# *H.264 Network DVR*

# Quick Start

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) <u>LED Indicators</u>

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) <u>MENU</u>

Press "MENU" button to enter the main menu.

3) <u>ENTER</u>

Press "ENTER" button to confirm the setting.
Press "ENTER" to change the position of the channel display.
Press "▲ / ▼ / ◄ / ►" to select the channel which you would like to change.
Press "PAUSE/＋" or "STOP/－" to select the channel which you would like to show.

4) <u>SLOW</u>

Under the playback mode, press "SLOW" button to show slow playback.

5) <u>ZOOM</u>

Press "ZOOM" button to enlarge the picture of selected channel (under the live mode).

6) ⊞ / －

Press "⊞" button to show the 4 channel display mode.
Press " － " button to change the setting in the menu.

7) <u>SEQ / ＋</u>

Press "SEQ" button to activate the call monitor function and press "SEQ" button again to escape the call monitor mode.
Press "＋" button to change the setting in the menu.

8) <u>POWER</u>

Press this button to turn on / off the DVR.
(Under the recording mode, please stop recording before turning off the DVR).

9) <u>CH1 / CH2 / CH3 / CH4</u>

Press "**1**" "**2**" "**3**" "**4**" buttons to select the channel to display.

10) <u>PLAY</u>

Press this button to playback the recorded data.

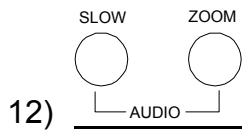11) <u>UP / PAUSE; DOWN / STOP; LEFT / FAST REWIND; RIGHT / FAST FORWARD</u>

Press "▲ / ▼ / ◄ / ►" to move the cursor up / down / left / right.
Under the playback mode, press " PAUSE/＋" button to pause playback.
Under the playback mode, press " STOP/－" button to stop playback.
Under the playback mode, press "FF" button to fast forward.
Under the playback mode, press "REW" button to fast rewind.

12)

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

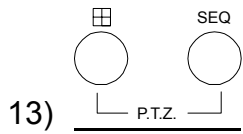| | | | |
|---|---|---|---|
| 🔊 | Live audio of the 1st audio channel | 🔊 | Playback audio of the 1st audio channel |
| 🔊 | Live audio of the 2nd audio channel | 🔊 | Playback audio of the 2nd audio channel |
| 🔊 | Live audio of the 3rd audio channel | 🔊 | Playback audio of the 3rd audio channel |
| 🔊 | Live audio of the 4th audio channel | 🔊 | Playback audio of the 4th audio channel |
| 🔇 | The audio channel is not selected. | | |

13)

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 "UP, DOWN, LEFT, RIGHT" buttons

14) MENU + ENTER

Press "MENU" + "ENTER" buttons on the DVR front panel to lock keys and to log in another username.

15) LIST (Event List Search)

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

ALARM      List the information of the alarm-trigger-recorded files.

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

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

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

TIMER      List the information of the timer-recorded files
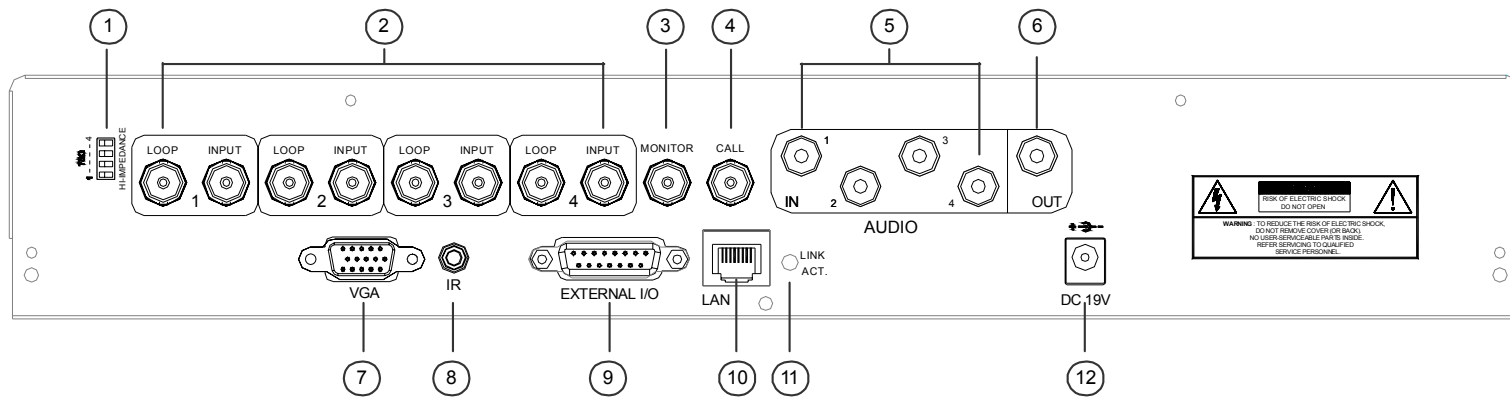
16) SNAP

