

Wall Mount
H.264DVR
DIGITAL VIDEO RECORDER
USER'S MANUAL



VERSION: 1.10

WARNING

Unauthorized reproduction of all or part of this manual is strictly prohibited.

The figures in this manual are for illustration purposes only (may differ from the actual product).

The specifications and design of the product are subject to change without prior notice for purposes of quality improvement.

CAUTIONS

To get the best use out of the product, be sure to read the cautions before using the product. For safety, please take note of the following:

Instructions before using the product

1. To prevent electric shock when installing, moving, or opening the DVR and peripheral devices, connect and disconnect the cables as instructed. All cables must be connected to grounded power outlets.
2. If the product is installed near a power outlet, make sure it can be unplugged easily.
3. Do not use the DVR in water or in wet places.
4. Keep the plastic packing materials used for the DVR or other peripheral devices out of reach of children (may cause suffocation).

Installation Environment of the DVR

1. Maintain the following conditions: operating temperature of 5 C ~ 40 C; operating humidity of 10% ~ 80%.
2. Install the DVR in a safe place that is free from external vibration.
3. Install the DVR in a well-ventilated place.
4. To protect the hard disk from data loss and breakdown, install the DVR away from magnetic materials.
5. When using a rack other than the standard one, use a separate table with sufficient spacing, i.e., 60cm from the floor, 50cm from the ceiling, and 20cm from the side and back walls and other objects.

Safety Notes on the DVR

1. When installing additional boards and HDD, separate the power cable and turn OFF power supplied to the DVR completely
2. Keep the product away from heat-generating devices such as heaters.
3. Do not use a damaged power cord.
4. To prevent problems due to magnetic interference and electric surge, use only grounded cables and power outlets.
5. If the power cord is connected, do not touch the power unit (if the power cord is connected, electric current is still flowing internally even after the switch is turned OFF).
6. Do not place a heavy object on top of the product.
7. Do not drop a conductive object in the ventilation holes.
8. Allot sufficient space for system cabling.
9. Use only the parts indicated in the manual. Do not disassemble, repair, or modify the product without permission.
10. Incorrect system setup may cause malfunction.
11. Shut down the system normally as instructed in the manual.

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Chapter 1 Panel Introduction

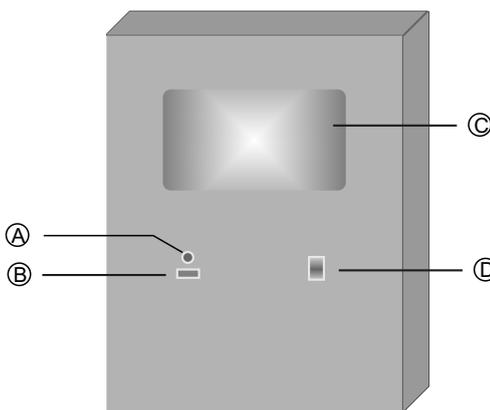
1.1 Description of front panel

A: Remote controller receiver

B: USB port

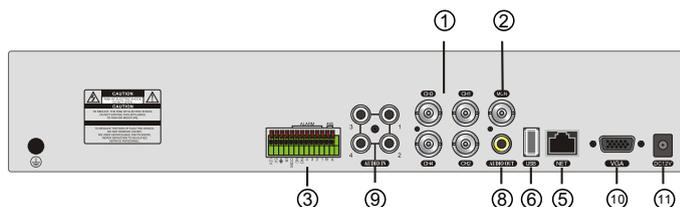
C: LCD screen

D: Screen ON/OFF switch

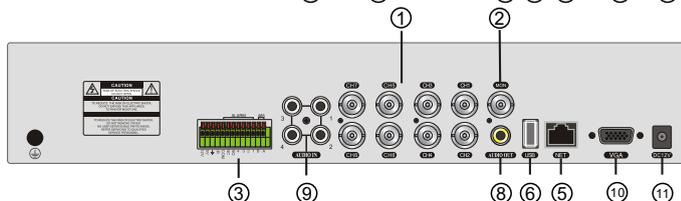


1.2 Description of button

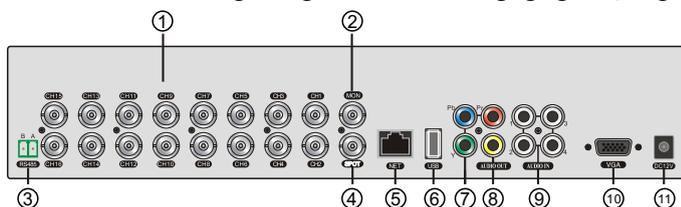
Button panel(4-ch)



