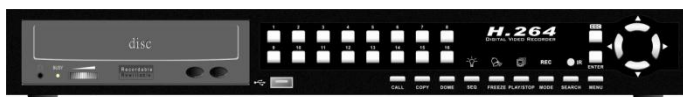


# Optiview H.264 DVR Setup Guide

## Package Content

Inspect the packaging carton. Make sure the **Optiview H.264 DVR** is properly delivered. Remove all items from the box and make sure the box contains the following items.

Optiview H.264 DVR



Power Adapter



Power Cord



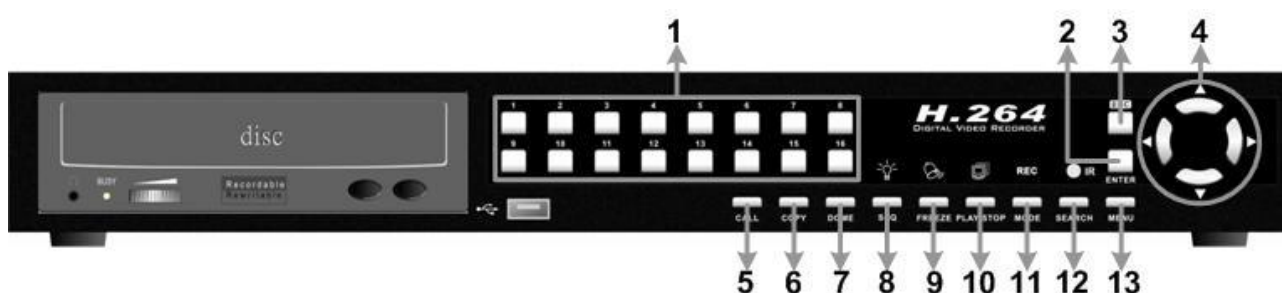
Software CD-CMS



User's Manual

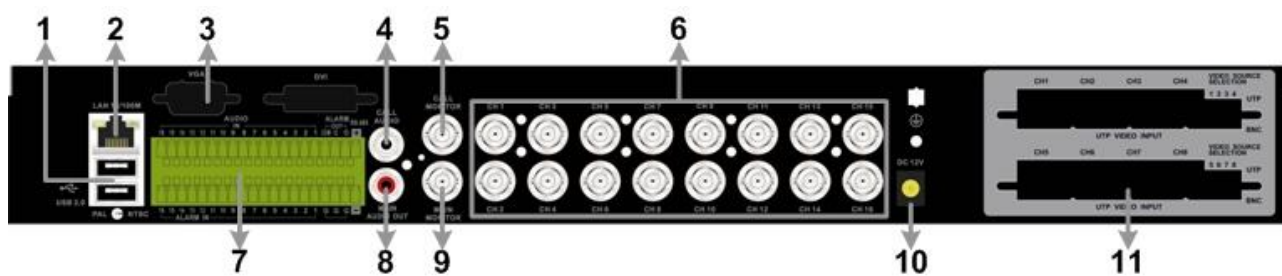


## Function Keys on the Front Panel



1	Channels (4 / 8 / 16)	6	COPY	11	MODE
2	ENTER	7	DOME	12	SEARCH
3	ESC	8	SEQ (Sequence)	13	MENU
4	Direction Keys	9	FREEZE		
5	CALL	10	PLAY/STOP		

## Rear Panel Connectors



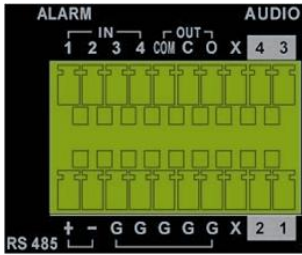
1	USB Connectors	5	Call Monitor	9	Main Monitor - BNC
2	LAN 10/100M (RJ-45)	6	Video Input (BNC)	10	Power Jack
3	Main Monitor - VGA (Optional)	7	Alarm In, RS-485, & Audio In	11	UTP Input (Optional)
4	Call Monitor Audio Out	8	Main Monitor Audio Out		