Press "SNAP" to take a snapshot.

17) EJECT

For Model 2, press the "EJECT" button to open / close the DVD Writer.

18) USB

Support firmware update and file backup.

## 1.2 Rear Panel



1) **75Ω / HI-IMPEDANCE**

   When using Loop function, please switch to HI-IMPEDANCE. When you don't use Loop function, please switch to 75Ω.

2) **INPUT (1 ~ 4CH):** Connect to video sources, such as cameras.

   **LOOP (1 ~ 4CH):** Video output.

**Note:** The DVR will automatically detect the video system of the camera, please make sure that the cameras are properly connected to the DVR and power-supplied before the DVR is turned on.

3) **MONITOR**

   Connect to a CRT monitor for video output.

4) **CALL**

   Connect to a call monitor.

5) **Audio IN (1 / 2 / 3 / 4)**

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

   When users start recording, the audio input will also be recorded with corresponding video channel.

**Note:** The audio source connected to the "Audio 1" will be recorded with the video of the "CH1".
The audio source connected to the "Audio 2" will be recorded with the video of the "CH2".
The audio source connected to the "Audio 3" will be recorded with the video of the "CH3".
The audio source connected to the "Audio 4" will be recorded with the video of the "CH4".

6) **Audio OUT**

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

7) **VGA**

   Connect to the TFT monitor directly

8) **IR**

   Connect the IR receiver extension line for remote control.

9) **EXTERNAL I/O**

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

   For detailed I/O port PIN configuration, please refer to "APPENDIX 1" in the user manual.

10) **LAN**

    Connect to Internet by LAN cable.

11) **LINK / ACT LED light:**

    When the Internet is activated, the LED light will be on.

12) **DC 19V**

    Connect to the supplied adapter.

# 2. BASIC OPERATION

## 2.1 Live Page

In this live page of the DVR, you can see the live viewing of 1 or 4-cut screen.



| Icon | Function | Icon | Function | Icon | Function | Icon | Function |
|------|----------|------|----------|------|----------|------|----------|
| 🔒 | Key lock | 🔓 | Key unlock | 🔊 | $1^{st}$ live audio channel | 🔊 | $2^{nd}$ live audio channel |
| 🔊 | $3^{rd}$ live audio channel | 🔊 | $4^{th}$ live audio channel | 🔊 | $1^{st}$ playback audio channel | 🔊 | $2^{nd}$ playback audio channel |
| 🔊 | $3^{rd}$ playback audio channel | 🔊 | $4^{th}$ playback audio channel | 🔇 | Audio channel unselected | 🔍 | Digital zoom mode |
| 🔍 | Digital zoom unselected | 💾 | HDD overwritten | ⏱ | Timer recording | 🐾 | Motion |
| 📹 | Recording | 📡 | Alarm | | | | |

## 2.2 Recording

When the HDD overwritten function is 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 screen.