Button panel(8-ch)



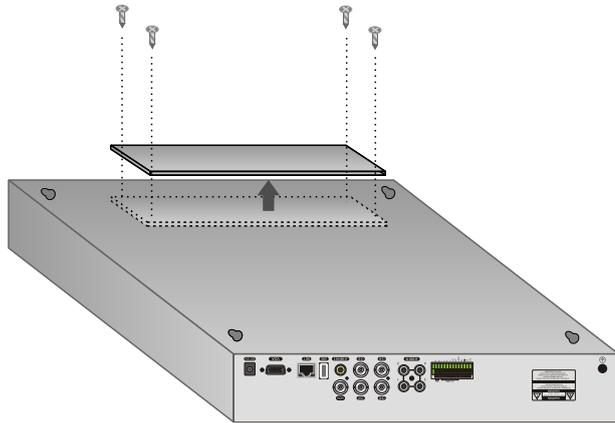
Button panel(16-ch)



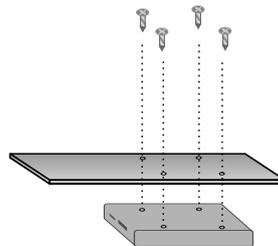
- 1. Video Input 2. Video CVBS output 3. RS-485, alarm and IR receiver port
- 4. Spot Output 5. Network Port(RJ45) 6. USB Port 7. YPbPr Port
- 8. Audio Output 9. Audio Input 10. VGA Output 11. Power Input(DC12V)

1.3 Hard Disk Drive Installation

- 1 Disconnect the power cable.
- 2 Turn the DVR over and open the cover bracket.

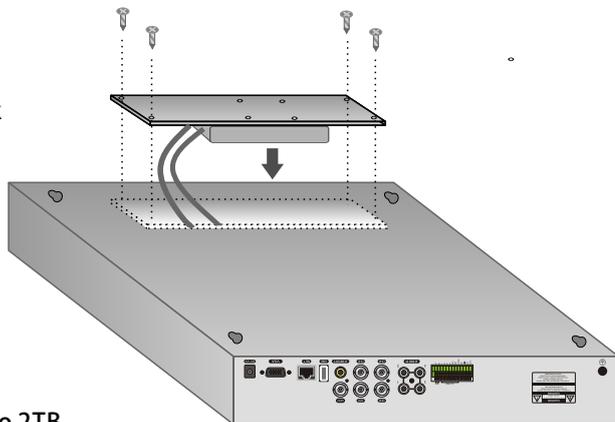


3. Mount the HDD properly on the bracket.



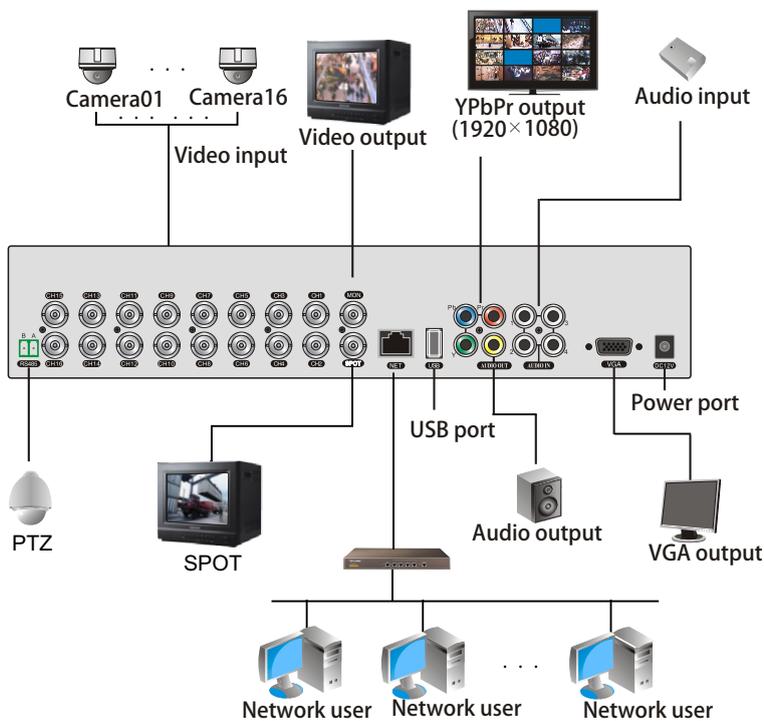
4. Connect the SATA data and power cable from Hdd to DVR.

