

H.264DVR

DIGITAL VIDEO RECORDER

USER'S MANUAL



CAUTIONS

- ◉ In order to ensure your rights and interests, please read the manual carefully before installation of your DVR.
- ◉ Use the appropriate power adapter for the DVR.
- ◉ To protect the main chipset from thunder damage, please make sure the ground wire is correctly connected before using DVR.
- ◉ Do not expose DVR to rain or moisture.
- ◉ The DVR cannot be installed at the place with dust. And avoid potential mechanical vibration or impact.
- ◉ Install the DVR under good air circulation conditions. Do not place it near to heater or under direct sunlight.
- ◉ Please choose high quality hard disk which could meet the working demand of DVR.
- ◉ For its quality, please purchase hard disk from regular merchants. And do not use the Western Digital hard disk.

- Before connecting to other facilities, please disconnect the power supply and pull the power plug out from the power socket.
- In case of any solid or liquid coming into the case, please disconnect the power supply immediately. And the DVR can be restarted only after being checked by qualified person.
- If the DVR is not in use for a long time, please disconnect the power supply and pull the power plug out from the power socket.
- This is precise instrument. NO internal part can be repaired by the users. If default occurs, it is necessary to ask qualified person to repair it or contact the dealer for the solution.

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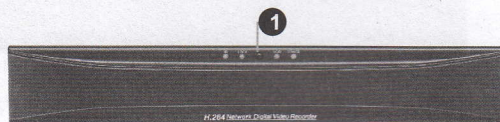
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Chapter 1 Panel Introduction

1.1 Description of front panel

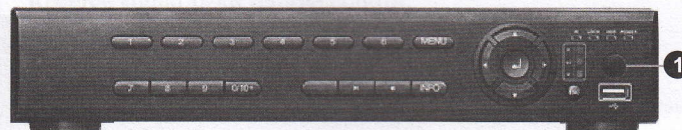
Type A front panel:



Type B front panel:



Type C front panel:



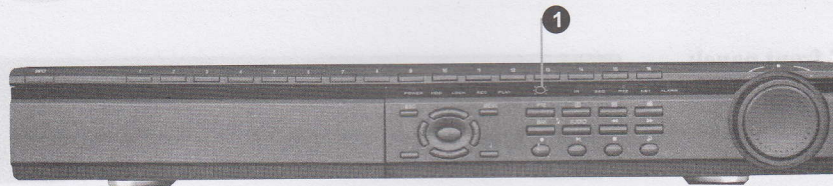
Type D front panel:



Type E front panel:










Type F front panel:



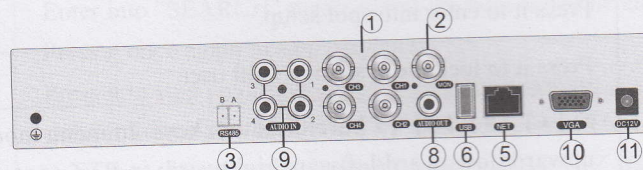
Name	Symbol	Description
Status indicator	POWER	It is red in running mode, it is green in standby mode. It is off in power off mode.
	HDD	Hard drive LED indicator light. It will flash when the HDD is being used.
	LOCK	Lock LED indicator light. It is on in locking mode.
	REC	Record LED indicator light. It is on in recording mode.
	PLAY	Play indicator light. It is on in playback mode.
	IR	Remote signal receiver LED indicator light. It is on in remote control usable mode.
	SEQ	Channel sequence LED indicator light. It is on in channel sequence mode.
	PTZ	PTZ control LED indicator light. It is on in PTZ control mode.
	NET	Network LED indicator light. It is on in network connection mode.
	ALARM	Alarm LED indicator light. It is on when alarm happens.
IR Receiver	①	Receive signal from remote control.
Number key	1 ~ 16 0/10 +	a) Press 1-16 to select channel. b) Press it once to input "0". Press it twice to input "10". Press it and other number to input number 10 plus. d) Press 1-9 to input password.

