

# **4CH MPEG4 DVR**

## **Quick Guide**

Please read instructions thoroughly before operation and retain it for future reference.

The image shown above may differ from the actual product appearance.

# 1. FRONT AND REAR PANELS

## 1.1 Front Panel

### 1) LED Indication

The following LEDs will be on when:

HDD: HDD is reading or recording

HDD Full: HDD is full.

ALARM: Once the alarm is triggered

TIMER: When timer recording is turned on

PLAY: Under playing status

REC: Under recording status

### 2) MENU

Press this button to enter / exit the DVR menu mode.

In the sub-layer of the DVR menu, press this button to confirm the settings and go back to the upper layer.

### 3) ENTER

Confirm the password entering.

### 4) REC

Press this button to activate manual recording.

### 5) LIST (Event List Search)

To quick search the recorded files by event list, press this button to show all types of the event lists.

Select one of the event list and press "ENTER" button to playback the selected file.

MANUAL: List the information of the manual-recorded files. The DVR will save one recorded file once any recording setting is changed

SYSTEM: List the information of the system-recorded files. The DVR system will save one recorded file every one hour.

MOTION: List the information of the motion-trigger-recorded files.

TIMER: List the information of the timer-recorded files.

### 6) SLOW

Under the playback mode, press this button to slowly playback the recorded file (by 1/4 speed or 1/8 speed).

### 7) ZOOM

In the live mode of the DVR, press this button to enlarge the image of the selected channel.

### 8) 田 / -

Press "田" button to show the 4 channel display modes.

Press "-" button to change the setting in the menu.

### 9) SEQ / +

Press "SEQ" button to activate the call monitor function, and press again to quit.

Press "+" button to change the setting in the menu.

### 10) Power

Press this button long enough to turn on/off your DVR.


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**Note:** Under the recording mode, please stop recording before turning off your DVR.

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### 11) 1 / 2 / 3 / 4

Press one of these buttons to show the channel display of CH1 ~ CH4 on the monitor.

12) 

Press this button to play the recorded video.

13) Pause / Stop / Rew / FF

Under the playback mode:

Press one of these button to pause / stop / rewind / fast-forward the playback file.

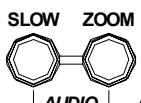
14) Up / Down / Left / Right

Press one of these direction buttons to move the cursor up/down/left/right.

Under the DVR menu mode, these direction buttons can use for the following operation:

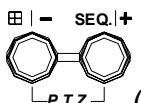
Up / Down: Make the selection / Change the settings

Left / Right: Make the selection



15) AUDIO (Audio)

Press these two buttons at the same time to select live or playback sounds of the audio channels.



16) PTZ (PTZ)

Press these two buttons at the same time to enter / exit the PTZ control mode.

In the PTZ control mode → Zoom in: Press "+" button ; Zoom out: Press "-" button

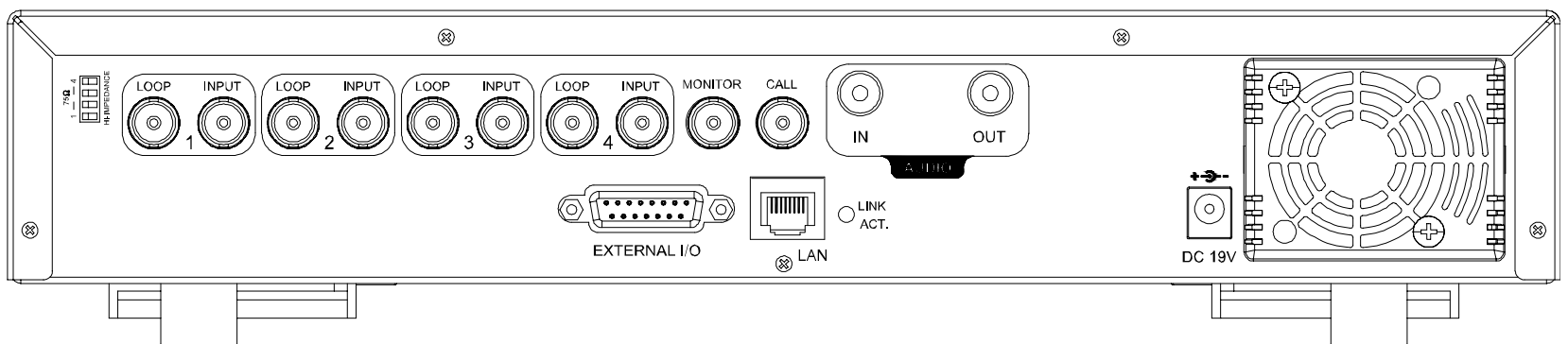
Adjust PTZ angle: Press direction buttons to turn up/down/left/right