5. Put the cover bracket with HDD back with screws



Note: 1. DVR can mount 1 pcs HDD up to 2TB.
2. Only 3.5" SATA HDD can be installed.

1.4 Connection Instructions

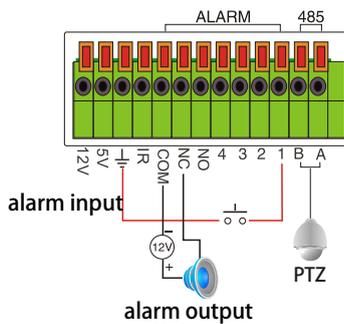


1.5 Alarm Connection Instructions

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

NC: OFF, NO: ON, COM: common port

2) "⏏": Is ground cable.



1.6 Remote Controller

1. Installing the remote control

Open the battery cover, install two batteries (Type No.7), make sure positive and negative poles are right, then close the battery cover.

2. Using the remote control

Before using it, please confirm that batteries have been installed correctly. When using it, please aim IR TX (transmitter) of the remote control at IR reception of the DVR. Then the IR light in the front panel will on and the icon on the top-right of the monitor screen turns to blue "📺" The DVR can be controlled by the remote control.

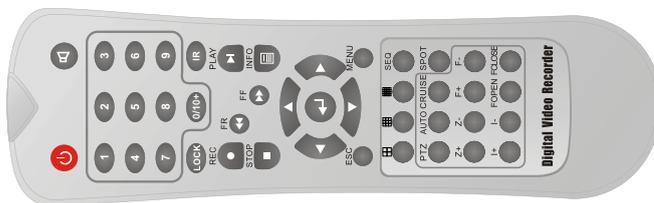
Note: If you don't want to use the remote control, you could set in the system setup menu.

Set the item REMOTE ID as OFF. Then the IR Receiver light in the front panel will be off and the operation of the remote control is invalid and the red icon "📺" displays on screen.

3. Trouble shooting

If the DVR can not be controlled by the remote control, please check the following aspects:

- i Check the positive and negative poles of the batteries.
- ii Check the electric quantity of the batteries.
- iii Check that whether Remote Sensor are blocked or not.
- iiii Whether Fluorescent lamps are being used or not nearby.



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.
4		16ch split	Press it to 16ch split.
	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- I+/I-	Focus+/- Iris+/-	Press it to make focus+/-. Press it to make iris+/-.
5	CRUISE	No Function	For future use
	FOPEN		
	FCLOSE		

1.7 USB mouse operations

USB mouse can be used. Hot swap for mouse is supported. Move the mouse cursor onto the mouse icon to see the name. Please insert the USB mouse into the USB port of the rear panel.

left click	<ol style="list-style-type: none"> 1 Select or cancel " " in the item. 2 Input password in user log in interface. 4 In split-screen mode, click one of the channels to make it full screen. Click it again to return to split-screen. Switch single channel screens. 5 Switch single channel screens.
Right click	<ol style="list-style-type: none"> 1 In live or playback mode, it could swich the single channel image. 2 In menu mode, it could modify the data. 3 To pop up the mouse tool icons
Move	<ol style="list-style-type: none"> 1 Move the cursor. 2 Move the cursor to the bottom of the screen to pop up the mouse tool bar. Move the cursor onto the icon to show the name.
Drag	<ol style="list-style-type: none"> 1 To select shield area in "Camera setup". 2 To select motion detection area in "Motion alarm".
Wheel	To change the value or digital in menu mode.

