stream. And for network transmission, you can select main stream or extra stream.

5.3.3 Schedule

Please refer to chapter 4.4 schedule.

5.3.4 RS232

RS232 interface is shown as below. Here are five items. See Figure 5-9.

- Function: There are various devices for you to select. Console is for serial port or min-end platform to upgrade program. Keyboard is for you to use special keyboard to control current device.
- Baud rate: You can select proper baud rate.
- Data bit: You can select proper data bit.
- Stop bit: There are three values: 1/1.5/2.

• Parity: there are three choices: none/odd/even.

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

9	RS232 ×
Function	Console
Baudrate	115200 -
Data Bits	8 7
Stop Bits	
Parity	None
Default	Save Cancel

Figure 5-9

5.3.5 Network

Here is for you to input network information. See Figure 5-10.

- IP address: Here you can input IP address.
- DHCP: It is auto search IP function. 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 o. 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. (System server port 37778 is reserved for network UDP use.)
- UDP port: Default value is 37778.
- HTTP port: Default value is 80.
- Max connection: system support maximal 10 users. 0 means there is no connection limit.
- Transfer mode: Here you can select the priority between fluency/video qualities.
- Network download: System can process the downloaded data first if you enable this function.

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

đ	NETWORK
IP Address	192 · 168 · 1 · 108 DHCP
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 1 . 1
TCP Port	1 HTTP Port 1
UDP Port	0 Max Connection 0
	Transfer Mode Fluency
	Network Download
ADVANCED	SETTING
🗌 🗆 IP FILTER	Trusted Sites:0
🗌 NTP	0.0.0.0 : 10
MULTICA:	ST 239.255.42.42
	username
Default	Save Cancel

Figure 5-10

5.3.5.1 Advanced Setup

Advanced setup interface is shown as in Figure 5-11. Please draw a circle to enable corresponding function and then double click current item to go to setup interface.

ADVANCED SETTIN	IG	
	Trusted Sites:0	
	239.255.42.42	
	username	



5.3.5.2 IP Filter

IP filter interface is shown as in Figure 5-12. 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.

B		IP	FILTE	R		<
Resti	ricted T	уре Ті	rusted (Sites 🔻		
0	. 0	. 0	. 0	A	dd IP	
De	lete IP) (Dele	ete all li	2	-	
		OK		Cancel		

Figure 5-12

5.3.5.3 Multiple Cast Setup

Multiple-cast setup interface is shown as in Figure 5-13.

	MCAST SET X
IP Address	0.0.0.0
Port	36666
	OK Cancel



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

IP multiple cast group address

-224.0.0.0-239.255.255.255

-"D" address space

• The higher four-bit of the first byte="1110"

Reserved local multiple cast group address

-224.0.0.0-224.0.0.255

-TTL=1 When sending out telegraph

-For example

224.0.0.1 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.

5.3.5.4 PPPoE

PPPoE interface is shown as in Figure 5-14.

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

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

Figure 5-14

5.3.5.5 NTP Setup

You need to install SNTP server (Such as Absolute Time Server) in your PC first. In Windows XP OS, you can use command "net start w32time" to boot up NTP service. NTP setup interface is shown as in Figure 5-15.

- Host IP: Input your PC address.
- Port: This series DVR supports TCP transmission only. Port default value is 123.
- Update interval: minimum value is 15(Unit: minute)
- Time zone: select your corresponding time zone here.

Here is a sheet for your time zone setup.

City /Region Name	Time Zone
London	GMT+0
Berlin	GMT+1
Cairo	GMT+2
Moscow	GMT+3
New Deli	GMT+5
Bangkok	GMT+7
Beijing (Hong Kong)	GMT+8
Tokyo	GMT+9
Sydney	GMT+10
Hawaii	GMT-10
Alaska	GMT-9
Pacific Time(P.T)	GMT-8

American Mountain Time(M.T)	GMT-7
American Central Time(C.T)	GMT-6
American Eastern Time(E.T)	GMT-5
Atlantic Time	GMT-4
Brazil	GMT-3
Middle Atlantic Time	GMT-2

	NTP			
HostlP	0.0.0.0			
Port	1024			
TimeZone	12 -			
Update Period	10 min.			
OK Cancel				

Figure 5-15

5.3.5.6 Email Setup

Email setup interface is shown as in Figure 5-16. Here you can set email server information.

Note:

You need to get the email address from your email service provider first. Please use semicolon to separate the addresses.

	E-mail X
IP Address	0.0.0.0
Port	25
User Name	Name
Password	•••
Sender	dvr@163.com
Title	DVREmail
Receiver	
Effective Time	00:00 -24:00
	00:00 -24:00
	OK Cancel

Figure 5-16

5.3.5.7 DDNS Setup

DDNS setup interface is shown as in Figure 5-17.

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, input your PPPoE name you get from you IPS and server IP (PC with DDNS). Click save button and then reboot system.

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

After rebooting, open IE and input as below:

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

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

Now you can open DDNSServer web search page.

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

Figure 5-17

5.3.5.8 Alarm Server

You can set alarm in accordance with different alarm protocols. System can inform the alarm server when alarm occurs. See Figure 5-18.

	ALARM SERVER X
Protocol Type	Private
Server IP	10 . 1 . 0 . 2
Port	0
	OK Cancel

Figure 5-18

5.3.5.9 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 5-19.

l 🗙 🛤 🖍 🗈 🖻 🕹 🖪 🖻	0
Serv-U Servers Serv-U Servers Settings Activity Domains Part Phonghy Settings Activity Settings Activity Settings S	* State General Dir Access IP Access If UL/DL Rati Path Access Group Files: Path Access Group PADVR RWADLERI Vite Vapend Vapend Vapend Vape
	Apply O Bestore

Figure 5-19

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 5-20.

Interne	t Explorer		×
?	To log on to th	nis FTP server, type a user name and password.	
×	FTP server: User name: Password:	10.10.7.7	
	After you log	on, you can add this server to your Favorites and return to it easily.	

Figure 5-20

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

In Figure 5-10, select FTP and then double click mouse. You can see the following interface. See Figure 5-21.

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

Figure 5-21

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

Now FTP can upload alarm video and motion detection video. Please note, when you are using this function, please make sure current upload channel is in motion detection or alarm record status and there is video available. Here you can input FTP server address, port and etc.

67

	FTP SE	TTING	-	×.	Servill Administrator • e	< Local Server >>
ENABLE					EX 1 2 2 1 4	1 Ø Å 1
OST IP	10 1 0	A PORT	37777		· II Sould Savet	
IR NAME	DVR		and a set of the		E S c(Local Senario	
SER NAME	ZHY	PASSWORD			A Server	Nene (951.04
LE LENGTH	5 M	INTERVAL	5	MIN	- B 12107	Dynam P adding [01.1.4
HANNEL	1	WEEK	Tue	-	Cl intro.	Dunar toe (Store IN te
		MOTION A	LARM		O Um O Um	Security (Regular FTP orb, no SSL/TLS sectors
RICO 1	00:00 -08:00					TTP got nuclei [3077
RICO 2	18:00 00:00					1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
						🔮 Domain is offine
						Au Coman Grâne
Conv 1	Paste Default	Save	Ca	ncel		North Series



- File length: 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.
- Period 1 and period 2: you can set two periods for one each channel.

System file name is shown as in Figure 5-23.



Figure 5-23

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 5-24.

- 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 completing 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.

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

Figure 5-24

5.3.9 Display

Display setup interface is shown as below. See Figure 5-25.

- 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. 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.
- Overlay information: System displays some information in the screen for your reference.
- Display mode: you can select from the dropdown list: self-adaptive/VGA/TV.
- Enable tour: activate tour function.
- Interval: Input proper interval value here. The value ranges from 5-200 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.

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

Please highlight icon \blacksquare to select the corresponding function.

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

	DISPLAY			
GUI				
Transparency	255	Channel Name	Modify	
Time Display		Channel Display		
Overlay Info				
Display Mode	Self-adaptive 🔻			
Enable Tour	0	Interval	5 sec.	
View 1	123456	7 8 9 10 11 12	13 14 15 16	
View 4	1234			
View 8	123456	78910112	13 14 15 16	
View 9	12			
View 16	1			
Motion Tour Type	View 1 🔹	Alarm Tour Type	View 1 🔹	
Default		Save	e Cancel	

Figure 5-25

In Figure 5-25, click modify button after channel. You can see an interface is shown as in Figure 5-26. Please note all your modification here applies to local end only. You need to refresh web or client-end to get the latest channel name. System max support 25-digital character.

	Chann	el Name	X
CAM 1	CAM 1	CAM 2	CAM 2
CAM 3	CAM 3	CAM 4	CAM 4
CAM 5	CAM 5	CAM 6	CAM 6
CAM 7	CAM 7	CAM 8	CAM 8
CAM 9	CAM 9	CAM 10	CAM 10
CAM 11	CAM 11	CAM 12	CAM 12
CAM 13	CAM 13	CAM 14	CAM 14
CAM 15	CAM 15	CAM 16	CAM 16
Default		Save	Cancel

Figure 5-26

In tour mode, you can see the following interface. On the right corner, right click mouse or click shift button, you can control the tour. There are two icons: Stands for enabling window switch and Stands for enabling window function. See Figure 5-27.

			\land
			O 2006-07-04 17:29:34
CAM 1	CAM 2	CAM 3	CAM 4
CAM 5	CAM 6	CAM 7	CAM 8
CAM 9	CAM 10	CAM 11	CAM 12
CAM 13	CAM 14	CAM 15	CAM 16

Figure 5-27

5.3.10 Default

Click default icon, system pops up a dialogue box. You can highlight **I** to restore default factory setup. See Figure 5-28.