Recording key	●	Start recording.
Playback/ pause	▶	Enter into "SEARCH" menu, select the time schedule and press it to play the video, Press it once again to stop playback.
Stop	■	Press it to stop recording ,when it's under recording; press it to stop playback when it's under playback. Then it will go to "search menu"; Press it to view preset operation when it's under PTZ status.
Search	🔍	Press it to enter into SEARCH menu.
PTZ	PTZ	Press it to make PTZ control.
Backup	BAK(COPY)	Press it to enter into SEARCH menu.
Information	INFO	Press it one time to display the status bar on the top right of screen. Press it twice to check the systems' information. Press it three times to check the log list.
Exit	ESC	Press it to cancel the operation or turn back to previous menu.
SEQ	SEQ	Press it to shift the channel automatically.
Audio	AUDIO	Press it to enter into audio setup.

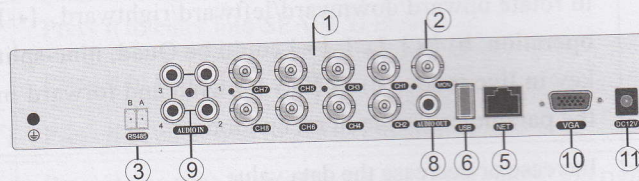
Main menu	MENU	Press it to enter into main menu.
Spot output	SPOT	Press it to enter into spot setup.
LOCK	LOCK	Press it to lock the system or shift user.
Direction / split/ confirm key	 	a) [▲] [▼] [◀] [▶] are direction keys. In menu mode, select the listed options upward/downward/leftward/rightward; in PTZ control mode, control the dome to rotate upward/downward/leftward/rightward. [↵] confirm the selection and operation. b) [▲] [↵] [▼] could be Quad, nine-split-screen and 16-split-screen key in live mode. c) [◀] [▶] rewind and forward in playback mode. Change the parameters value in menu mode.
+/-	+/-	Increase or decrease the data value.
Split key	  	Press it in live/record/playback mode to change the screen into four-split screen. Press it in live/record/playback mode to change the screen into nine-split screen. Press it in live/record/playback mode to change the screen into sixteen-split screen.
Shuttle		Turn the shuttle to select the menu or control the speed of playback. For example 2x, 4x, 8x .
USB port		For USB mouse or connect to USB disk to upgrade or backup.