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 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 .



2.3 Recording setup

- ⊙ Before recording, please make sure all the devices power on and there must have video input. Also please test the audio input.
- ⊙ Press the [INFO] key in front panel twice to enter the interface of system information. Please check the HDD remaining capacity. If the remaining capacity is not enough. Please change t new one or set the HDD to overwrite mode.

If it is possible, you could enter MAIN MENU and select RECORDING SETUP to modify its setup.



1) Resolution: CIF resolution:352x288(PAL) 352x240(NTSC) D1 resolution: 720x576(PAL) 720x480(NTSC)

When change the resolution between CIF and D1, DVR will restart automatically.

2.4 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 .

2.5 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

2.6 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.

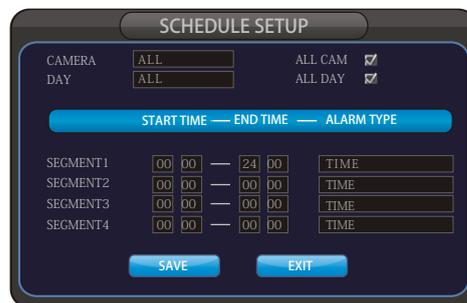
If you want to modify the information in submenu, you could use remote control or mouse change it. When you modified the information, please click "SAVE" to save the operation and exit sub-menu.

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



- 2) Image quality: To set the image quality at high, middle and low
 - 3) Frame rate: To modify the frame rate per second.
 - 4) Audio: To set audio recording on and off. It only support 4ch audio maximum
- ⊙ 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.



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 backup the file into another devices. Also you could search for a video file to play back.



- 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, 3 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 capacity should not exceed 1.5G.
- 4) Playback: Select the time segment you want to playback. Modify the beginning time and end time. Then click the "PLAY" to playback. Or you could use mouse to move the icon "♥" to select beginning time and move icon "▲" to select ending time. Finally click "PLAY" for playback.
- 5) Calculate: To calculate the video files capacity which you want to backup. Before you backup, please try to proceed this operation.
- 6) Backup: Before backup, please make sure if the backup devices are ready, for example, USB disk and DVD-RW. According to your need, you could select the channel name you want to backup. Then select the time segment in this channel. Finally please click BACKUP to confirm the operation. It will take several minutes. A confirmation message will show up after backup is finished and then move backup devices from DVR.
- 7) During backup, it will display some icons to show you playback status.



2.9 Motion setup

Enter Motion setup to proceed this operation.

- 1) Channel: Select the channels you need to set motion.
- 2) Sensitivity: Select number 1-10 for motion sensitivity.
Generally speaking, number higher, the sensitivity better.
- 3) Detection area: Select the motion detect area. Use the mouse to select the area. When it detect there is motion in this area, the boarder colour 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.



2.11 Network setup

Enter Network setup to proceed the operation.

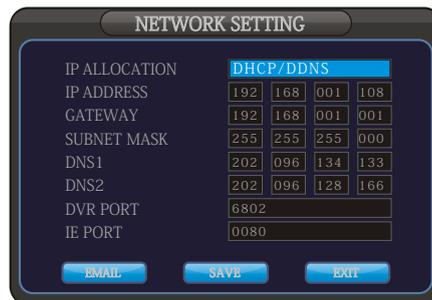
1) IP distribution: There are two type of IP, fixed IP and dynamic IP. When you click DHCP/DDNS, it will get the IP automatically. Gateway and subnet mask cannot be changed.

If the IP is 000.000.000, it means it failed to get IP automatically

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

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.



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 AB 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_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 controller, click “” 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 “” 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 names 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. Those passwords can be changed by users.
- 3) Authority setup: As administrator, you could enter USER SETUP to grant normal users 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 “”.



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.

ADVICES

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NOTES

All functions of full-edition model are described in this Manual.
Half-edition model is only equipped with some of its functions.

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.