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

Please highlight icon \blacksquare 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!



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 5-29. There are total seven function keys: HDD management, alarm output, abnormity, manual record, account, auto maintain, and TV adjust.



Figure 5-29

5.5.1 HDD Management

Here is for you to view and implement hard disk management. See Figure 5-30. You can set proper mode for each hard disk from the dropdown list.

When you use redundant backup function, you can set one or more redundant HDD(s).

Please note you need to set at least one read-write disk, otherwise system will not record video. For detailed information you can refer to chapter 4.4 Schedule. After all the setups please click save button, system needs to reboot to get all the modification activated.
	HDD MANAGEMENT X
SATA	1 2 3 4 5 6 7 8 Alarm Set O O O O Alarm Release
HDD No.	1 Set to Read/Write Execute
Type Status Capacity Record time	Read/Write Read only Normal 79.99 GB 00-00-00 00:00:00 / 00-00 Recover OK

Figure 5-30

Click alarm set button, the interface is shown as below. See Figure 5-31(This interface is just like the abnormity setup).

Please highlight icon \blacksquare to select the corresponding function.

You can enable one or more alarm setups. The lower limit ranges from 1% to 99%. Alarm channel number ranges from 1 to 6. Delay value is from 0 to 240 seconds. Please note when HDD capacity is not full system only alarms once! After all the setups please click OK button, system goes back to the previous menu

	ABNORMITY	×
Event Type Enable	Disk Error	
Alarm Out	123456 Latch 10 sec. Send Email	
	Save Cancel	

Figure 5-31

5.5.2 Abnormity

Abnormity interface is shown as in Figure 5-32.

- Event type: There are several options for you such as disk error, no disk and etc.
- Alarm output: alarm activation output port (multiple choices), among which is controllable 12V output.

- 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.
- Send email: System can send out email to alert you when alarm occurs.

	ABNORMITY	X
Event Type Enable	Disk Error	
Alarm Out	123456 Latch 10 sec. Send Email	
	Save Cance)

Figure 5-32

5.5.3 Alarm Output

Here is for you to set proper alarm output.

Please highlight icon <a>[to select the corresponding alarm output.

After all the setups please click OK button, system goes back to the previous menu. See Figure 5-33.



Figure 5-33

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 5-34. Here you can:

- Add new user
- Modify user
- Add group

- Modify group
- Modify password.

For account management please note:

- 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.



Figure 5-34

5.5.6 Auto Maintain

Here you can set auto-reboot time and auto-delete old files setup. See Figure 5-35. You can select proper setup from dropdown list.

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

Auto-Reboot System
Never 🔹 at 00:00
Auto-Delete Old Files
Never
OK Cancel

Figure 5-35

5.5.7 TV Adjust

Here is for you to adjust TV output setup. See Figure 5-36.

Please drag slide bar to adjust each item.

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



Figure 5-36

5.5.8 Video Matrix (For RGH--S and RGL-S Series only)

Some series DVR have the matrix and loop outputs.

5.5.8.1 Loop outputs

They are just the same with video distributors. There are 4/8/16-ch video loop outputs from our DVR. The DVR video output can connect with other devices such as TV walls, analog matrix and so on.

5.5.8.2 Matrix outputs

They are like the small-scale matrix. You can select any camera from our DVR to switch. And the output can also tour between the cameras. So the matrix outputs can be used to build TV walls and tour and display the cameras one by one.

5.5.8.3 Rear Panel Connection

The rear panel is shown as below. See Figure 5-37.



Figure 5-37

5.5.8.4 37-pin cable introduction

There are three colors cable. See Figure 5-38.

- Black: for loop outputs, there are 16-ch loop outputs
- Blue: for matrix outputs, there are 4-ch matrix outputs
- White: for bi-direction talk, one is for audio in and the other is for audio out.



Figure 5-38

5.5.8.5 Matrix setup

5.5.8.5.1 Enter Video Matrix Interface

In the menu, from "Advanced" to "Video Matrix". You can see an interface is shown as in Figure 5-39.



Figure 5-39

5.5.8.5.2 Right Mouse Menu

In one-window display mode, right click mouse to select "Video Matrix". See Figure 5-40.





5.5.8.6 Video Matrix Interface and Application

The video matrix interface is shown as in Figure 5-41.

Now MGxxL series support 4-channel matrix outputs and MGxxH series support 1 channel matrix output. All the operation below based on MG series DVR.

You can set for each channel. The function consists of three types. The priority is: alarm>motion detection>schedule.

5.5.8.6.1 Scheduled Video Output (Scheduled Tour)

Please enable corresponding video output item and input tour interval, and then set the tour output channel. System maximally supports 16 channels. Now system can implement tour output as you just set.

Highlighted here	Select ALL or cancel	\TRI	Select channel(s) here	×
		_		
Uideo Output	I All 1 2 3 4 I Interval 5	5 6 se	Input interval h	ere
Video Output 2	2 AI1234	56(71891911121314	ច្រោច
☐ Video Output 3	3 AI1234	<u></u>	~. 7 8 9 10 11 12 13 14	1516
☐ Video Output 4	Interval 5 AI1234 Interval 5	_) se 5]6] _) se	c. 7 8 9 10 11 12 13 14 c.	1516
Note:The linkage s	etting of Alarm and CT	Motio	n Detect is in the page	of
	Default Sav	e)	Cancel	

Figure 5-41

5.5.8.6.2 Alarm Activation Matrix

Please go to alarm setup interface to set the alarm activate matrix function ((Main Menu->Setting->Alarm)). See Figure 5-42. You can follow the steps listed below:

- Select local alarm
- The record channel function has been enabled and you have selected corresponding record channel.
- The video matrix function has been enabled and you have selected corresponding video matrix channel.

After selecting activation channel in the record channel item, you can enable video matrix function and then select vide output channel. Once the alarm occurs, system continues scheduled matrix tour after alarm tour completes. If there is no scheduled tour available, the matrix will stop at the last activation channel after alarm completes.

When there are several alarm inputs at the same time, the situation maybe a little bit complex. Here is an example.

System setup is shown as below:

• Alarm input 1 can activate channel1/2/3/4/5/6

- Alarm input 2 can activate channel 2/3/4/5/6/7/8
- Alarm input 1 and alarm input 2 activate video output 1.

So, when there is alarm from channel 1, video output 1 becomes valid. If there is no alarm from alarm input 2 during the same period, then video output 1 can tour between channel1/2/3/4/5/6.

When video output 1 goes to channel 3 and there is alarm form channel2, then video output 1 tour between 4/5/6/7/8/2.

The general principles are:

- When alarm activate, each valid channel alarm input can activate a complete tour between activation channels.
- When there are several alarm inputs in the same video matrix output, system video matrix can activate all the channels in the setup.
- If system has toured some activation channels, then corresponding alarm activation channels are null.

	ALARM	×
Event Type	Local Alarm 🔻 Alarm In	1
Enable	📃 Туре	Nor Open 🔻
Highlighted h	ere	Select alarm input channel
Period	Set	
Ala Out	123456 Latch	10 sec.
S Iow Message	Send Ema	ail
Record Channel	123456789101	11213141516
PTZ Activation	Select Delay	10 sec.
Tour	1234567 <mark>.00000</mark>	าศวศวศภศิลกา
Snapshot	1234567 Correspond	ding to video out put in
Video Matrix	1234 Figure 5-41	1.
	aste Default Sa	ave (Cancel)
Highlighted here		
	Figure 5-42	

5.5.8.6.3 Motion Detection (including video loss and camera masking)

Motion detection principle is the same as alarm. You can set in motion detection interface (Main menu->Setting->Detect). See Figure 5-43.

In detect interface, you can set the activation channel. You can enable video matrix function if you want to set matrix function, and then set video matrix output channel. Once the activation occurs, system continues scheduled matrix tour after motion detection tour completes. If there is no scheduled tour available, the matrix will stop at the last activation channel after alarm completes

	DETECT		×
Event Type	Motion Detect - Channel	1	-
Enable			
Region	Select Sensitivity	3	•
Period	Set		
Alarm Out	123456 Latch	10 sec.	
Show Message	Send Email		
Record Channel	12345678910111	213141516	
PTZ Activation	Select Delay	10 sec.	
Tour	12345678910110	213141516	
Snapshot	12345678910111	213141516	
🔲 Video Matrix	1234		
Сору Р	aste Default Save	Cance	əl

Figure 5-43

5.5.8.6.4 General Tour Principle

When system is in scheduled tout status, once the alarm occurs, system first check video matrix function has been enabled or not and there is effective matrix or not. System will continue implementing scheduled tour in the following two conditions:

- Video output function has not been enabled.
- There is no video matrix setup available.

If there is valid video matrix setup, system can activate corresponding tour among alarm channels and then begin scheduled tour after alarm tour completes. If there is no schedule tour available, the matrix will stop at the last activation channel after alarm completes.

Motion detection activation is almost the same as the alarm. But it has different priority. System will continue implementing scheduled tour in the following two conditions:

- Video output function has not been enabled.
- There is no video matrix setup available.

If there is a valid video matrix setup, system will check weather there is tour of higher priority and implement corresponding process. During the motion detection tour, system will process alarm first if alarm occurs. It is the same as alarm occurs in scheduled tour period.

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 5-44.



Figure 5-44

5.6.1 HDD Information

Here is to list hard disk type, total space, free space, video start time and status. See Figure 5-45.

Note:

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.

If disk is damaged, system shows as "?"