17) "MENU" + "ENTER" (Key lock)

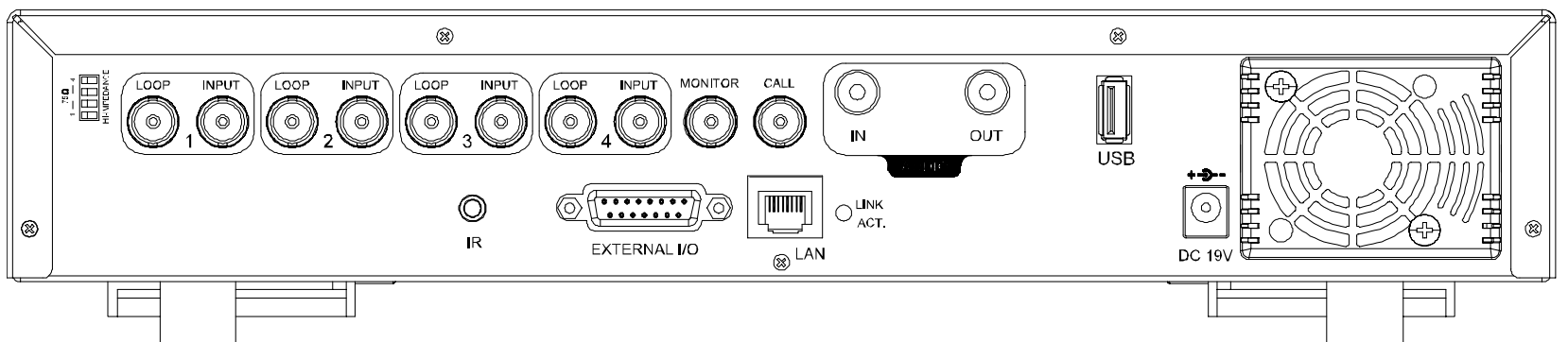
Press these two buttons at the same time to lock keys on the DVR front panel.

## 1.2 Rear Panel

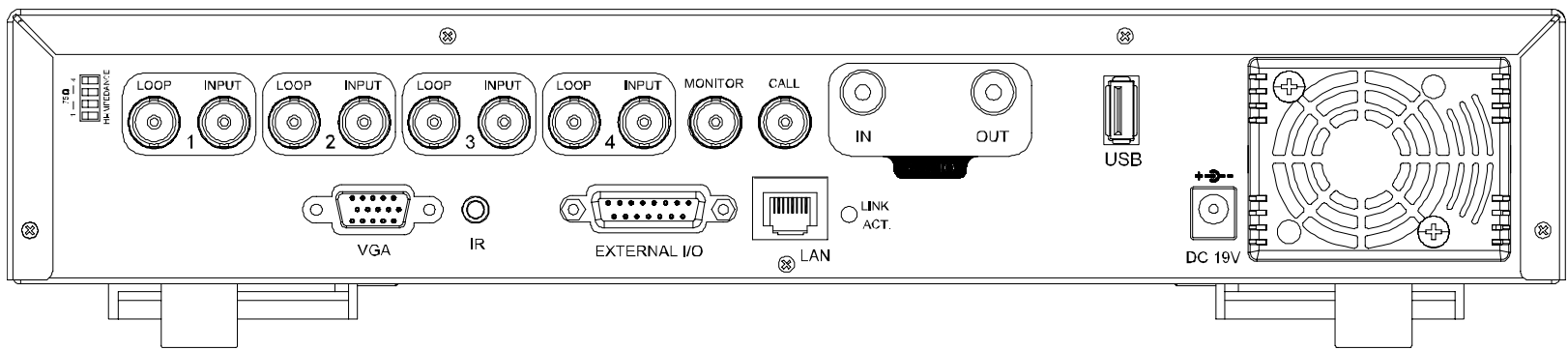
- Model 1 & 2



- Model 3



- Model 4



1) 75Ω / HI-IMPEDANCE

When using LOOP function, please switch to HI-IMPEDANCE. Otherwise, please switch to 75Ω.

2) LOOP / INPUT (For channel 1~4)

LOOP: Video output connector.

INPUT: Connect to video sources, such as cameras.

**Note:** If you want to playback the video with audio, please connect an audio camera to INPUT 1 on the DVR rear panel.

3) MONITOR

Connect to MAIN monitor.

4) CALL

Connect to CALL monitor to show the channel display one by one.

When any alarm is triggered, CALL monitor will show the image of the triggered channel for a period of time.

