

# KPD616

## MPEG-4 DVR QUICK



### ROHS AND WEEE



All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly "lead-free" and without the hazardous substances cited in the directive.



The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste.

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

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

# 1. OVERVIEW

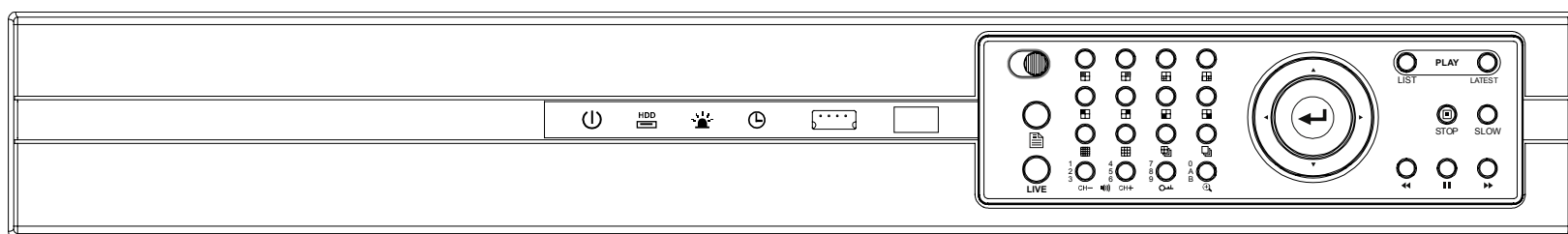
## 1.1 Product Description

This MPEG-4 multiplex network DVR series combined remote surveillance, burglar prevention, and evidentiary recording features and is designed to become a simple entry-level system with all necessary functions.

## 1.2 Package Contents

- |   |   |
|---|---|
| <input type="checkbox"/> Digital Video Recorder (DVR) | <input type="checkbox"/> Free licensed software AP disc |
| <input type="checkbox"/> Adapter and power cord       | <input type="checkbox"/> DSUB PIN connector             |
| <input type="checkbox"/> Manual & quick start         | <input type="checkbox"/> Screws * 4                     |

# 2. FRONT AND REAR PANELS



## 2.1 Front Panel

### 1) LED Indication

The following LEDs will be on when:

- : When power is connected
- : HDD is reading or recording / HDD Full: HDD is full
- : Once the alarm or motion is triggered
- : When timer recording is activated

**Note:** If you want to turn off your DVR, please disconnect the power supply.

### 2) (USB port)

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 first.

**Note:** For the list of compatible USB flash drives, please refer to "APPENDIX 2 PIN CONFIGURATION" in the user manual.

### 3) IR receiving zone

If you removed the control panel from the DVR to use as a remote controller, use the remote controller to aim at this area to control the DVR operation.


### 4) (Lock mode) / (Unlock mode)

To lock the control panel on the DVR, please switch the lock button to the left "" (lock mode). If you want to remove the control panel from the DVR to use as a remote controller, please switch the lock button to the right "" (unlock mode).

---

**Note:** Due to panel position difference, please place the vertical panel sticker on the removed controller for operation convenience.





---

5)  (Menu)





Press this button to enter / exit the quick start menu.  
Under the sub-layer of the advanced setting menu,  
use this button to confirm the settings and go back to the upper layer.


6) LIVE

Press this button to stop the playback and return to the live mode.





7)  /  /  /  (Quad display selection)





Under the live or playback mode, press one of these four buttons to select the quad display mode.

-  : Display **Quad 1** mode (4-cut view of CH1, CH2, CH5 and CH6).
-  : Display **Quad 2** mode (4-cut view of CH3, CH4, CH7 and CH8).
-  : Display **Quad 3** mode (4-cut view of CH9, CH10, CH13 and CH14).
-  : Display **Quad 4** mode (4-cut view of CH11, CH12, CH15 and CH16).





8)  /  /  /  (Single channel selection under quad selection mode)





In the quad display mode, press one of these four buttons to select the channel display.

-  : Display the **upper left** channel of the selected quad mode.
-  : Display the **upper right** channel of the selected quad mode.
-  : Display the **lower left** channel of the selected quad mode.
-  : Display the **lower right** channel of the selected quad mode.



9)  /  /  /  (16-cut channel display / 9-cut channel display / Quad Sequence / Full Sequence)

Press one of these four buttons to switch the channel display or to activate the sequence mode.





-  : Display **16-cut display**.
-  : Display **9-cut display**.
-  : Press this button to activate the **Quad Sequence** mode and press the button again to exit.
-  : Press this button to activate the **Full Sequence** mode and press the button again to exit.

10)  /  /  /  (Number buttons for password entering)

Use these four buttons to enter the DVR password.

11)  / 

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

- Icon " " means: Live audio of the 1<sup>st</sup> audio channel / Icon " " means: Playback audio of the 1<sup>st</sup> audio channel
- Icon " " means: Live audio of the 2<sup>nd</sup> audio channel / Icon " " means: Playback audio of the 2<sup>nd</sup> audio channel
- Icon " " means: Live audio of the 3<sup>rd</sup> audio channel / Icon " " means: Playback audio of the 3<sup>rd</sup> audio channel
- Icon " " means: Live audio of the 4<sup>th</sup> audio channel / Icon " " means: Playback audio of the 4<sup>th</sup> audio channel
- Icon " " means: The audio channel is not selected.

---

**Note:** If you want to make a video backup with audio, please connect audio cameras to the channels which support the audio function (CH13, CH14, CH15 and CH16).

---

12)  (Key lock)

Press this button to lock keys on the DVR front panel.

13)  (Digital zoom)

Press this button to enlarge the image of the selected channel.

14) 

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

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

▲ ▼: Make the selection / Change the settings

◀ ▶: Go to the upper layer or sub-layer / Make the selection

15) 

Confirm the password entering.

Under the advanced menu, use this button to confirm the settings and go back to the upper layer.

16) LIST

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.

17) LATEST

Press this button to playback the latest recorded video.

18) STOP

Press this button to stop playback and return to the live mode.


19) SLOW

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

20) 

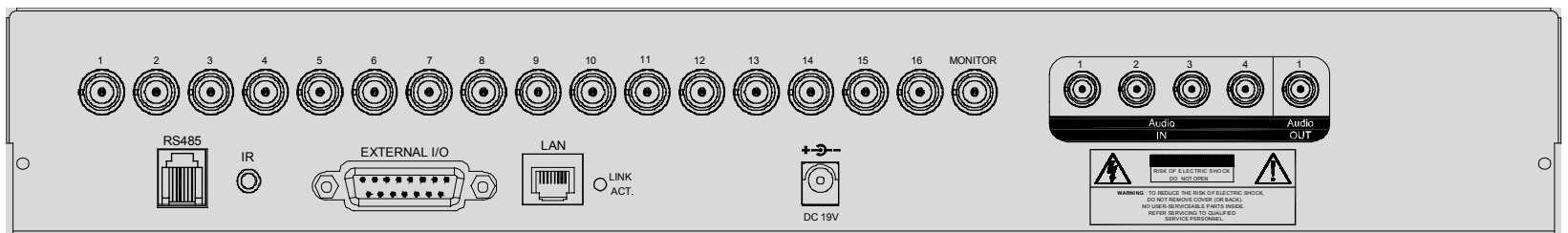
Under the playback mode, press these buttons to fast rewind / pause / fast forward the playback file.

## 2.2 Remote Controller

If you want to remove the control panel from the DVR to use as a remote controller, please switch the lock button to the right  (unlock mode). Due to the different panel layout, please place the vertical panel sticker on the controller for operation convenience.

For the detailed instruction, please refer to the remote controller Manual.

## 2.3 Rear Panels



### 1) INPUT (1 ~ 16CH)

Connect to video sources, such as cameras.

---

**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.

---

**Note:** If you want to make a video backup with audio, please connect audio cameras to the channels which support the audio function (CH13, CH14, CH15 and CH16).

---

### 2) MONITOR

Connect to MAIN monitor for video output.

### 3) 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 "CH13".

The audio source connected to the "Audio 2" will be recorded with the video of the "CH14".

The audio source connected to the "Audio 3" will be recorded with the video of the "CH15".

The audio source connected to the "Audio 4" will be recorded with the video of the "CH16".

---

### 4) Audio OUT

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

### 5) IR

Connect the IR receiver extension line for remote control.

### 6) EXTERNAL I/O

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

For detailed I/O port PIN configuration, please refer to "APPENDIX 2 PIN CONFIGURATION" in the user manual.

### 7) LAN

Connect to Internet by LAN cable.

### 8) LINK ACT.

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

### 9) DC 19V

Connect to the supplied adaptor.

## 3. CONNECTIONS AND SETUP

### 3.1 Install HDD

- Step 1: Loosen the screws on the upper cover and open the upper cover of the DVR.
- Step 2: Screw out the L-shape HDD brackets. Two brackets are used to secure a HDD, and there are 4 of them.
- Step 3: Get a suitable brand HDD and set the HDD mode (**Master or Slave**).

---

**Note:** HDD mode setting rule:

*Master* if you want to install the HDD to the place near the back panel;

*Slave* if you want to install the HDD to the place near the front panel.

---

- Step 4: Attach the bracket to one side of the HDD, and align the screw holes of the bracket with the HDD's screw holes. Screw the HDD onto the HDD bracket, two screws for each side. Then, do the same thing to the other side of the HDD.
- Step 5: Screw the two HDD brackets back to the DVR base.
- Step 6: Connect the HDD to the power connector and IDE BUS (make sure to align the HDD precisely for pin connection).  
For IDE BUS connection:  
Connect to the *blue* IDE BUS connector if the HDD mode is set to Master;  
Connection to the *gray* IDE BUS connector if the HDD mode is set to Slave.
- Step 7: Close the upper cover of the DVR, and fasten all the screws you loosened in Step 1.