1.2 Description of rear panel

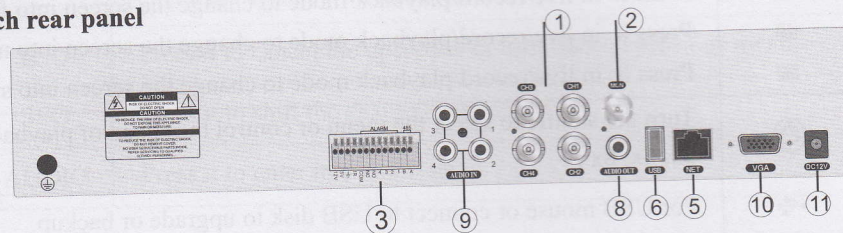
Type A 4ch rear panel



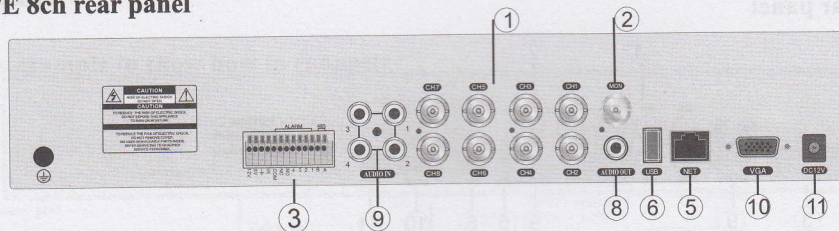
Type A 8ch rear panel



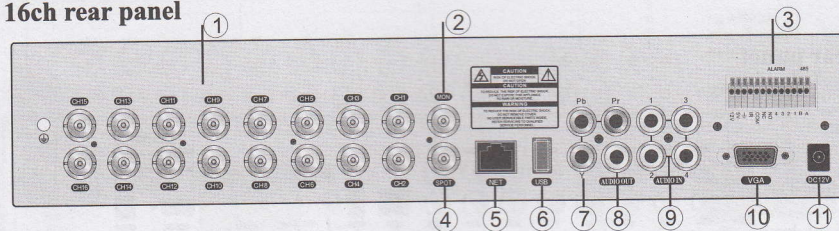
Type B/C/D /E 4ch rear panel



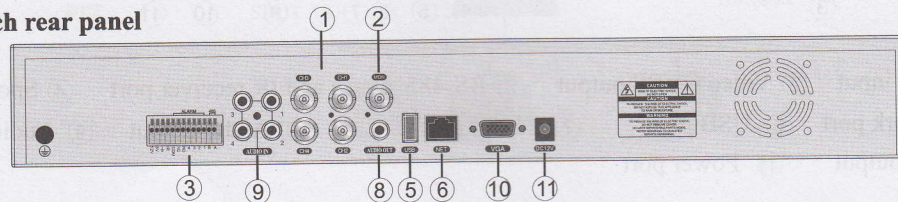
Type B/C/D/E 8ch rear panel



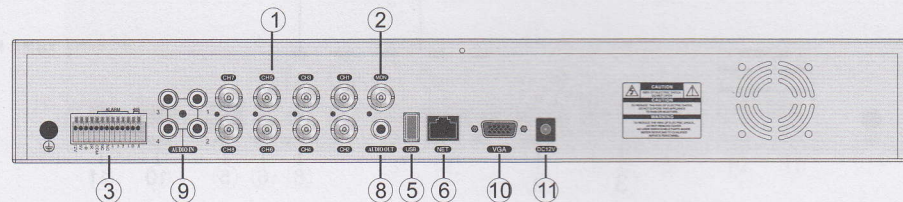
Type B/C/D 16ch rear panel



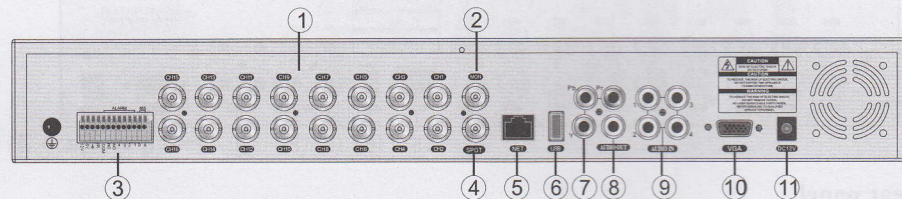
Type F 4ch rear panel



Type F 8ch rear panel



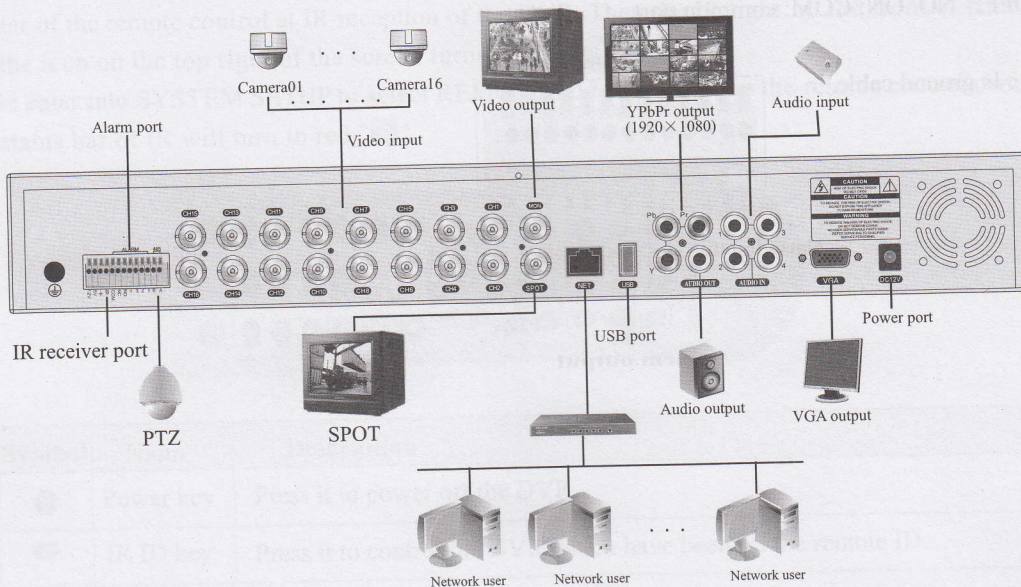
Type F 16ch rear panel



- ① Video input ② Video CVBS output ③ RS-485, alarm and IR receiver port ④ Spot output
 ⑤ Network port ⑥ USB port ⑦ YPbPr port ⑧ Audio output ⑨ Audio input
 ⑩ VGA output ⑪ Power port