1			_					HD	D INF	0			×
	SATA	1 0	2 O	3 0	4 0	5	6	7	8				
ļ	4			Туқ	pe		То	otal S	pace		Free Sp	bace	Status
	All 1 2 3 4	F	{ead {ead	l/Wri l/Wri	te te ?			79.9 79.9 79.9	19 GB 19 GB 19 GB		159.98 79.99 79.99	3 GB) GB) GB	Normal Normal
	N Pag	je l	Jb I	∢ Pa	age	Dov	'n			Fn	Viev	w recor	ding times

Figure 5-45

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 5-46.

*			BPS	×
Channel	Kb/S	MB/H	Wave	
1	1747	383		
2	1736	381	1	
3	1736	381	1	
4	1736	381	T.	
5	1736	381	1	
6	1736	381		
7	1736	381	T.	
8	1736	381	1	
9	1736	381	1.	
10	1736	381		
11	1736	381		
12	1736	381	1	
13	1736	381		
14	1736	381		
15	1736	381	N N	
16	1736	381		

Figure 5-46

5.6.3 Log

Here is for you to view system log file. System lists the following information. See Figure 5-47.

Log types include system operation, configuration operation, data management, alarm event, record operation, log clear and etc.

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

I 🤸 🛛 🛛	LOG	\times
Туре	All	
Start Time	2006 - 06 - 16 00 : 00 : 00	
End Time	2006 - 06 - 17 00 : 00 : 00 Search	
4 Log Time	e Event	
1 06-06-16 1	5:53:31 Shut down at [06-06-08 19:28:49]	
2 06-06-16 1	5:53:31 Reboot with Flag [0×01]	
3 06-06-16 1	6:06:47 Shut down at [06-06-16 15:56:11]	
4 06-06-16 1	6:06:47 Reboot with Flag [0×01]	
H Page Up	N Page Down Clear	5

Figure 5-47

5.6.4 Version

Here is for you to view some version information. See Figure 5-48.

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



Figure 5-48

5.6.5 Online Users

Here is for you manage online users. See Figure 5-49.

You can disconnect one user or block one user if you have proper system right.

<u>89</u>	ONLINE USERS	×
User Name	IP	<u> </u>
J.W	10.6.2.37	
🗌 J.W	10.6.2.37	
J.W	10.6.2.37	
J.W	10.6.2.37	
J.W	10.6.2.37	
J.W	10.6.2.37	
Disconnect	Block for 60	sec.

Figure 5-49

5.7 Exit

Double click exit button, system pop up a dialogue box for you to select. See Figure 5-50.

- 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 5-50

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.



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

Click icon and with 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.)



Figure 6-3

6.1.1 3D Intelligent Positioning Key

In the middle of the eight direction arrows, there is a 3D intelligent positioning key. See Figure 6-4. 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		(1)	Far	>>
Focus	0	Near	•	(Far	
Iris	\bigcirc	close	◀	(Open	▶
					•	

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



Figure 6-5

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

PAN/TILT/ZOOM	\times
No. 0 Preset)
Pattern Tour)
AutoScan AutoPan)
Flip Reset)
Page Switch	

Figure 6-6

6.2.1 Preset Setup

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

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

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

Add this preset to one patrol number



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.

10 P/	AN/TILT/ZO	OM	×
Function Preset Patrol Pattern Border	Preset Patrol No. Add P Del Pr	1 0 reset reset	K

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.



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.

P/	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

Please note, all the operation here is taking 16-ch DVR as an example. 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.
- System is compatible with WIN VISTA web control right now. But you need to disable user account control function. Double click user account and then disable user account control. After completing setup, please reboot the PC.
- 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 web.bat. Please note, before you un-install, please close all web pages, otherwise the uninstallation might result in error.

7.2 Login

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



Figure 7-2

After installation, the interface is shown as below. See Figure 7-3.

Please input your user name and password.

Default factory name is admin and password is admin.

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



Figure 7-3

After you logged in, you can see the main window. See Figure 7-6.

This main window can be divided into the following sections.

- Section 1: there are five function buttons: configuration (chapter 7.3), search (chapter 7.4), alarm (chapter 7.5), about (chapter 7.6), log out (chapter 7.7).
- Section 2: there are channel number and three function buttons: refresh, start dialog and local play.
- 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/6window/8-window/9-window/13-window/16-window/20-window/25window/36-window. See 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.



Figure 7-5



Figure 7-6

7.2.1 Real-time Monitor

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

For detailed function key information, please refer to Figure 7-7.



Figure 7-7

- 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 -.local record to set video file path.
- 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 7-8 for main stream and extra stream switch information.



Figure 7-8

Refresh

You can use button to refresh camera list.

Start Dialogue

You can click this button to enable audio talk.

Local Play

Click local play button, system pops up the following interface for you to select local play file. See Figure 7-9.

Open	2 🔀
Look in: 🞯 Desktop	
My Documents My Computer My Network Places Access IBM AOL Double-Click to Start EarthLink Internet 30 Days Free	Norton AntiVirus In100 ThinkVantage Technologies Secu Wireless Manager In100 2008_04_08 In100 CCF09042008_00000 In100
File name: Files of type: Record files (*.*)	 Cancel

Figure 7-9

7.2.2 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 7-10.



Figure 7-10

7.2.2.1 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 SIT button, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size. It can realize PTZ automatically.

7.2.2.2 Speed

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

7.2.2.3 Zoom/Focus/Iris

Here is a sheet for you reference.

Function	Function	Function	Function
key		key	
I	Near	4	Far
	Near		Far
	closo		Opop
	0030	1	Oben
	Function key	Function keyFunctionImage: Second secon	Function keyFunction keyImage: Second seco

Then click triangle icon in Figure 7-10, you can see the following interface. See Figure 7-11.



Figure 7-11

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

et PTZ			X
-Auto-Scan	Left Limit	Right Limit	
Preset	Add	Delete	
Auto-Tour	Add	Delete	Delete Group
Pattern 1	Start Record	Stop Record	Delete
Assistant BLC 💌	Start	Stop	

Figure 7-12

7.2.2.4 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. 7.2.2.5 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.

7.2.2.6 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.

7.2.2.7 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.

7.2.2.8 Assistant

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

et PTZ			E
-Auto-Scan	Left Limit	Right Limit	
Preset			
1	Add	Delete	
-Auto-Tour			
1	Add	Delete	Delete Group
-Pattern			
1	Start Record	Stop Record	Delete
Assistant			
BLC 💌	Start	Stop	
BLC Digital Zoor Night Vision			
Camera Brig Preset Titl			

Figure 7-13

7.2.3 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	
赣台	. <u> </u>	- 0
		- 12
\bigcirc (•	- 18
% ⊲		- 18
Reset		

Figure 7-14

7.2.4 Picture Path and Record Path

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

Color 1	vlore
PIC Path	REC Path

Figure 7-15

Click picture path button, you can see an interface is shown as in Figure 7-16.



Figure 7-16

Click record path button, you can see an interface is shown as in Figure 7-17.

Set Pat	h	×
Path	C:\RecordDownload	Choose
	Set Cancel	

Figure 7-17

7.2.5 Menu Interface Switch

Put your mouse on the PTZ control bar until you see the following icon. See Figure 7-18.



Figure 7-18

Left click your mouse and then drag it to the channel control status bar. You can see the two menus interface switched. See Figure 7-19. You can compare the following interface with

Figure 7-6.



Figure 7-19

7.3 Configure

In the main window, click config button, you can see an interface is shown as in Figure 7-20.



Figure 7-20

7.3.1 System Information

Click device configuration button, you can see the following interface. See Figure 7-21.

Config			X
Device Config SYSTEM INFO YUERSION YUERSION YUERSION YUERSION YUERSION YUERSION YUERSION YUERSION YUERSION SCHEDULE SCHEDULE SCHEDULE SCHEDULE SCHEDULE SCHEDULE SCHEDULE PR/TILT/ZOOM TOOL AUVANCED AUVANCED AUVANCED AUVANCED AUVANCED AUVANCED AUVANCED AUTO MAINTAIN VIDEO MAINTAIN VIDEO MAINTAIN SNAP PICTURE	Item S/N Video In/Out Audio In/Out Alarm In/Out Ethernet Port RS232 IDE/SATA Fort Bios Version	Stauts YAIO2320708A380045 16/1 16/6 1 1 2.400, Build:2008-3-31	
	1		Ketresh

Figure 7-21

• Version

Click version button, you can see corresponding HDD information for your reference. See Figure 7-22.



Figure 7-22

• HDD Information

Here you can view HDD amount, HDD status, total volume and free space. See Figure 7-23.

Config				
💻 Device Config	S/N	HDD Status	Free/Total Space	
SYSTEM INFO VERSION VERSION VERSION VERSION VERSION VERSION VERSION VERSION SOLUTION SCHEDULE SSCHEDULE SSCHEDULE SSCHEDULE SSCHEDULE SSCHEDULE SSCHEDULE SNAP PICTURE	Total HDD 1	Working	0/476924MB 0/476924MB	
				Refresh

Figure 7-23

• Log

Click log button, you can see an interface is shown as in Figure 7-24. Here you can view current device log information.