5) AUDIO IN

Connect to audio sources, such as cameras equipped with the audio function.

When users start recording, the audio input will also be recorded.

6) AUDIO OUT

Connect to a monitor or speaker with 1 mono audio output.

7) USB (Model 3 & 4 only)

To quickly backup or upgrade firmware/OSD, you can insert a compatible USB flash drive into this USB port.

Before using the USB flash drive, please use your PC to format the USB flash drive as "FAT32" first.

**Note:** For the list of compatible USB flash drives, please refer to your user manual.

8) IR (Model 3 & 4 only)

Connect the IR receiver for remote control.

9) EXTERNAL I/O

Insert the supplied 15PIN DSUB to this port for connecting external devices (external alarm, PTZ camera, etc).

For detailed I/O port PIN configuration, please refer to your user manual.

10) VGA (Model 4 only)

Connect to a LCD monitor directly.

11) LAN

Connect to Internet by LAN cable.

12) LINK ACT.

When your DVR is connected to the Internet, this LED will be on.

13) DC 19V

Connect to the supplied adapter.

## 2. CONNECTIONS AND SETUP

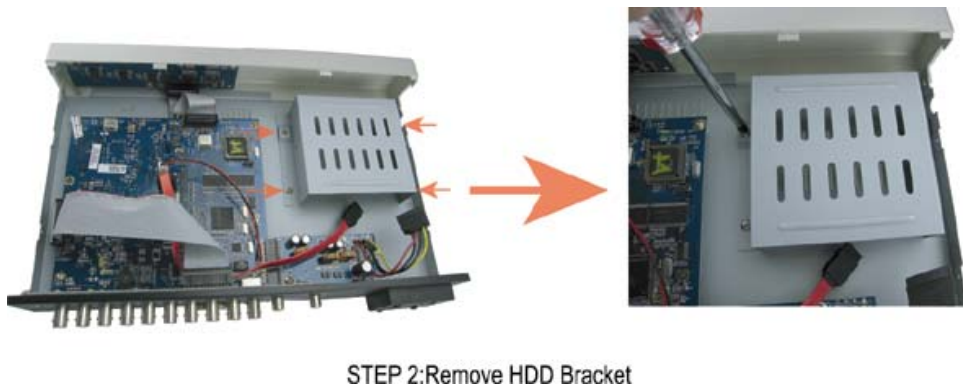
### 2.1 HDD Installation (Take Model 1 as an example)

The HDD must be installed before the DVR is turned on.

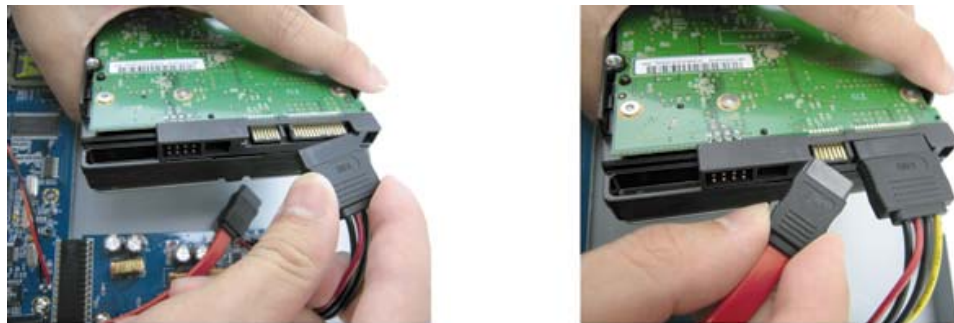
Step 1: Loosen the screws on the upper cover and open the upper cover of the DVR.



Step 2: Remove the HDD bracket.



Step 3: Get a compatible SATA HDD, and connect it to the power connector and data bus connector (make sure to align the HDD precisely for pin connection).



STEP3: Connect to power connector & data bus connector

Step 4: Put the HDD to the DVR, and replace the HDD bracket back to the DVR base.



STEP4: Put the HDD and replace the bracket back

Step 5: Close the upper cover of the DVR, and fasten all the screws you loosened in Step 1.

### 2.2 Camera Connection

The cameras must be connected and power-supplied **BEFORE** the DVR is turned on. The DVR will automatically detect the video system of the connected camera(s) (NTSC / PAL), and switch itself to the correct system.

Connect the camera with the indicated power supply, and connect the camera video output to the DVR video input port with a coaxial cable or RCA lines with BNC connectors.

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**Note:** For detailed DVR video input / output ports, please refer to "1.2 Rear Panel" at page 2.  
For detailed camera operation, please refer to its own manual.

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**Note:** If you want to make a video backup with audio, please connect audio camera to the CH1 which support the audio function

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## 2.3 Power Setup

This device should be operated only with the type of power source indicated on the manufacturer's label. Connect the indicated AC power cord to the power adapter, and plug into an electrical outlet. The power LED "Ⓜ" will be on as green. It takes approximately 10 to 15 seconds to boot the system.

## 2.4 Date and Time Setting

Before operating your DVR, please set the date and time on your DVR first.

Press the "MENU" button and enter the password to go to the menu list. The default admin password is 0000. Move the cursor to "DATE" and you can set the date / time / daylight saving in the "DATE" menu list.

## 2.5 Password Setting

Press the "MENU" button and enter the password to go to the menu list. Then, move the cursor to "ADVANCE" to enter the advanced setting menu.

In the "ADVANCE" menu, move the cursor to "SYSTEM". Select "PASSWORD" and press the "ENTER" button to enter the submenu to set the password (four digits). The default admin password is 0000.














ADVANCE
CAMERA
DETECTION
REMOTE
DISPLAY
ALERT
<b>SYSTEM</b>
NETWORK
BACKUP
HDD INFO

SYSTEM	
SERIAL TYPE	RS485
BAUDRATE	2400
HOST ID	0
<b>PASSWORD</b>	<b>XXXX</b>
RESET DEFAULT	RESET
CLEAR HDD	HDD-MASTER-1
UPGRADE	START
AUTO KEYLOCK	NEVER
LANGUAGE	ENGLISH
VIDEO FORMAT	NTSC
VERSION	1160-1012-1021-1014-M3-6C1B

## 3. BASIC OPERATION

### 3.1 Live Page


In this live page of the DVR, you can see the following icons:

Icon	Function	Icon	Function	Icon	Function
	Key lock		Digital zoom mode		Alarm
	Key unlock		Digital zoom unselected		Recording
	Live audio channel		Timer recording		Motion
	Playback audio channel		PTZ control mode		
	Audio channel unselected		Full screen sequence mode		



### 3.2 Recording

When the recording and the pre-alarm function are activated, this device will overwrite 8GB data from the oldest for continuous recording without notice.


#### 1) Continuous Recording Icon

When the DVR is properly connected with camera, you can see the icon “” (recording) on the monitor.

#### 2) Motion Recording Icon

When the motion / alarm detection is activated, once motion or external alarm happens, you will see the icon “” (motion) and “” (alarm) on the monitor.

#### 3) Timer Recording Icon

When the timer record is activated, you will see the icon “” (timer) on the monitor

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**Note:** The audio source connected to the “Audio 1” will be recorded with the video of the “CH1”.

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### 3.3 Playback

Press the “PLAY” button on the DVR control panel, and the device will playback the latest recorded video.

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**Note:** There must be at least 8192 images of recorded data for playback to work properly. If not, the device will stop playback. For example, if the IPS is set to 30, the recording time should be at least 273 seconds (8192 images / 30 IPS) for the playback to work properly.

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#### 1) Fast Forward / Fast Rewind

You can increase the speed for fast forward and rewind on this device. In the playback mode:  
Press “FF” once to get 4X speed forward and press twice to get 8X speed, etc. And the maximum speed is 32X.  
Press “REW” once to get 4X speed rewind and press twice to get 8X speed, etc. And the maximum speed is 32X.

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**Note:** During playback, the image size of the recording (CIF) will be shown on the screen.

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#### 2) Pause / Image Jog

Press “PAUSE” button to pause the playback.

In the pause mode:

Press “▶” button once to get one frame forward.

Press “◀” button once to get one frame rewind.

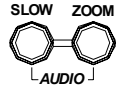
3) Stop

Pressing “STOP” button under playback mode, the screen of this device will return to live monitoring mode.

4) Slow Playback

Press “SLOW” button to get 1/4X speed playback and press twice to get 1/8X speed playback.

5) Audio Playback



Use these two buttons to select the live or playback sound of the audio channels.



Live audio of the 1st audio channel



Playback audio of the 1st audio channel

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**Note:** If you want to make a video backup with audio, please connect your camera which supports the audio function to CH1 first.

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### 3.4 Key Lock and Unlock

1) Key Lock On:

Press “MENU” + “ENTER” buttons at the same time on the DVR control panel to lock keys.

Or set the time-out after which the key lock function is activated (Never / 10 SEC / 30 SEC / 60 SEC). Please refer to page 21 in your user manual.

2) Key Lock Off:

Enter the DVR password to exit “Key Lock” mode.

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**Note:** For the password setting, please refer to your user manual.

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