1.3 Instruction of installation

Type F 16ch DVR as example to show how to connect:

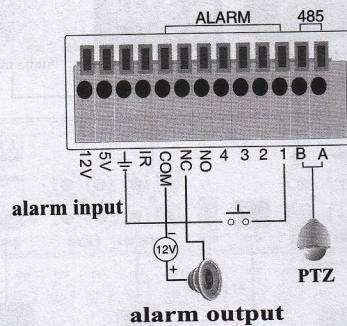


1.4 Instruction of alarm connection


1) 1-4 is alarm input. "NC/NO/COM" is relay output.

NC: OFF; NO: ON; COM: common port.

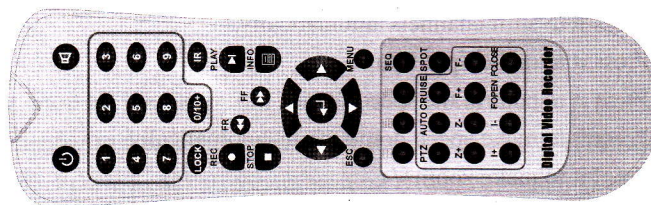
2) " \perp " : Is ground cable.









1.5 Instruction of remote control

Before using it, please make sure that batteries have been installed correctly. When using it, please aim IR transmitter of the remote control at IR reception of the DVR. Then the IR light in the front of panel power on and the icon on the top right of the screen turns to blue " ".

You could enter into SYSTEM SETUP to select REMOTE ID to be off. Then the remote control cannot work and the status bar of IR will turn to red " ".



No.	Symbol	Name	Description
1		Power key	Press it to power off the DVR.
2		IR ID key	Press it to control the DVR which have been set the remote ID.

No.	Symbol	Name	Description
3		Info key	Press it one time to display the status bar on the top right of screen. Press it twice. to check the systems' information. Press it three times to check the log list.
		4ch split	Press it to 4ch split.
		9ch split	Press it to 9ch split.
		16ch split	Press it to 16ch split.
4	SEQ	SEQ key	Press it to shift channels automatically.
	SPOT	Spot key	Press it to make Spot setup.
	PTZ	PTZ key	Press it to control the speed dome.
	AUTO	AUTO key	Press it to make speed dome rotate automatically.
	Z+/Z-	Zoom+/-	Press it to make zoom+/-.
	F+/F-	Focus+/-	Press it to make focus+/-.
	I+/I-	Iris+/-	Press it to make iris+/-.
5	CRUISE	Standby key	
	FOPEN		
	FCLOSE		

Chapter 2 Instruction of GUI

2.1 Power on









- ⊙ Please make sure that if the system connection is correct.
- ⊙ Please make sure the system format of DVR is the same as monitor's format.
- ⊙ Please plug the power cable in DVR.
- ⊙ When DVR power on, the power indicator light will turn to red.

2.2 Power off


- ⊙ Power off normally: Stop all the operation and back to preview status. Press the Power key "⊙" on remote control It will show the bar to confirm the operation. Press CONFIRM to finish it.
- ⊙ Un-normal power off: Please avoid all the un-normal power off. Such as cutting the power by removing the power plug from DVR.
- ⊙ Recover after power failure: If the DVR is under recording status, and then there is a power failure. It will save all the recorded file when you restart the DVR. Also the DVR will start recording automatically.

2.3 Live preview

When you start DVR normally, you will enter live preview interface. And then there are some icons displayed in the pictures. Please learn their meaning from the following table.