## Description of Connectors

1	<b>USB Connector</b>	There are three USB 2.0 ports (2 at rear + 1 at front) to allow users to connect external USB devices to the unit, such as a USB ThumbDrive® or a USB mouse.
2	<b>LAN 10/100M (RJ-45)</b>	The DVR is capable of networking. Once the unit is connected to the LAN network, users can remotely access the unit through the remote software on a PC.
3	<b>Main Monitor-VGA(optional)</b>	The DVR can connect to a monitor via an optional VGA connector.
4	<b>Call Monitor Audio Out</b>	Call Monitor Audio Out RCA connectors are provided for the DVR to connect audio output devices (e.g. amplified speakers).
5	<b>Call Monitor (BNC)</b>	The call monitor is used to display full screen video of all installed cameras in sequence. The BNC Call Monitor connector allows users to connect the DVR to a call monitor. To access call monitor control, please use the IR remote controller.
6	<b>Video Input BNC</b>	A group of BNC connectors is provided for video input streams from installed cameras. The number of connectors is equal to the number of channels.
7	<b>Alarm I/O, RS-485, &amp; Audio In</b>	Terminal block connectors are provided to offer users the flexibility to connect the DVR to Alarm I/O, RS-485, and Audio In devices. Refer to the next page for pin definition of each model.
8	<b>Main Monitor Audio Out</b>	Main Monitor Audio Out RCA connectors are provided for the DVR to connect audio output devices (e.g. amplified speakers).
9	<b>Main Monitor-BNC</b>	The DVR can connect to a monitor via a BNC connector.
10	<b>Power Jack</b>	The DVR has a free voltage DC power connection jack. Please connect the power supply adapter shipped with the unit.
11	<b>UTP Input (Optional)</b>	The UTP Input offers additional connectivity using the Unshielded Twisted Pair wiring. UTP cable is one of the most common medium in telecommunication industry.

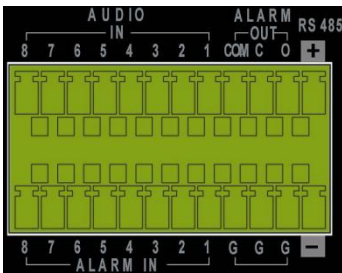
## Pin Definition of Alarm I/O, RS-485, & Audio In

### 4ch-Model:



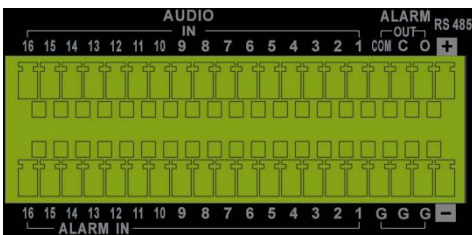
Pin	Definition	Pin	Definition	Pin	Definition
1	Alarm In 1	8	X	15	Ground
2	Alarm In 2	9	Audio In 4	16	Ground
3	Alarm In 3	10	Audio In 3	17	Ground
4	Alarm In 4	11	RS485 D+	18	X
5	Alarm Out COM	12	RS485 D-	19	Audio In 2
6	Alarm Out C	13	Ground	20	Audio In 1
7	Alarm Out O	14	Ground		

### 8ch-Model:



Pin	Definition	Pin	Definition	Pin	Definition
1	Audio In 8	9	Alarm Out COM	17	Alarm In 4
2	Audio In 7	10	Alarm Out C	18	Alarm In 3
3	Audio In 6	11	Alarm Out O	19	Alarm In 2
4	Audio In 5	12	RS485 D+	20	Alarm In 1
5	Audio In 4	13	Alarm In 8	21	Ground
6	Audio In 3	14	Alarm In 7	22	Ground
7	Audio In 2	15	Alarm In 6	23	Ground
8	Audio In 1	16	Alarm In 5	24	RS485 D-

### 16ch-Model:



Pin	Definition	Pin	Definition	Pin	Definition	Pin	Definition
1	Audio In 16	11	Audio In 6	21	Alarm In 16	31	Alarm In 6
2	Audio In 15	12	Audio In 5	22	Alarm In 15	32	Alarm In 5
3	Audio In 14	13	Audio In 4	23	Alarm In 14	33	Alarm In 4
4	Audio In 13	14	Audio In 3	24	Alarm In 13	34	Alarm In 3
5	Audio In 12	15	Audio In 2	25	Alarm In 12	35	Alarm In 2
6	Audio In 11	16	Audio In 1	26	Alarm In 11	36	Alarm In 1
7	Audio In 10	17	Alarm Out COM	27	Alarm In 10	37	Ground
8	Audio In 9	18	Alarm Out C	28	Alarm In 9	38	Ground
9	Audio In 8	19	Alarm Out O	29	Alarm In 8	39	Ground
10	Audio In 7	20	RS485 D+	30	Alarm In 7	40	RS485 D-

## Basic Setup

Follow the description to set up the configuration of date/time, recording, and viewing mode of the DVR. All configurations can be set via either the DVR or **DVRRemote**, the remote software.