2) Event Recording Icon

When the motion / alarm detection is activated, once motion or external alarm happens, you will see the icon " 🐾 " (motion) or " 📡 " (external alarm) on the screen.

3) Timer Recording Icon

When the timer record is activated, you will see the icon "⏱" (timer) on the screen.

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

The audio source connected to the "Audio 2" will be recorded with the video of the "CH2".

The audio source connected to the "Audio 3" will be recorded with the video of the "CH3".

The audio source connected to the "Audio 4" will be recorded with the video of the "CH4"

4) HDD Overwritten Icon

HDD Overwritten function can be set to ON / OFF. When this function is enabled (ON), the  icon will display on the monitor screen. The HDD capacity information can be set to be in red text when the capacity reaches below certain level.

## 2.3 Playback

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

**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.

**Note:** The playback at the local site might not be so smooth if there's any remote surveillance simultaneously going on.

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.

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

2) Pause / Image Jog

Press "PAUSE/＋" button to pause the playback.
In the Pause mode:
Press "FF" button once to get one frame forward.
Press "REW" 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 (  CH－ ◀)) / ◀)) CH＋ )

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

 Live audio of the 2nd audio channel      Playback audio of the 2nd audio channel

 Live audio of the 3rd audio channel      Playback audio of the 3rd audio channel

 Live audio of the 4th audio channel      Playback audio of the 4th audio channel

 The audio channel is not selected.

## 2.4 Key Lock and Unlock

1) Key Lock On

Press "MENU" + "ENTER" buttons on the DVR front panel to lock keys.
Auto key lock: Refer to "7.2 system Info" in the user manual.

2) Key Lock Off

Enter the DVR password to exit "Key Lock" mode.

**Note:** For the password setting, please refer to "3.5 Password Setting" in the user manual.

## 2.5 Upgrade

· **Firmware / Multilanguage OSD Upgrade**

1)  Use USB to upgrade firmware or OSD

Step 1. Format the USB memory device as FAT 32 format first.
Step 2. Get the upgrade files from your distributor and save the upgrade files in your USB flash device
(do not change the file name).
Step 3. In the " " (SYSTEM INFO) menu, move the cursor to "UPGRADE", and press the "ENTER" button to
enter.
Step 4. Select "YES", and press the "ENTER" button again to confirm upgrade.

2)  Use AP software to remotely upgrade firmware or OSD

Step 1. Save the upgrade files at your PC (do not change the file name) and then login to the AP software.
Step 2. Press " " (Miscellaneous Control) button to show the Miscellaneous Control panel. In the
Miscellaneous Control panel, press " " (Tools) button on the Miscellaneous Control panel to enter the
upgrade window.
Step 3. Enter the user name, password, IP address and port number of the DVR.
Step 4. Press "Add" to select the provided firmware and OSD files.
Step 5. Then press "Upgrade Firmware" button to start upgrade.

## 2.6 Search

1)  Search by List

Press "LIST" button on the DVR control panel to show the list for all types of the recorded files. Choose the list
you want to view and press the "ENTER" button to start playback.

| ALARM | List the information of the alarm-trigger-recorded files. |
|---|---|
| MANUAL | List the information of the manual-recorded files. The DVR will save one recorded file once any recording setting is changed |
| MOTION | List the information of the motion-trigger-recorded files. |
| SYSTEM | List the information of the system-recorded files. The DVR system will save one recorded file every one hour. |
| TIMER | List the information of the timer-recorded files. |

2)  Search by Time

In the " " (EVENT INFO) menu list, move the cursor to "QUICK SEARCH", and press the "ENTER" button to
enter the quick search menu. You can search any specific events by time (Year / Month / Day / Hour / Min) and
directly play the file you find.

3)  Search the Record Event by Log on the AP Software

Press " " (Miscellaneous Control) button to show the Miscellaneous Control panel. In the Miscellaneous
Control panel, press " " (Status List) button to enter the "Status List" page. In this page, you can see the list of
three different types of recording (User / Motion / Alarm) and press "Play" button to directly playback the file.