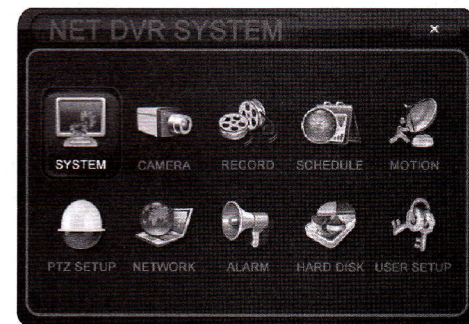
Symbol	Color	icon Descriptions	Symbol	Color	icon Descriptions
	Red M	Under motion recording		Red S	Under alarm recording
	Red L	Video loss during recording		Red T	Under timing recording
	Green I	Waiting for event to activate recording		Green L	Video loss during waiting recording
	Yellow ?	Have video input but no recording		Yellow L	No video input and recording

2.4 Menu

Press the[MENU] key in front panel or click the mouse tool bar " " to enter into main menu. And press [ESC] to exit from main menu.

If you want to modify the information in submenu, you could use remote control or mouse change it. When you modified the information, please click "SAVE" to save the operation and exit sub-menu.

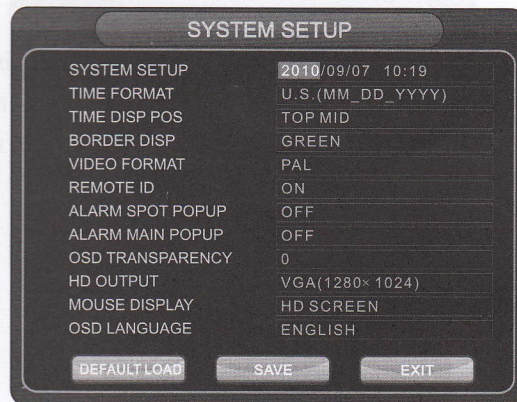
Press the right key of mouse to display mouse tool bar.



2.5 System setup

Select "SYSTEM" in main menu to enter into SYSTEM SETUP interface.

- 1) Time setup: To change system time.
- 2) Video format: To select PAL or NTSC format After the operation finished, the DVR will restart automatically.
- 3) IR ID: To set the remote ID NO. for the relevant DVR.
- 4) Call monitor alarm popup: If set it on, it will popup the picture in call monitor once there is alarm signal in any channel.
- 5) Main monitor alarm popup: If set it on, it will popup the picture in main monitor once there is alarm signal in any channel.
- 6) HD output: To select HD output mode: VGA(1280*1024). YPbPr,HDMI(1920*1080).
- 7) Mouse display: To select CVBS or HD monitor.
- 8) Default load: To restore the DVR to factory default. Once finish this operation, DVR will restart automatically.



- ◎ Please enter DISK MANAGEMENT to check the HDD information. Enter SCHEDULE SETUP to set recording mode and time segment.

- 1) Channel: To select the channel to set schedule.
- 2) Date: To set time schedule for recording. There are 4 time segments you could set in 1 day.
- 3) Time segment: To set recording time from beginning to end.

SCHEDULE SETUP			
CAMERA	ALL	ALL CAM <input checked="" type="checkbox"/>	
DAY	ALL	ALL DAY <input checked="" type="checkbox"/>	
	START TIME	END TIME	ALARM TYPE
SEGMENT1	00 00	24 00	TIME
SEGMENT2	00 00	00 00	TIME
SEGMENT3	00 00	00 00	TIME
SEGMENT4	00 00	00 00	TIME
SAVE		EXIT	

2.7 Recording start and stop

- ◎ Start recording: Press the [●] key in front panel or use mouse to click the icon "■" in mouse tool bar to start recording. Once start recording or HDD begin to write, the HDD indicate light will turn on.
- ◎ Press the [■] key in front panel or use mouse to click the icon "■" to stop recording.

2.8 Recording search, playback and backup

Press the [►] key in front panel to enter recording search interface. You could search for the recording file and back up the file into another devices. Also you could search for a video file to playback.