### Enter OSD Setup menu:

- Press **MENU** to enter the OSD main menu.
- Enter password using Channel keys. The default passwords are as below.

Administrator Password	User Password
1 2 3 4	4 3 2 1

- It is strongly suggested to change the passwords to prevent unauthorized access.

### Date / Time Setting:

Follow the steps below to enter the Date/Time.

- Select **<Date/Time>** in System Setup menu to enter the Date/Time menu.
- Select the date and time using **LEFT/RIGHT** keys; then adjust the value using **UP/DOWN** keys.
- The new date and time settings take effect after the changes are confirmed.

### To Define Recording Settings:

- Select **<Record Setup>** from the OSD main menu.
- Select **<ezRecord>** as **Preset Configuration** option, and select wanted number of recording day in **ezRecord Setup**; other setting will be automatic arranged by the unit.
- Consider application needs and select a **Preset Configuration** setting from **<Best Quality>**, **<Standard>**, and **<Extended Record>**. Detailed information refers to **Optiview H.264 DVR User's Manual, Preset Record Configuration**.
- Adjust the Recording schedule, Pre-alarm, Circular and Audio parameters.
- When the settings are complete, press **ENTER** to confirm and save the settings; or **ESC** to abort.

### To Select Viewing Mode:

- Press **MODE** button repeatedly to select the desired display mode. The available viewing modes are full-screen, 2×2, 3×3, and 4×4 split-window.

## Network Setup

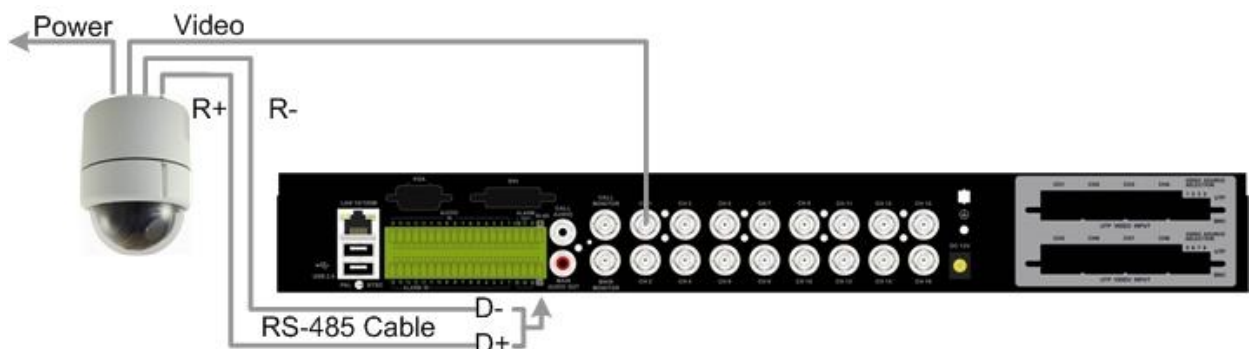
Configure the LAN setup for the DVR to properly function with Ethernet connection.

- From OSD main menu, select **<System Setup>** → **<Network Setup>** → **<LAN Setup>**.
- For DHCP user, set the DHCP to **<ON>**. The IP address, Netmask, Gateway and DNS settings are retrieved from network servers. DHCP is dynamic that the settings change from time to time.
- For Non-DHCP user, set the DHCP to **<OFF>**. Enter an IP address, Netmask, Gateway, and DNS settings. Please obtain the information from the network service provider.
- To change the IP address, Netmask, Gateway and DNS value, press **UP/DOWN** keys to move the cursor to the item. Use **LEFT/RIGHT** keys to access each section of the value and press **ENTER**, then change the value using **UP/DOWN** keys.
- When the settings are complete, press **ENTER** to confirm and save the settings; or **ESC** to abort.