Config				×
🖳 Device Config 🖻 📝 SYSTEM INFO	-LOG Type	All	- Search Clear	
VERSION		All		
- W HDD INFO	S/N Log T	System	Event	~
IDG	0001 2008-	Config D3 Stores	Video Loss: Channel No. : 1	
E IT SETTING	0002 2008-	D3 Alarm	Video Loss: Channel No.: 1	
GENERAL	0003 2008-	D3 Record	Video Loss: Channel No.: 1	
C ENCODE	0004 2008-	D3 Account	Video Loss: Channel No.: 1	
ENCODE	0005 2008-	03 Clear	Video Loss: Channel No.: 1	
- SCHEDOLE	0006 2008-]3 Search	Video Loss: Channel No.: 1	
- Cia RS232	0007 2008-	J3-19 10:15:36	Video Loss: Channel No.: 1	
- Cin NETWORK	0008 2008-	J3-19 10:15:38	Video Loss: Channel No.: 1	
- C MULTI-DDNS	0010 2008-	J3-19 10.15.30 D2-10 10.17.27	Video Loss, Channel No.; 1 Mary Losis, Johnnel No.; 1	
FTP	0011 2008-	13-19 10.17.20	Device Shut Down Time: 2008-3-19 10	
AT ARM	0012 2008-	13-19 10:17:29	Normal Reboot	
DETECT	0013 2008-	03-19 10:17:35	User Logout: default	
	0014 2008-	03-19 10:17:35	User Login: 888888	
PAN/TILI/ZUUM	0015 2008-	03-19 10:17:40	Video Loss: Channel No.: 2	
TOOL	0016 2008-	03-19 10:17:40	Video Loss: Channel No.: 3	
🖃 🍓 ADVANCED	0017 2008-	03-19 10:17:40	Video Loss: Channel No.: 4	
ACCOUNT	0018 2008-	03-19 10:17:40	Video Loss: Channel No.: 5	
BECORD CONTROL	0019 2008-	03-19 10:17:40	Video Loss: Channel No.: 6	
HTD MANAGEMENT	0020 2008-	03-19 10:17:40	Video Loss: Channel No.: 7	
	0021 2008-	03-19 10:17:40	Video Loss: Channel No. : 8	
AUIO MAINIAIN	0022 2008-0	J3-19 10:17:40	Video Loss: Channel No.: 9	
VIDEO MATRIX	0023 2008-	J3-19 10:17:40 D2-10 10:17:40	Video Loss: Channel No.: 10	
Ci SNAP PICTURE	0024 2000-	03-19 10.11.40 02-10 10:17:40	Video Loss, Channel No., 11 Video Loss, Channel No., 12	
	0025 2008-	03-19 10:17:40 03-19 10:17:40	Video Loss: Channel No.: 12	
	0027 2008-	03-19 10:17:40	Video Loss: Channel No.: 13	
	0028 2008-	03-19 10:17:40	Video Loss: Channel No.: 15	
	0029 2008-	03-19 10:17:40	Video Loss: Channel No. : 16	
	0030 2008-	03-19 10:19:08	Export Config: Config Info	
	0031 2008-	03-19 10:20:19	User Login: default	~
	0000 0000-	00-00 10-00-00	D CL.: D T.L 2000-2-10 10	10700

Figure 7-24

7.3.2 Setting

Setting includes the following items:

- ♦ General
- ♦ Encode setup
- ♦ Schedule
- ♦ RS232
- ♦ Network
- ♦ MUL-DDNS
- ♦ FTP
- ♦ Alarm setup
- ♦ Detect
- ♦ Pan/Tilt/Zoom
- ♦ Tool

Please note: setups for different device series may vary. Please refer to the corresponding user's manual.

• General

General interface is shown as in Figure 7-25.

- ♦ System time: Here is for you to modify system time. Please click Save after your modification
- ♦ Data format: Here you can select data format from the dropdown list.
- \diamond Data separator: Please select separator such as or /.
- ♦ Time format: there are two options: 24-H and 12-H.
- HDD full: there are two options: stop recording or overwrite the previous files when HDD is full.
- ♦ Pack duration: Here you can select file size. Default setup is 60 minutes.
- Device No.: when you are using one remote control to manage multiple DVRs, you can give these DVRs serial numbers respectively. Click address button in your remote control and then input the correct device number, now you can control the DVR now.
- ♦ Video standard: PAL. (for your reference only)

Config					
Device Config SYSTEM INFO VERSION HDD INFO LOG SETTING ENCODE SETTING ENCODE SCHEDULE RS232 NETWORK MULTI-DDNS FTP ALARM. DETECT PAN/TILT/ZOOM TOOL ACCOUNT RECORD CONTROL HDD MANAGEMENT AUTO MAINTAIN VIDEO MATRIX SNAP PICTURE	System Time Date Format Date Separator Time Format HDD Full Pack Duration Device No. Video Standard	2008- 4- 9 - YYYY MM DD ' - ' • 24-HOUR Overwrite 60 8 PAL	• 9:22:52	Save	Sync PC

Figure 7-25

• Encode

Encode setup includes the following items. See Figure 7-26. Here you can select

- ♦ Channel: Here is for you to select a channel.
- ♦ Channel name: Modify channel name.
- ♦ Data stream: Regular and extra data stream.
- ♦ AV enable: Video/Audio. System only displays video by default. You need to manually enable audio function.
- ♦ Bit rate: There are two options: CBR and VBR. You can only set video quality in VBR mode.
- ♦ Frame rate: The value ranges from 1f/s to 25f/s (PAL) and 1f/s to 30f/s (NTSC).
- ♦ Compression: There are two options: H.264 and MPEG 4.
- ♦ Resolution: D1/HD1/DCIF/CIF
- \diamond Quality: The value ranges from 1 to 6. The level 6 is the best video quality.

Config							X
Device Config SYSTEM INFO VERSION VERSION VERSION VERSION SCHEDULE SCHEDUL	Channel Main Stream Audio/Video Resolution Frame Rate(FFS) Compression Bit Rate Bit Rate Bit Rate Reference Bit	Channel 01 Main Stream Video Au D1 6 H264 CBR 1024 736Kbps~1056K	indio io i	Channel Nam	e Cai	M 1	
			L	Save	Refre	sh	

Figure 7-26

• Schedule

Schedule includes the following interface. See Figure 7-27.

When DVR boots up, it is in 24-hour continuous record. In this interface you can set record type, record time and period. Record type includes regular record(R), motion detection record (M) and alarm record (A).

- ♦ Channel: select the channel number you desire.
- ♦ Week: you can select from the dropdown list. Or you can select at the bottom of the interface.
- Prerecord: system can record the three to five seconds video before activating the record operation into the file.(Depends on data size)
- Period: There are six periods for you to set. Please click set button of the corresponding period. See Figure 7-28.Please note all the setup here shall be in one day. E.g. 00.00 to 24.00.



Figure 7-27

Sunday					
		Re	gular	MD	Alarm
Period 1 0:0	0:00	23:59:59		•	
Period 2 0:0	0:00 -	23:59:59 +	Γ		Π
Period 3 0:0	0:00 -	23:59:59 +	Γ		Γ
Period 4 0:0	0:00 -	23:59:59 🔹	Γ		Γ
Period 5 0:0	0:00 -	23:59:59 🔹	Γ		Γ
Period 6 0:0	0:00 -	23:59:59 🔹	Γ		Γ
All Week					
🔽 Sun	Mon	Tue T	Wed		
🔲 Thu	🗍 Fri	🔲 Sat			
	OK)	Cancel			

Figure 7-28

Tip:

After you finished setup for one channel, you can click "save as" button, system pops up the following interface. See Figure 7-29.Now you can copy one channel setup to other channels.

Save as
All Channel
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
Save Cancel

Figure 7-29

• Network

Network interface is shown as in Figure 7-30.

This interface includes the following items:

Max: Here you can set max connection amount. The value ranges from 0 to 10. 0 means no network connection is allowed.

TCP port: default setup is 37777. Please note port 37778 is for network UDP port use only.

HTTP port: default setup is 80.

Transfer: here you can select the priority between fluency/video quality.

♦ Enable PPPoE

In remote item, enable PPPoE function and then input "PPPoE name" and "PPPoE password" you get from your ISP (Internet service provider). See Figure 7-30.

Click save button, you need to restart to activate your configuration.

After rebooting, DVR will connect to internet automatically. The IP displayed in the IP address item is the dynamic value. You can use client-end software to visit current IP now.

Config			X
Device Config SYSTEM INFO VERSION WERSION WID INFO HOG	Max ☑ Transfer	10 TCP Port 37777 Latency	HTTP Port 80
FIG SETTING GENERAL ENCODE SCHEDULE RS232 NETWORK MULTI-DDNS FTP ALARM DETECT DETECT	Ethernet IP Address Subnet Mask Gateway	Ethernet Port 01 Image: Constraint of the second	Service Type PPPoE IP Address 0 0 0 0 Port 0 065535 User Name Password Regist IP: Frable
PAN/TILT/ZOOM TOOL AUVANCED ACCOUNT PERCORD CONTROL PERCORD CONTROL PHDD MANAGEMENT AUTO MAINTAIN VIDEO MAINTAIN SNAP PICTURE			Save Refresh

Figure 7-30

♦ Enable DDNS

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).see Figure 7-31. Please enable DDNS function and then input PC IP. Click save button and then reboot device. Now you can login via DDNS. Please open IE and then input http: //(DDNS server IP)/ DDNServer / default.htm. for example, input http: //10.5.2.149/DDNServer/default.htm, you open a DDNS server web page.

Config				
Device Config SYSTEM INPO VERSION WENSION DG ENCODE SCHEDULE SCHEDULE RS232 MULTI-DDNS FTP ALARM. DETECT PAN/TILT/ZOOM COUNT RECORD CONTROL HDD MANAGEMENT	Max ↓ Transfer Ethernet IP Address Subnet Mask Gateway	10 TCP Port 37777 Latency Image: Constraint of the second	HTTP Port Highspeed Service Type IP Address Port User Name Password DDNS: Host	80 downloading DDNS Server 0 0 0 0 0 0 0 0°65535 DHDVR Frashle
RECORD CONTROL HDD MANAGEMENT AUTO MAINTAIN VIDEO MATRIX			Save R	efresh

Figure 7-31

• RS232

RS232 includes the following items. See Figure 7-32.

- Function: There are various devices for you to select. Console is for serial port or min-end platform to upgrade program. Keyboard is for you to use special keyboard to control current device.
- ♦ Baud rate: Please select as you desire.
- \diamond Data bit: The value ranges from 5 to 8.
- \diamond Stop bit: There are three options: 1/1.5/2.
- ♦ Parity: There are three options: none/odd /even.

Config				
Device Config SYSTEM INFO VERSION HDD INFO Content of the second sec	RS232 RS232 COM Function Data Bits Stop Bits Baudrate Parity	COM 01 Console 8 1 115200 None		
			ļ	Save Refresh

Figure 7-32

• Mul-DDNS

Here you can select DDNS type. This operation needs DVR device supported. See Figure 7-33.

Config					
Device Config	☐ DDNS-1 ☐ DDNS-2 ☐ DDNS-3 ☐ DDNS-4	DDNS Setup Server Type Server IP Server Port User: Password Domain Nickname	CN99 DDNS 0 0 1	0 0 0 1~65535	



• FTP
After you completed setup here, system upload scheduled data to the specified FTP server regularly. Need device supported.

In Figure 7-34, you need to input FTP server address, port, log in user name and password. Then you need to specify the destination directory to save files.

- File: here you can input uploaded file length (Unit: MB) if the file is smaller than the setup value here, system upload the whole file. If the file is larger than the setup value, system only uploads the setup value data and ignores the rest data.
- Interval: for one channel of the same record type if there is more than one alarm, system only uploads the first file. For example, if the interval is five minutes, then system only uploads the first alarm or motion detection file even though there are several alarms in these five minutes. If the setup is 0, then system upload all files.
- Time period: Click set button, you can an interface as in Figure 7-35. You can check the box to select the file type. System supports multiple choices.

Config							2
Device Config SYSTEM INFO VERSION HDD INFO LOG SETTING	FTP Ena Host IP User Name Password FTP path Period In	ble 0.	0.0.0		Port File Size Interval	1024 0 0	0~65536 MB Min.
GENERAL — ENCODE — SCHEDULE — RS232	Channel 0	Chann 4	el (▼ 8	Regular 12 Sun	16	20	24
METWURK MULT-DDNS FTF ALARM. DETECT		x 1	n r	Mon Tue	r 1	т э 1 7	Set Set
PAN/TILT/ZOOM TOOL ADVANCED ADVANCED		y a	-1 E	Wed Thu	r a r a), л л л	Set
HDD MANAGEMENT AUTO MAINTAIN VIDEO MATRIX		•		Fri	i si	т т 1 т	Set Set
SMAF FICTURE	Save as	1		Sa	ve	Refresh	

Figure 7-34

Sunday					×
		R	egular	MD A	larm
Period 1	0:00:00	23:59:59			
Period 2 🛛	0:00:00	23:59:59	Γ		Γ
	feek				
🔽 Sun	Mon	Tue 🗍	Wed		
Thu 🕅	🗌 Fri	🔽 Sat			
	(OK)	Cance	1		

Figure 7-35

• Alarm

Please note before alarm setup, you need to properly connect alarm input and output device, send address and receive address. Click save button confirm current setup. Alarm setup includes the following items. See Figure 7-36.

- ♦ Event Type: you can select event type from the drop down list: Local alarm/Net alarm.
- ♦ Alarm in: Select corresponding alarm in channel
- ♦ Type: There are two options: normal open and normal close.
- Record channel: select record channel when alarm occurs. Please note you need to select alarm record in DVR schedule interface and enable schedule function in manual record interface.
- Alarm output: select alarm activation channel when alarm occurs. Please note channel 3 is to control +12V output.
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
- ♦ 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 x when there is an alarm. Click set button, the interface is shown as in Figure 7-37.
- ♦ Tour: Here you can enable tour function when alarm occurs. System supports multiple-window tour. Please go to chapter 5.3.9 Display for tour interval setup.

Figure 7-36

Par	w/Tilt/Zoom			
	Event Type	Addr.		
1	NEVER	0		
2	NEVER	0		
3	NEVER	0		
4	NEVER	0		
5	NEVER	0		
6	NEVER	0		
7	NEVER	0		
8	NEVER	0		
)K	Cancel	

Figure 7-37

• Detect

Detect interface is shown as in Figure 7-38. Here includes the following items:

- ♦ Channel: Select channel name from the dropdown list.
- Type: There are three types: motion detection/Video loss/Camera mask detection.
- Record channel: Here you can select record channel (Multiple choices). 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)

- ♦ Period: Here is for you to set record period. Click set button, you can see an interface is shown as in Figure 7-39. In Figure 7-39, click time set button, you can see an interface is shown as in Figure 7-40. Here you can set time period.
- ♦ Sensitivity: 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 7-41. There are 192 zones (16*12). Right click mouse you can go to full-screen display mode. Do remember clicking OK button in Figure 7-41 to save your motion detection zone setup.
- Alarm output: Here you can select activated external peripheral device when alarm occurs.
- Show message. System can alert you on the local screen if you enabled this function.
- ♦ Mail: system can send out email to alert you when alarm occurs.
- Tour: Here you can enable tour function when alarm occurs in corresponding channel. System supports multiple-window tour. Please go to chapter 5.3.9 Display for tour interval setup.
- PTZ activation: Click set button, you can see an interface is shown as in Figure 7-42. System can go to corresponding preset when alarm occurs.

Config		
Device Config	Event Type	Motion Deter
VERSION VERSION	Channel Sensitivity Channel Record Latch Alarm Out Alarm Latch V Show Mess: Tour PTZ Active Capture	Channel 01 Enable Period Set 6 ✓ Region Select 1 2 3 4 5 6 10 sec. 1 2 3 4 5 6 10 sec. ✓ Mail 1 2 3 4 5 6 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Set 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
	Save as	Save Refresh

Figure 7-38

Time S	chedule						×
0	4	8	12	16	20	24	
			Śun			·	(ime Setu;
			Mon			'	lime Setur
			Ťue				lime Setur
			Wed			'	[ime Setur
						·	lime Setur
			Fri				lime Setur
			Sat				lime Setur
			ок	Cancel			

Figure 7-39

Sunday	X
Period 1 0:00:00 - 23:59:59 - 🗸	
Period 2 0:00:00 - 23:59:59 -	
Period 3 0:00:00 - 23:59:59 -	
Period 4 0:00:00 - 23:59:59 -	
Period 5 0:00:00 - 23:59:59 -	
Period 6 0:00:00 - 23:59:59 -	
All Week	_
🔽 Sun 🥅 Mon 🥅 Tue 🥅 Wed	
Thu Fri Sat	
Cancel]

Figure 7-40



Figure 7-41

Par	/Tilt/Zoom			
	Event Type	Addr.		
1	NEVER	0		
2	NEVER	0		
з	NEVER	0		
4	NEVER	0		
5	NEVER	0		
6	NEVER	0		
7	NEVER	0		
8	NEVER	0		
	01	K	Cancel	

Figure 7-42

• Pan/Tilt/Zoom

Pan/Tilt/Zoom interface is shown as in Figure 7-43.

Please note you have properly set dome address and all connections are right.

- ♦ Decoder: Select the dome connected channel.
- ♦ Protocol: select the corresponding dome protocol.(such as Pelco)
- 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.
- \diamond Data bit: Default setup is 8.
- ♦ Stop bit: Default setup is 1.
- ♦ Parity: Default setup is none.

Config						X
Device Config SYSTEM INFO WENSION WHD INFO WENSION WHD INFO General G	RS485 Channel Frotocol Address Baudrate Data Bits Stop Bits Parity Save as	Channel 01 PELCOD 9600 8 1 None	× 0°255 ×	Decoder	Refresh	

Figure 7-43

• Tool

Here you can export or import configuration information. See Figure 7-44.

Save configuration data: Click export config button to save current setup as a file. Extension name is CFG. See Figure 7-45.

Load configuration data: Click import config button, you can load a setup file.

Config	
Device Config VERSION VERSION VERSION VERSION DIG TSETLING GENERAL ENCODE SCHEDULE RS232 NETVOER MULTI-DDNS FTP ALASM. DETECT PAN/TILL/ZOOM ACCOUNT RECORD CONTEOL MUNACEDE ACCOUNT RECORD CONTEOL MUNACEDEETT AUTO MAINTAIN VIDEO MATRIX SNAP FICTURE	Default Path: C:\Documents and Settings\Administrator Emport Config Import Config

Figure 7-44

Save As	28
Save jn: 🚺 Desktop	▼ 🖬 🏕 🔳 🔹
My Documents My Computer My Network Places OEM_120060919	
File name:	Save
Save as type: Config File (*.cfg)	Cancel

Figure 7-45

7.3.2.1 Advanced

Advanced includes the following items. See Figure 7-46.

- \diamond Account
- ♦ HDD management
- ♦ Alarm input
- ♦ Alarm output
- ♦ Auto maintain
- ♦ Video matrix
- ♦ Snapshoot

• Account

Account interface is shown as in Figure 7-46. Here you can add/delete user, add/delete group, modify user or group right, modify user password.

Device Config SYSTEM INFO VERSION HDD INFO LOG SETTING GENERAL GENERAL GENERAL SCHEDULE SCHEDULE RS232 NETWORK MULTI-DDNS FTP ALARM. DETECT PAN/TILT/ZOOM Account Account Modify User Detet User Modify Password Modify Password
ADVANCED ACCOUNT RECORD CONTROL HDD MANAGEMENT AUTO MAINTAIN VIDEO MATRIX SNAP FICTURE Refresh

Figure 7-46

Click add group button, you can see the following interface. See Figure 7-47. Here you can add one new group, and then select corresponding rights for the whole group accounts.

Add Group	
Name Memo Authority	
CtrFanel Shutdown Monitor Monitor_CH01 Monitor_CH02 Monitor_CH03 Monitor_CH04 Monitor_CH05 Monitor_CH06 Monitor_CH07 Monitor_CH09 Monitor_CH09 Monitor_CH10 Monitor_CH11 Monitor_CH12 Monitor_CH12 Monitor_CH13 Monitor_CH13 Monitor_CH15 Monitor_CH15 Monitor_CH15 Monitor_CH16 Replay Replay_CH01 Replay_CH02	
Cancel	

Figure 7-47

Click add user button, you can see the following interface. See Figure 7-48. Here you can input a new user and then select corresponding rights. Please note one user must belong to one group and user right shall not exceed group rights limit.

Add User			×
User Name		Reuseable	
Password			
Confirm			
Group	admin	•	
Memo			
Authority			
🔽 All			
CtrPan Shutdo Monito Monito Monito Monito Monito Monito Monito Monito Monito Monito Monito Monito Monito	el wn r r_CH01 r_CH02 r_CH03 r_CH04 r_CH05 r_CH05 r_CH06 r_CH06 r_CH07 r_CH07 r_CH08 r_CH09 r_CH10 r_CH10 r_CH11 r_CH12 r_CH13 r_CH13 r_CH14 r_CH15 r CH14 r_CH15	Cancel	

Record Control

Record control interface is shown as in Figure 7-49.

Record control: Here you can enable record status for corresponding channel. Alarm output channel: Here you can select alarm output channel. DVR output channel can not support large overload. (It shall be less than 1A). Too heavy current may result in relay damage. Please use contactor if necessary.

Config	X
Device Config SYSTEM INFO VERSION HDD INFO LOG GENERAL ENCODE SCHEDULE SCHEDULE SCHEDULE	Record Control Mode All 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Schedule C
 NETWORK MULTI-DDRS FTP ALARM. DETECT FAN/TILT/ZOOM TOOL ADVANCED ACCONT RECORD CONTIROL. HDD MANAGEMENT AUTO MAINTAIN VIDEO MATRIX SNAP PICTURE 	Alarm Output Channel 1 2 3 4 5 6 Save Refresh

Figure 7-49

• HDD management

This function needs DVR device supported.

Please select the HDD first and then you can see the items on your right become valid. You can check the corresponding item here. See Figure 7-50.

After you completed setup, please click control HDD button, you can see the DVR begins restarting.





• Auto maintenance

Auto maintenance interface is shown as in Figure 7-51. Here you can enable auto reboot or auto delete old files function. (Need DVR supported)

Figure 7-51

• Video Matrix

Video matrix interface is shown as in Figure 7-52. Please note this function needs DVR supported.

Config						
Device Config SYSTEM INFO VERSION HDD INFO LOG SETTING GENERAL ENCODE SCHEDULE RS232 NETWORK MULTI-DDNS FTP ALARM. DETECT PAN/TILT/ZOOM TOOL AUVANCED ACCOUNT RECORD CONTROL HDD MANAGEMENT AUTO MAINTAIN SNAP PICTURE	Video Output Group 1 Group 2 Group 3 Group 4 Group 5 Group 6 Tour Alarm In Interval	1	2	3	4	

Figure 7-52

• Snap Picture

Snapshoot interface is shown as in Figure 7-53. Please note this function needs DVR supported.

Config						×
Device Config SYSTEM INFO VERSION WDD INFO DG IDG SETTING ENECODE FNCODE	☐ Web Enabl Device NO. Host IP Port State URL Image URL		. 0	Message	j sec.	
ENCODE CHEDULE CHECHULE CHECK MULTI-DDNS FTP ALARM. DETECT PAN/TILT/ZOOM TOOL ADVANCED ACCOUNT RECORD CONTROL HDD MANAGEMENT AUTO MAINTAIN VIDEO MATRIX SNAF FICTURE	Channel SNAP mode Bit Rate Frame Rate Resolution Quality Save as	Channel OI F Enable Snep_Timing CBR 2 F/S D1 High		Save	Refresh	

Figure 7-53

7.4 Search

Here you can select video type, channel number and time to search the file you want. Click search button, the interface is shown as below. See Figure 7-54

Please use page up/down key to view the search results.

Double click file name, you can view the file and system will automatically backup the image in you installation directory.

Sear	ch				
-Туре-		- Parameter			Operation
С. Б	Record				Carrah
÷ .		Begin Time	2008- 5- 4 💌	13:56:08	Sealch
O A	larm				
- · ·		End Time	2008- 5- 5 🔍	13:56:08	Download
0 M	1otion				
0.0	`ard	Channel	1		Playback
С. С.	aiu.	Channor		-	
OL	.ocal	Card Na			Open Local Record
		Lard No.	I	.	Open Local Necolu
Multin	le.channel P	lauback			
Muliup					
SZIN		3 _4 _5 8 NBI IB6	_ 6 7 8 an i me	End Time	Record Type
1	44451	20	08-5-4 13:0:0	2008-5-4 14:0:0	Common Be
2	44376	20	08-5-4 14:0:0	2008-5-4 15:0:0	Common Re
3	44440	20	08-5-4 15:0:0	2008-5-4 16:0:0	Common Re
4	44431	20	08-5-4 16:0:0	2008-5-4 17:0:0	Common Re
5	44199	20	08-5-4 17:0:0	2008-5-4 18:0:0	Common Re
	44100	20			
6	44460	20	08-5-4 18:0:0	2008-5-4 19:0:0	Common Re
6 7	44460	20	08-5-4 18:0:0 08-5-4 19:0:0	2008-5-4 19:0:0 2008-5-4 20:0:0	Common Re Common Re
6 7 8	44460 44464 44486	20 20 20 20	08-5-4 18:0:0 08-5-4 19:0:0 08-5-4 20:0:0	2008-5-4 19:0:0 2008-5-4 20:0:0 2008-5-4 21:0:0	Common Re Common Re Common Re
6 7 8 9	44460 44464 44486 44450	20 20 20 20 20	08-5-4 18:0:0 08-5-4 19:0:0 08-5-4 20:0:0 08-5-4 21:0:0	2008-5-4 19:0:0 2008-5-4 20:0:0 2008-5-4 21:0:0 2008-5-4 22:0:0	Common Re Common Re Common Re Common Re
6 7 8 9 10	44460 44464 44486 44450 44604	20 20 20 20 20 20 20	08-5-4 18:0:0 08-5-4 19:0:0 08-5-4 20:0:0 08-5-4 21:0:0 08-5-4 22:0:0	2008-5-4 19:0:0 2008-5-4 20:0:0 2008-5-4 21:0:0 2008-5-4 22:0:0 2008-5-4 23:0:0	Common Re Common Re Common Re Common Re Common Re
6 7 8 9 10 11	44460 44464 44486 44450 44604 44585	20 20 20 20 20 20 20 20 20	08-5-4 18:0:0 08-5-4 19:0:0 08-5-4 20:0:0 08-5-4 21:0:0 08-5-4 22:0:0 08-5-4 22:0:0	2008-5-4 19:0:0 2008-5-4 20:0:0 2008-5-4 21:0:0 2008-5-4 22:0:0 2008-5-4 23:0:0 2008-5-5 0:0:0	Common Re Common Re Common Re Common Re Common Re Common Re
6 7 8 9 10 11 12	44460 44464 44486 44450 44604 44585 44351	20 20 20 20 20 20 20 20 20 20 20	08-5-4 18:0:0 08-5-4 19:0:0 08-5-4 20:0:0 08-5-4 21:0:0 08-5-4 22:0:0 08-5-4 22:0:0 08-5-4 23:0:0 08-5-5 0:0:0	2008-5-4 19:00 2008-5-4 20:00 2008-5-4 21:0:0 2008-5-4 22:0:0 2008-5-4 23:0:0 2008-5-5 0:0:0 2008-5-5 1:0:0	Common Re Common Re Common Re Common Re Common Re Common Re Common Re
6 7 8 9 10 11 12 13	44460 44464 44486 44450 44604 44585 44351 44382	20 20 20 20 20 20 20 20 20 20 20 20	08-5-4 18:0:0 08-5-4 19:0:0 08-5-4 20:0:0 08-5-4 21:0:0 08-5-4 22:0:0 08-5-4 23:0:0 08-5-5 0:0:0 08-5-5 1:0:0	2008-5-4 19:00 2008-5-4 20:00 2008-5-4 21:0:0 2008-5-4 22:0:0 2008-5-4 23:0:0 2008-5-5 0:0:0 2008-5-5 1:0:0 2008-5-5 1:0:0	Common Re Common Re Common Re Common Re Common Re Common Re Common Re
6 7 8 9 10 11 12 13 13	44460 44464 44486 44450 44604 44585 44351 44382 44475	20 20 20 20 20 20 20 20 20 20 20 20 20 2	08-5-4 18:0:0 08-5-4 19:0:0 08-5-4 20:0:0 08-5-4 21:0:0 08-5-4 22:0:0 08-5-4 23:0:0 08-5-5 0:0:0 08-5-5 1:0:0 08-5-5 2:0:0	2008-5-4 19:00 2008-5-4 20:00 2008-5-4 21:0:0 2008-5-4 22:0:0 2008-5-4 23:0:0 2008-5-5 0:00 2008-5-5 1:0:0 2008-5-5 1:0:0 2008-5-5 3:0:0	Common Re Common Re Common Re Common Re Common Re Common Re Common Re Common Re
6 7 8 9 10 11 12 13 14 15	44460 44464 44486 44450 44450 44604 44585 44351 44382 44475 44498	20 20 20 20 20 20 20 20 20 20 20 20 20 2	08-5-4 18:0:0 08-5-4 19:0:0 08-5-4 20:0:0 08-5-4 21:0:0 08-5-4 22:0:0 08-5-4 23:0:0 08-5-5 0:0:0 08-5-5 1:0:0 08-5-5 2:0:0 08-5-5 3:0:0	2008-5-4 19:00 2008-5-4 20:00 2008-5-4 21:00 2008-5-4 22:00 2008-5-4 22:00 2008-5-5 0:00 2008-5-5 0:00 2008-5-5 1:00 2008-5-5 2:00 2008-5-5 3:00 2008-5-5 4:00	Common Re Common Re Common Re Common Re Common Re Common Re Common Re Common Re Common Re
6 7 8 9 10 11 12 13 14 15 16	44460 44464 44464 44486 44450 44604 44585 444585 444585 444382 44475 44498 44448	20 20 20 20 20 20 20 20 20 20 20 20 20 2	08-5-4 18:0:0 08-5-4 19:0:0 08-5-4 20:0:0 08-5-4 20:0 08-5-4 20:0 08-5-5 0:0:0 08-5-5 0:0:0 08-5-5 1:0:0 08-5-5 2:0:0 08-5-5 3:0:0 08-5-5 4:0:0	2008-5-4 19:00 2008-5-4 20:00 2008-5-4 21:00 2008-5-4 22:00 2008-5-4 22:00 2008-5-5 0:00 2008-5-5 1:00 2008-5-5 1:00 2008-5-5 2:00 2008-5-5 3:00 2008-5-5 4:00 2008-5-5 5:00	Common Re Common Re
6 7 9 10 11 12 13 14 15 16 17	44460 44464 44460 44450 44604 44585 444585 44351 44382 44475 44498 44447	20 20 20 20 20 20 20 20 20 20 20 20 20 2	08-5-4 18:0:0 08-5-4 19:0:0 08-5-4 20:0:0 08-5-4 22:0:0 08-5-4 22:0:0 08-5-5 0:0:0 08-5-5 1:0:0 08-5-5 1:0:0 08-5-5 3:0:0 08-5-5 3:0:0 08-5-5 5:0:0	2008-5-4 19:00 2008-5-4 20:00 2008-5-4 21:00 2008-5-4 22:00 2008-5-4 22:00 2008-5-5 0:00 2008-5-5 1:00 2008-5-5 1:00 2008-5-5 2:00 2008-5-5 3:00 2008-5-5 4:00 2008-5-5 5:00	Common Re Common Re

Figure 7-54

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

The playback bar is shown as below. See Figure 7-55.

- 1: Play
- 2: Pause
- 3: Stop
- 4: Slow play
- 5: Fast play



Figure 7-55

7.4.1 Download

You can select one or more files you want to download and then click down load button. System pops up a dialogue box asking you specify directory. See Figure 7-56.

Save As	<u>? ×</u>
Save jn: 🗨 Local Disk (E:)	- 🔁 🖆 🎟 -
Document On James	
idvr idvr	
iDVRData 🔁	
File <u>n</u> ame:	<u>S</u> ave
Save as type: day Files(*.day)	Cancel

Figure 7-56

Then you can input file name and click save to backup file in your local pc. During the download process, there is a process bar for you reference and you can see download button becomes stop button. See Figure 7-57.

Туре-		- Parameter -		Op	eration
ΘB	ecord	Begin Time	2008, 5, 4	13:56:08	Search
	arm				
-		End Time	2008- 5- 5	13:56:08 🖃 🔍	Stop
ОМ	otion				
O Ca	ard	Channel	1 💌	1 _	Playback
~ .	.				
O Lo	cal	Card No.			Open Local Record
LA DO D					
Multiple	e-channel P	аураск			
- M 1 Szin		3 4 5 INBL 1	_6 _7 _8— ≾eqin ⊔me	End Time	Becord Type
1	44451		2008-5-4 13:0:0	2008-5-4 14:0:0	Common Be
2	44376		2008-5-4 14:0:0	2008-5-4 15:0:0	Common Be
3	44440		2008-5-4 15:0:0	2008-5-4 16:0:0	Common Be
4	44431		2008-5-4 16:0:0	2008-5-4 17:0:0	Common Re
5	44199		2008-5-4 17:0:0	2008-5-4 18:0:0	Common Re
6	44460		2008-5-4 18:0:0	2008-5-4 19:0:0	Common Re
7	44464		2008-5-4 19:0:0	2008-5-4 20:0:0	Common Re
8	44486	:	2008-5-4 20:0:0	2008-5-4 21:0:0	Common Re
9	44450		2008-5-4 21:0:0	2008-5-4 22:0:0	Common Re
10	44604		2008-5-4 22:0:0	2008-5-4 23:0:0	Common Re
11	44585		2008-5-4 23:0:0	2008-5-5 0:0:0	Common Re
12	44351		2008-5-5 0:0:0	2008-5-5 1:0:0	Common Re
13	44382		2008-5-5 1:0:0	2008-5-5 2:0:0	Common Re
14	44475		2008-5-5 2:0:0	2008-5-5 3:0:0	Common Re
15	44498		2008-5-5 3:0:0	2008-5-5 4:0:0	Common Re
16	44448	;	2008-5-5 4:0:0	2008-5-5 5:0:0	Common Re
17	44447		2008-5-5 5:0:0	2008-5-5 6:0:0	Common Re
	44447		2008-5-5 5:0:0	2008-5-5 6:0:0	Lommon Re

Figure 7-57

7.5 Alarm

Here you can set alarm type and alarm prompt audio file. See Figure 7-58.

Alarn						×
Event Type Extern Alar Video Loss Motion Dete Disk Full Disk Error Video Mask	m	Operat M V Alarm Soun	ion essage P ideo Pop Sound ound Pop d path	op-up -up		»
Time	Device	Name	Event 1	'ype	Alarm Port/Channel	

Figure 7-58

7.6 About

Click about button, you can view current web client information. See Figure 7-59.



Figure 7-59

7.7 Log out

Click log out button, system goes back to log in interface. See Figure 7-60.



Figure 7-60

7.8 Un-install Web Control

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

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

8 Enterprise Professional Surveillance System

In this chapter, we introduce how to add devices and how to enable monitor function. For detailed operation, please refer to enterprise professional enterprise surveillance system user's manual.

8.1 Log in

Double click enterprise profession surveillance platform icon (²⁸). If it is your first time to use the system, you can see the following interface. See Figure 8-1.

This is the firs this program, pl language you wan	t time you run ease select the t to use:
English	

Figure 8-1

After selecting a language, you can see the following interface. Here you can input user name and password to log in you selected server. The log in interface is shown as in Figure 8-2.

If it is your first time to use the system, you need to click add button to add a device first. Default central control server name is Local.

System default username and password both are admin.

Note:

For security reasons please modify your password after you first logged in.

đ	3	Vser		admin		
CAN.	10	Passwo	ord	***		
				Save Pass	word	
			Prep	are for loggi	na in	
			00005	ر م	07	Consel
				L.		Cancer
le	et Logia	n Serve	r			
SN	Serve	r Name	Serv	er IP address	Server Por	t Number
	Local		10.10	0. 2. 131	39999	
	275					
A	aa 🛛 🗍	Edit		elete I.I	ear i	Advanced '

Figure 8-2

8.2 Enable Monitor

After successfully logged in, please select the device and then click

connect/disconnect button (\square) .

Select the channel you wan to view, click connect/disconnect button (again.

	💆 Enterprise Pro Surveillance Platform(Business) 🛛 Ver4.6.0.0 (build 2008-03-26)(UnRegister)	
Section 1	Enterprise Pro Surveillance System	Data Flux: 224Kbp Section 5
Section 2	DVRQU#~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	PTZ dd C Color Plan Device List DVR2 DVR3 VVR3_4 VVR3_4 VVR3_4 VVR3_5 VVR3_5 VVR3_5 VVR3_6 VVR3_7 VVR3_6 VVR3_7 VVR3_6 VVR3_7 VVR3_6 VVR3_7 VVR3_6 VVR3_7 VVR3_6 VVR3_7 VVR3_6 VVR3_7 VVR3_6 VVR3_7 VVR3_6 VVR3_7 VVR3_6 VVR3_6 VVR3_7 VVR3_6 VVR3_7 VVR3_6 VVR3_7 VVR3_6 VVR3_7 VVR3_6 VVR3_6 VVR3_7 VVR3_6 VVR3_6 VVR3_6 VVR3_6 VVR3_6 VVR3_6 VVR3_7 VVR3_6 VVR3_6 VVR3_6 VVR3_6 VVR3_6 VVR3_6 VVR3_7 VVR3_6 VV
Section 3		
Section 4	Notify: 09:24:44 [DVR3] The device is connected.	

There are totally six sections:

- Section 1: There are eight function keys: monitor, E-map, record, save, alarm, configuration, log and system.
- Section 2: Here is for you to view channel video.
- Section 3: Here is for you to select display mode. System supports various display modes. HD item is for you to select priority between real-time and video fluency.
- Section 4: Here is for you to view current help information.
- Section 5: Here is to display data flux and CPU status.
- Section 6: There are four function buttons: PTZ, color, device, and plan. Please note system only supports one window in full-screen. Here we recommend resolution 1024*768.

Select a device name and then click connect/disconnect button, you can connect current device to network. You can see a little red -cross below the name disappeared.

Click one window on you left side and then double click channel name on you right hand, you can see the corresponding video in current window.

Please refer to Figure 8-4 for connection/disconnection information.



Figure 8-4

8.3 Add New Device

Click configuration button, you can see a network management unit shown as in Figure 8-5.

There are five function buttons, from left to right: device management, user manager, E-map, device configuration and upgrade.

ganization	Device List					Device.
Organization Definition Building 1	Device Name DVR2 DVR3 DVR	IP Address 10. 10. 3. 16 60. 191. 94. 122 10. 10. 5. 80	Port Number 37777 37777 37777 37777	User Name admin wf admin	Channel Amount 8 8 8	'∰ Device List '∰ DVR2 '∰ DVR3 ⊮ ∰ Building 1
Add Edit Delete	Expo	rt Impo	rt Ad	ia –	Edit Delete	

Figure 8-5

•

9 RS232 Operation

9.1 Network Connection

Before serial port operation, please connect matrix with DVR through RS232. Then set DVR serial port protocol to the corresponding matrix protocol. Note: please contact you local retail to confirm the DVR supports matrix protocol or not.

9.2 Keyboard

Control keyboard is very convenient for multi-DVR control, menu options and PTZ control. Select **keyboard control** from system **setting**>**RS232** >**function, and then** set **concerning** attributes such as protocol. Connect DVR RS232 port to shifter 25-pin RS232 port and then set proper control addresses for all connected DVRs. Now you can input DVR control address and use keyboard keys to set menu or control PTZ. See Figure 9-1.





Figure 9-1

10 FAQ

1. DVR can not boot up properly.

There are following possibilities:

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

2. DVR often automatically shuts down or stop running.

There are following possibilities:

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

3. System can not detect hard disk.

There are following possibilities:

- HDD is broken.
- HDD ribbon is damaged.
- HDD cable connection is loose.

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

There are following possibilities:

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

5. Real-time video color is distorted.

- When using BNC output, NTSC and PAL setup is not correct. The real-time video becomes black and white.
- DVR and monitor resistance is not compatible.
- Video transmission is too long or degrading is too huge.
- DVR color or brightness setup is not correct.

6. Can not search local records.

There are following possibilities:

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

7. Video is distorted when searching local records.

There are following possibilities:

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

8. There is no audio when monitor.

There are following possibilities:

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

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

There are following possibilities:

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

10. Time display is not correct.

There are following possibilities:

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

11. DVR can not control PTZ.

- Front panel PTZ error
- PTZ decoder setup, connection or installation is not correct.
- Cable connection is not correct.
- PTZ setup is not correct.
- PTZ decoder and DVR protocol is not compatible.
- PTZ decoder and DVR address is not compatible.

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

12. Motion detection function does not work.

There are following possibilities:

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

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

There are following possibilities:

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

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

There are following possibilities:

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

15. Network connection is not stable.

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

16. Burn error /USB back error.

There are following possibilities:

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

17. Keyboard can not control DVR.

There are following possibilities:

- DVR serial port setup is not correct
- Address is not correct
- When there are several switchers, power supply is not enough.
- Transmission distance is too far.

18. Alarm signal can not been disarmed.

There are following possibilities:

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

19. Alarm function is null.

There are following possibilities:

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

20. Remote control does not work.

There are following possibilities:

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

21. Record storage period is not enough.

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

22. Can not playback the downloaded file.

There are following possibilities:

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

23. Forget local menu operation password or network password

Please contact your local service engineer or our sales person for help. We can guide you to solve this problem.

Slight difference may be found in user interface.

All the designs and software here are subject to change without prior written notice.

Please visit our website for more information.

Appendix A HDD Capacity Calculation

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

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

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

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

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

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

In the formula:

 h_i means the recording time for each day (hour)

 D_i means number of days for which the video shall

be kept

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

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

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

DVR

Step 4: According to Formula (4) to calculate total capacity (accumulation) q_T that is

needed for all channels in DVR during **alarm video recording (including motion detection)**.

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

In the formula: a% means alarm occurrence rate

Appendix B Compatible USB Drive List

NOTE: Please upgrade the DVR firmware to latest version to ensure the accuracy of the table below. If you use the USB drive, please confirm the format FAT or FAT32.

Manufacturer	Model	Capacity
Sandisk	Cruzer Micro	512M
Sandisk	Cruzer Micro	1G
Sandisk	Cruzer Micro	2G
Sandisk	Cruzer Freedom	256M
Sandisk	Cruzer Freedom	512M
Sandisk	Cruzer Freedom	1G
Sandisk	Cruzer Freedom	2G
Kingston	DataTraveler II	1G
Kingston	DataTraveler II	2G
Kingston	DataTraveler	1G
Kingston	DataTraveler	2G
Maxell	USB Flash Stick	128M
Maxell	USB Flash Stick	256M
Maxell	USB Flash Stick	512M
Maxell	USB Flash Stick	1G
Maxell	USB Flash Stick	2G
Kingax	Super Stick	128M
Kingax	Super Stick	256M
Kingax	Super Stick	512M
Kingax	Super Stick	1G
Kingax	Super Stick	2G
Netac	U210	128M
Netac	U210	256M
Netac	U210	512M
Netac	U210	1G
Netac	U210	2G
Teclast	Ti Cool	128M
Teclast	Ti Cool	256M
Teclast	Ti Cool	512M
Teclast	Ti Cool	1G
Teclast	Ti Cool	2G

Appendix C Compatible CD/DVD Burner List

NOTE: Please upgrade the DVR firmware to latest version to ensure the accuracy of the table below. And you can use the USB cable with the model recommended to set USB burner.

Manufacturer	Model	Interface	Туре
Sony	DRU-835A	IDE	DVD-RW
Sony	DW-Q120A	IDE	DVD-RW
Sony	DW-G120A	IDE	DVD-RW
Sony	CRX-230AE	IDE	CD-RW
Sony	CRX-320A	IDE	CD-RW
Sony	CRX-225E	IDE	CD-RW
BenQ	DW2000	IDE	DVD-RW
BenQ	DW1670	IDE	DVD-RW
BenQ	DW1650	IDE	DVD-RW
BenQ	DW1640	IDE	DVD-RW
BenQ	5232W	IDE	CD-RW
Samsung	TS-H652M	IDE	DVD-RW
Sony	AW-G170S	SATA	DVD-RW
Samsung	TS-H653A	SATA	DVD-RW
Panasonic	SW-9588-C	SATA	DVD-RW
Sony	DRX-S50U	USB	DVD-RW
BenQ	5232WI	USB	DVD-RW

Appendix D Compatible SATA HDD List

NOTE: Please upgrade the DVR firmware to latest version to ensure the accuracy of the table below. And SATA HDD should be used for the DVR with SATA port.

Manufacturer	Series	Model	Capacity	Туре
Seagate	Barracuda.10	ST3750640AS	750G	SATA
Seagate	Barracuda.10	ST3500630AS	500G	SATA
Seagate	Barracuda.10	ST3400620AS	400G	SATA
Seagate	Barracuda.10	ST3320620AS	320G	SATA
Seagate	Barracuda.10	ST3250620AS	250G	SATA
Seagate	Barracuda.10	ST3250820AS	250G	SATA
Seagate	Barracuda.10	ST3160815AS	160G	SATA
Seagate	Barracuda.10	ST380815AS	80G	SATA
Seagate	Barracuda.9	ST3160811AS ₂	160G	SATA
Seagate	Barracuda.9	ST3120811AS ₂	120G	SATA
Seagate	Barracuda.9	ST380811AS ₂	80	SATA
Seagate	Barracuda.9	ST380211AS ₂	80G	SATA
Seagate	Barracuda.11	ST3750330AS	750G	SATA
Seagate	Barracuda.11	ST3500320AS	500G	SATA
Maxtor	DiamondMax 20	STM3320820AS	320G	SATA
Maxtor	DiamondMax 20	STM3250820AS	250G	SATA
Maxtor	DiamondMax 21	STM3160211AS	160G	SATA
Maxtor	DiamondMax 21	STM380211AS	80G	SATA
Maxtor	DiamondMax 21	STM340211AS	40G	SATA
Western Digital	Cariar SE	WD3200JD	320G	SATA
Western Digital	Cariar SE	WD3000JD	300G	SATA
Western Digital	Cariar SE	WD2500JS	250G	SATA
Western Digital	Cariar SE	WD2000JD	200G	SATA
Western Digital	Cariar SE	WD1600JD	160G	SATA
Western Digital	Cariar SE	WD1600JS	160G	SATA
Western Digital	Cariar SE	WD1200JS	120G	SATA
Western Digital	Cariar SE	WD800JD	80G	SATA
Western Digital	Cariar	WD1600AABS ₂	160G	SATA
Western Digital	Cariar	WD800BD	80G	SATA
Western Digital	Cariar SE16	WD7500KS ₂	750G	SATA
Western Digital	Cariar SE16	WD5000KS2	500G	SATA
Western Digital	Cariar SE16		400G	SATA
Western Digital	Cariar SE16	WD3200KS ₂	320G	SATA
Western Digital	Cariar SE16	WD2500KS2	250G	SATA

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