SEARCH MENU

VALID TIME	2010/09/30	TO	2010/10/10
BACKUP DEVICE	USB		
CH	01	CH 02	
CH	03	CH 04	
DATE	2010/10/10		
SIZE	M		
START TIME	09:55	END TIME	10:55

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

1
2
3
4

CALCULATE BACKUP PLAY EXIT

- 1) Valid time: From beginning to end of recording.
- 2) Select the channels to playback. There are some choice for playback. You could select 1 channel, 2 channels, 4 channels to playback here. And if you want playback 8ch and 16ch together, you could press the " " " " " key in front panel.
- 3) Backup devices: Our DVR support DVD-RW and USB disk backup. And the DVD disk's capacity should not exceed 1.5G.

- 3) Detection area: Select the motion detect area. Use the mouse to select the area. When it detect there is movement in this area, the boarder color will turn red.

2.10 Alarm setup

Enter alarm setup to proceed this operation.

The type of alarm popup: video loss alarm, motion detection alarm, external alarm.

Alarm mode: buzzer, relay, email

ALARM SETUP			
BUZZER	RELAY	E-MAIL	
CAMERA	LOSS	MOTION	SENSOR
01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
03	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
04	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
05	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
06	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
07	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
08	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SAVE		EXIT	

ALARM SETUP			
BUZZER	RELAY	E-MAIL	
CAMERA	LOSS	MOTION	SENSOR
09	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SAVE		EXIT	

2.11 Network setup

Enter Network setup to proceed the operation.

- 1) IP distribution: There are two type of IP, fixed IP and dynamic IP. When you click DHCP/DDNS, it will get IP

automatically. Gateway and subnet mask cannot be changed.
If the IP is 0, it means it failed to get IP automatically.

Then you should check if you set the network and router correctly.

- 2) DVR port: The default port is 6802 and it's changeable for users.
- 3) IE port: The default port is 0080 and it's changeable for users.

2.12 Email setup

Enter Network setup and click Email to proceed this operation.

- 1) Time interval: To set the time interval for sending email. It should be in denomination of minutes.
- 2) Email server name: To set the email server for sending email.
- 3) Email server port: To set the email server port.
- 4) User name: It's the email user name.
- 5) User password: It's the email password.
- 6) Password confirmation: To confirm your email password.
- 7) Receiving address: It's the email address.

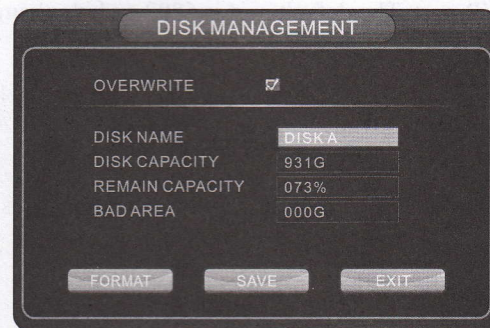
NETWORK SETTING	
IP ALLOCATION	DHCP/DDNS
IP ADDRESS	192 168 001 108
GATEWAY	192 168 001 001
SUBNET MASK	255 255 255 000
DNS1	202 096 134 133
DNS2	202 096 128 166
DVR PORT	6802
IE PORT	0080
<div>EMAIL SAVE EXIT</div>	

E-MAIL SETUP	
TIME INTERVAL	10 Min
E-MAIL SERVER ADDRESS	smtp.163.com
E-MAIL SERVER PORT	0025
USERNAME	dvrmail
PASSWORD	*****
PASSWORD CONFIRMATION	*****
RECIPIENT ADDRESS	*****@163.com
<div>TEST SAVE EXIT</div>	

2.13 HDD management

Enter Disk management to proceed this operation.

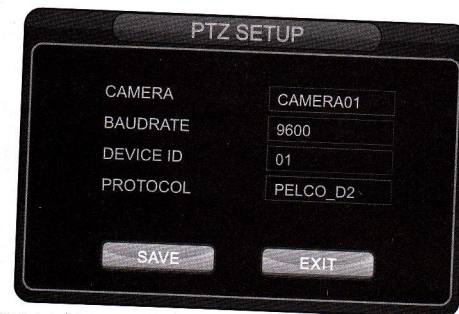
- 1) Overwrite: Select it to overwrite recorded video automatically when the HDD is full. If you didn't select it, it will stop recording when HDD is full. And system will remind you to select this function or format HDD if you want to continue recording.
- 2) Disk name: To check the disk information when you connect several HDD or USB disk.
- 3) Disk capacity: To show capacity of the HDD.
- 4) Remaining capacity: To show the remaining capacity of the HDD.
- 5) Bad area: To show the bad area capacity of the HDD.
- 6) Format: To delete all the recorded files.