## Dome Camera Connection

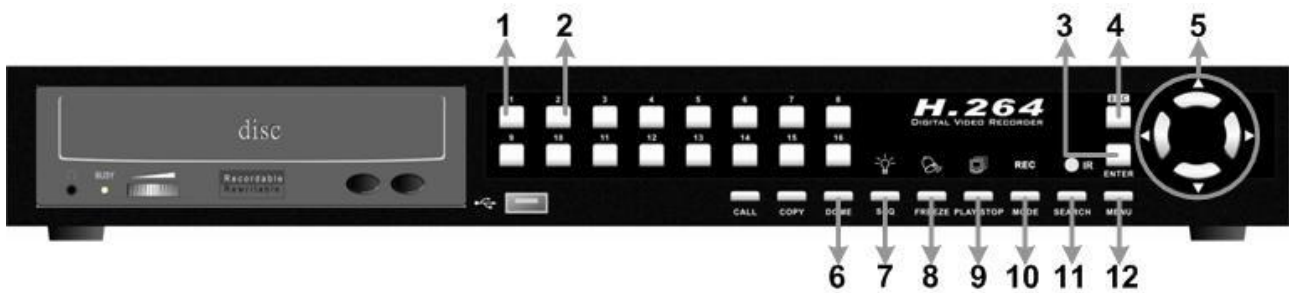
### Dome Camera Connection & Settings:

- See section Pin Definition of Alarm I/O, RS-485, & Audio In for RS-485 port pin definition.
- Refer to the following figure. Connect the R+, R- terminals on the dome camera to the D+, D- terminals on the RS-485 port by RS-485 cable respectively.



- To set up dome camera's protocol and ID, press **MENU** to access the OSD main menu, and select **<Camera Setup>**. The available protocol options include **<Pelco D>**, **<Pelco P>**, **<AD422>**, **<Fastrax 2>**, **<JVC>**, **<Panasonic\_C>**, **<Panasonic\_N>** and **<None>** (default). Note that ID number must match the ID address defined by the dome camera.
- To configure the RS-485 parameters, select **<System Setup>** from OSD main menu, and then select **<RS485 Setup>**. The default **Optiview H.264 DVR** RS-485 settings are 9600 Baud, 8 Data Bits, 1 Stop Bit and No Parity.

## Dome Camera Control Keys:



1	Set / Go Preset	5	Pan / Tilt	9	Iris Close
2	Toggle Hint Screen	6	Enter Dome Camera Control Mode	10	Iris Open
3	Enter / Auto	7	Focus Near	11	Zoom Out
4	ESC	8	Focus Far	12	Zoom In

## Basic Playback Operation

### Searching Recorded Video by Time:

- Press **SEARCH** button to enter the Search menu.
- Move the cursor to “From Time” and press **ENTER** will start playing recorded video from the specified “From Time”.
- Move the cursor to “End Time” and press **ENTER** will start playing recorded video from the specified “End Time”.
- Use Direction keys to move the cursor for setting the Start Time; adjusting the date and time values by **UP/DOWN** keys. Press **ENTER** to confirm or **ESC** to abort.
- Move the cursor to <**Begin Playback**> and press **ENTER** to start playing back the selected video. Either press **PLAY/STOP** again or **ESC** to return to live video.



**NOTE:** If there is no available recorded video that matches the specified time and date, the unit starts to playback from the next available video.

### Searching Recorded Video by Event:

- Press **SEARCH** button to enter the Search menu.
- To search event video that was recorded on a specific camera, use **LEFT/RIGHT** keys to move the cursor and press **ENTER** to select or de-select a channel.
- Move the cursor to <**Event List**> and press **ENTER** to list the event video of the selected channels.
- The list displays each event by date, time, triggered camera and alarm type. The latest recorded event video will be listed on the top. To exit the event list, press **ESC**.
- Use **UP/DOWN** keys to scroll through the Event List. Press **ENTER** to play back the selected event record.