### 3.2 Camera Connection

The cameras must be connected and power-supplied before the DVR is turned on. Connect the camera with the indicated power supply. And then connect the camera video output to the DVR video input port with a coaxial cable or RCA lines with BNC connectors (**The DVR will automatically detect the video system of the camera**).

---

**Note:** For detailed DVR video input / output ports, please refer to section "2.3 Rear Panels" at page 4.  
For detailed camera operation, please refer to its own manual.

---

---

**Note:** If you want to make a video backup with audio, please connect audio cameras to the channels which support the audio function (CH13, CH14, CH15 and CH16).

---

### 3.3 DVR 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 adaptor, and plug into an electrical outlet. Power LED "Ⓛ" will be on as blue. It takes approximately 10 to 15 seconds to boot the system.

## 4. BASIC OPERATION

### 4.1 Recording



This device offers non-stop recording mode. If the power is off accidentally, the recorded video data will not be lost and is safely stored in the HDD. The device will return to the original recording status after the power is on again.

When the HDD is full, this device will overwrite 8GB data from the oldest for continuous recording without notice.

#### 1) Continuous Recording Symbol

When the DVR is properly connected with camera, you can see the sign “” on the screen.

#### 2) Event Recording Symbol

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

---

Note: The audio source connected to the “Audio 1” will be recorded with the video of the “CH13”.

The audio source connected to the “Audio 2” will be recorded with the video of the “CH14”.

The audio source connected to the “Audio 3” will be recorded with the video of the “CH15”.

The audio source connected to the “Audio 4” will be recorded with the video of the “CH16”.

---

### 4.2 Playback

Press “**LATEST**” 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.

---

Playback related operations are described below:

#### 1) Fast Forward (▶▶) / Fast Rewind (◀◀)

You can increase the speed for fast forward and rewind on this device. In the playback mode:

Press “▶▶” once to get 4X speed forward and press twice to get 8X speed, etc. And the maximum speed is 32X.

Press “◀◀” once to get 4X speed rewind and press twice to get 8X speed, etc. And the maximum speed is 32X.

#### 2) Pause (||) / Image Jog

Press “||” 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.

Icon “” means: Live audio of the 1<sup>st</sup> audio channel / Icon “” means: Playback audio of the 1<sup>st</sup> audio channel

Icon “” means: Live audio of the 2<sup>nd</sup> audio channel / Icon “” means: Playback audio of the 2<sup>nd</sup> audio channel

Icon “” means: Live audio of the 3<sup>rd</sup> audio channel / Icon “” means: Playback audio of the 3<sup>rd</sup> audio channel  
 Icon “” means: Live audio of the 4<sup>th</sup> audio channel / Icon “” means: Playback audio of the 4<sup>th</sup> audio channel  
 Icon “” means: The audio channel are not selected.



---

**Note:** If you want to make a video backup with audio, please connect audio cameras to the channels which support the audio function (CH13, CH14, CH15 and CH16)

---

### 4.3 Key Lock and Unlock

1) Key Lock On:

 Press  button 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).




2) Key Lock Off:

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


### 4.4 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  button to enter.  
 Step 4. Select “YES”, and press  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 “” button on the AP software control panel to enter the AP 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.

### 4.5 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  button to start playback.









2) Search by Time

In the “ EVENT LOG” menu list, move the cursor to “QUICK SEARCH”, and press  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.











## 5. MAIN MENU

### 5.1 Menu Configuration

QUICK START MENU		STATUS	CHANNEL TITLE EVENT STATUS CHANNEL STATUS				
		RECORD	IMAGE SIZE QUALITY IMAGE PER SECOND				
		TIMER	TIMER				
		DATE	DATE FORMAT DAYLIGHT SAVING				
ADVANCED MENU		ADVANCE CONFIG	CAMERA DETECTION ALERT NETWORK DISPLAY				
				SYSTEM CONFIG	SERIAL TYPE BAUD RATE HOST ID PASSWORD RESET DEFAULT CLEAR HDD UPGRADE AUTO KEYLOCK (SEC) LANGUAGE VIDEO FORMAT VERSION		
						EVENT LOG	QUICK SEARCH HDD INFO EVENT LOG
							

### 5.2 Menu Operation Instruction

ITEM	FUNCTION
<b>QUICK START MENU:</b>	<b>View &amp; change the settings of the quick start menu items</b>
 MENU	Enter / exit the quick start menu
▲ ▼	Make the selection / Change the setting
◀ ▶	Go to the upper layer or sub-layer / Make the selection
 ENTER	Confirm the password entering
 <b>ADVANCED MENU:</b>	<b>In the quick start menu, move the cursor to the icon “” and press “▼” button to enter the advanced setting menu.</b>
 ENTER	Go to the sub-layer of the advanced menu
 MENU	Under the sub-layer of the advanced setting menu, use this button to confirm the settings and go back to the upper layer.
→ NEXT	Move the cursor to this item and press  button to go the next page.
← BACK	Move the cursor to this item and press  button to go the next page.
	Other operations in the advanced menu are the same as in the quick start menu.