2.14 PTZ setup

- ⊙ Set the ID of speed dome correctly.
- ⊙ Make sure if the A、B connector of speed dome is connected well with DVR's
- ⊙ Enter PTZ setup to proceed this operation:

- 1) Channel: To select the channel connected with speed dome.
- 2) Baud rate: To select the baud rate of the speed dome, 1200, 2400, 4800 and 9600.
- 3) Device ID: Default ID is the channel name.
- 4) Protocol: To select the communication protocol of speed dome, PELCO_P, PELCO_D1 and PELCO_D2.



- ⊙ After speed dome setup, please enter PTZ setup. Press the [PTZ] key to enter it. Then it will display "PTZ:CAM01 SPEED:16 DATA:00" in the screen. It means DVR is under PTZ status now. Press [PTZ] or [ESC] again to exit PTZ interface. When DVR is under PTZ status, it will display the mouse tool bar as below:



Icon	Descriptions	Icon	Descriptions
	Direction key, to move speed dome up, down, right and left		To make speed dome rotate automatically. Press it again to stop rotating.
	Zoom key		To check the preset data already saved.
	To make preset setup		Shut off PTZ and exit PTZ interface

- **Modify parameters:**

You could use mouse or remote control the modify the preset data. Select the item which you want to modify by press [SPOT] key on remote control or click the item directly by mouse. Then modify the data by pressing [MENU] [SEQ] on remote control or left/right click by mouse.

- **Preset setup:**

- 1) Select image point in selected camera by [▲] [▼] [◀] [▶] key. Set a number for the image point in DATA, such as 01. then press [MENU] key on remote control or click "MENU" icon to finish the setup.
- 2) To view of image point which has been saved, you could select the corresponding number in DATA. Then press [MENU] key on remote control or click "MENU" icon by mouse.

2.15 User setup

Before enter USER SETUP interface, you should enter USER LOGIN interface and type the correct password first.

- 1) User name: To select administrator and users. There are 4 user name, ADMIN0, USER01, USER02 and USER03. ADMIN0 is default one.
- 2) Password: To set user's password. The default password is 000000 for ADMIN0, 111111 for USER01, 222222 for USER02 and 333333 for USER03. And password is changeable by users.
- 3) Authority setup: As administrator, you could enter USER SETUP to grant normal user authority to make setup.

Unlock setup: If the DVR was locked, please click the "🔒" on right top of screen. Then it will popup the interface of USER LOGIN. Type the user name and password to unlock the DVR. Then the icon "🔒" will turn to blue "🔓".

USER LOGIN

USER NAME: ADMIN0

PASSWORD: 000000

0 1 2 3 4 5 6 7 8 9 C

OK EXIT

USER SETUP

USER NAME: ADMIN0

PASSWORD: 000000

MENU	<input checked="" type="checkbox"/>	SEQ	<input checked="" type="checkbox"/>
PTZ	<input checked="" type="checkbox"/>	SPOT	<input checked="" type="checkbox"/>
RECORD	<input checked="" type="checkbox"/>	PLAY	<input checked="" type="checkbox"/>
RECORD STOP	<input checked="" type="checkbox"/>	AUDIO	<input checked="" type="checkbox"/>

SAVE EXIT

2.16 User shift

Please enter USER LOGIN interface to shift the user and type correspond password.

2.17 Instruction of CMS

You could control the DVR via CMS. If you want learn details, please refer to " Client software instruction" attached in disk.

NOTE

- ⊙ The operation manual is for reference only. Products may vary.
- ⊙ Products are subject to update without further notice.
- ⊙ Please contact the customer service department for latest program and supplementary informaton.
- ⊙ Any disputes or doubts in products description are subject to our final explanation.