**NOTE:** The event list displays only the first 1024 events; as some events are deleted, others are displayed.

### Playback Controls:

Button	Description
<b>LEFT</b>	The button is for rewinding the recorded video while playing back. Press the button repeatedly to increase the speed of reverse playback by 1×, 2×, 4×, 8×, 16×, or 32×.
<b>RIGHT</b>	The button is used to play the recorded video fast forward. Press the button repeatedly to increase the speed of forward playback by 1×, 2×, 4×, 8×, 16×, or 32×.
<b>FREEZE</b>	Press <b>FREEZE</b> to pause the playback video. When the recorded video is paused, press <b>LEFT / RIGHT</b> to resume playback video single step reverse / forward respectively. Press <b>FREEZE</b> again to continue playing back video.
<b>Play/Stop</b>	Press to start the playback or to stop playing back video and return to live mode.

## Using Remote Software

### Setup Requirements:

- Make sure the PC is connected to the Internet.
- Obtain IP address of the **Optiview H.264 DVR**. To check the DVR's IP address, press **MENU** key on the unit and select <**System Setup**> → <**Network Setup**> → <**LAN Setup**> → <**IP**> to check the IP.

### Changing Internet Setting:

- Start the IE; select <**Tools**> from the main menu of the browser, then <**Internet Options**> and then click the <**Security**> tab.
- Select <**Trusted sites**> and click <**Sites**> to specify its security setting.
- Uncheck "Require server verification (https:) for all sites in this zone". Type the IP address of the unit in field and click <**Add**> to add this website to the zone.
- In the Security Level area, click <**Custom Level**>. Under <**ActiveX controls and plug-ins**>, set all items to <**Enable**> or <**Prompt**>.
- Click <**OK**> to accept the settings and close the <**Security Settings**> screen.

### Using the Remote Software:

- Start the IE and enter the IP address of the **Optiview H.264 DVR** in the address bar.
- The ActiveX controls and plug-ins dialog will show twice for confirmation; click <**YES**> to accept ActiveX plug-ins. The **DVRRemote** plug-ins will be downloaded and installed on the PC automatically when the connection is successfully made.



**NOTE:** Do not enter any leading "0" characters in the address, for example, "192.068.080.006" should be entered "192.68.80.6".



**NOTE:** If the default trigger port 80 is changed into another one, port 81 for example, then the IP address should be entered as "192.68.80.6:81".



- Version verification starts automatically to verify whether DVRRemote was installed. This process may take up to 30 seconds.
- When the software is completely downloaded and installed, the Login Screen is displayed.
- Enter the username and password. The default usernames and passwords are admin: 1234, user: 4321.

The following picture shows the display window of the DVRRemote:



Refer to the table below for brief description of functional items:

Item	Description	Item	Description
1	Select Picture Size	9	HDD Status
2	Download DVRPlayer	10	Playback Control
3	View Live Camera	11	Instant Recording
4	Playback Video	12	Audio On/Off
5	Setup Menu	13	Select Camera
6	Search Event List	14	Select Bandwidth Speed
7	Capture Snapshot	15	Display Mode
8	4:3 Viewing Aspect	16	Dome Camera Control Panel

For more information on DVRRemote, see User's Manual.



## DVRRemote Playback

### To Playback Remote Video:

- Click <**Play**> on the main window toolbar, and then <**Remote Playback**> tab.
- The <**From**> and <**To**> on top of the screen display the date and time from which recorded video is available for playback.
- Choose <**Playback**> in <**Select**> field for playback recorded video.
- Select the date and time of the segment to play back from the <**Start**> field. The date and time can be changed either by typing desired numbers directly or using the arrow buttons.
- Click <**OK**> to start the playback, or click <**Close**> to abort.

### To Playback Local \*.drv File:

- Click <**Play**> on the main window toolbar, and then <**Local Playback**> tab.
- Click <**Open**> and the file selection screen is displayed. Select the \*.drv video file to playback and click <**OK**>.
- Click <**OK**> to start the playback, or click <**Cancel**> to abort.
- View the video playback using the Playback controls.
- To end the playback, click <**Live**> to return to live video.

### To Playback Local \*.avi Files:

- Start the windows media player or other media player from <**Start**> menu (or any other possible access).
- Select <**File**> and then <**Open**>.
- Select the wanted \*.avi file, and click <**Open**>.



**NOTE:** The \*.avi files for each channel are stored separately. Therefore the video can be played back in single channel, full screen mode only.

### To Playback Event Video

- Click **SEARCH** on the main window toolbar. The Event List appears.
- Scroll through the Event List and highlight the interested events.
- Double-click on the desired event to view the event video.

### Playback Controls:

