

## Mouse operation under the PTZ mode

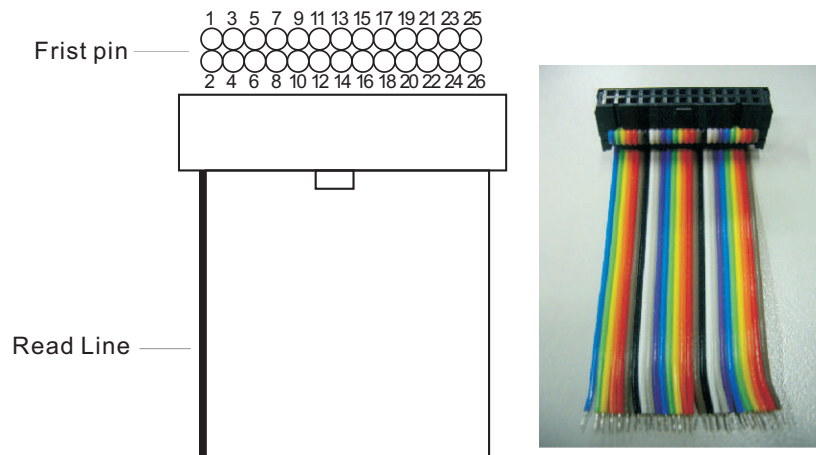
ICON	Description
	Leave PTZ Mode, back to the LIVE mode
	Pre-set number N. (1~64)
	Go to pre-set number N.
	Set current PTZ location at pre-set number N.
	「TOUR」, press to activate pre-set tour*
	「PIP」, Set current PTZ location as the start of line-scan. *
	「FREEZE」, Activate line-scan. *
	「ZOOM」, Set current PTZ location as the end of line-scan. *
	To move PTZ in 360°
	PTZ zoom in; PTZ zoom out
	PTZ focus in; PTZ focus out.
	PTZ IRIS open, PTZ IRIS close.

Below functions need support from specific PTZ manufacturer. Please check user manual of your PTZ for more detail.

	AUX 1, 「AUTO」 Key + Number key 「1」
	AUX 2, 「AUTO」 Key + Number key 「2」
	AUX 3, 「AUTO」 Key + Number key 「3」
	AUX 4, 「AUTO」 Key + Number key 「4」
	AUX 5, 「AUTO」 Key + Number key 「5」
	AUX 6, 「AUTO」 Key + Number key 「6」
	AUX 7, 「AUTO」 Key + Number key 「7」
	AUX 8, 「AUTO」 Key + Number key 「8」
	「Backup」, Customized function。

\*PTZ communication protocols from different brands aren't compatible 100% sometimes. Therefore, some of these functions may be unavailable.

## DB 26 Definition (For 16CH DVR only)



No.	WIRE	COLOR
1.	GND	BLUE
2.	GND	GREEN
3.	RS 485_B	YELLOW
4.	RLY1_NO	ORANGE
5.	RS485_A	RED
6.	RLY1_COM	BROWN
7.	VCC+5V	BLACK
8.	RLY1_NC	WHITE
9.	IR_LED	GRAY
10.	GND	AMETHYST
11.	SENSOR 1	BLUE
12.	SENSOR 2	GREEN
13.	SENSOR 3	YELLOW
14.	SENSOR 4	ORANGE
15.	SENSOR 5	RED
16.	SENSOR 6	BROWN
17.	SENSOR 7	BLACK
18.	SENSOR 8	WHITE
19.	SENSOR 9	GRAY
20.	SENSOR 10	AMETHYST
21.	SENSOR 11	BLUE
22.	SENSOR 12	GREEN
23.	SENSOR 13	YELLOW
24.	SENSOR 14	ORANGE
25.	SENSOR 15	RED
26.	SENSOR 16	BROWN

### Brief connection method instruction:

If it's connected externally to RS485 device (such as dome camera), please connect 485+ (positive charge) to the 5th cable and connect 485- to the 3rd cable.

If it's connected externally to sensor device (such as infrared sensor), please connect the positive charge of equipment to the sensor (1~16) needed to be triggered and connect the negative charge to any of GND cable (1, 2, 10.)

# 16CH-HA-1621 STANDALONE DVR

## Easy Operation Manual

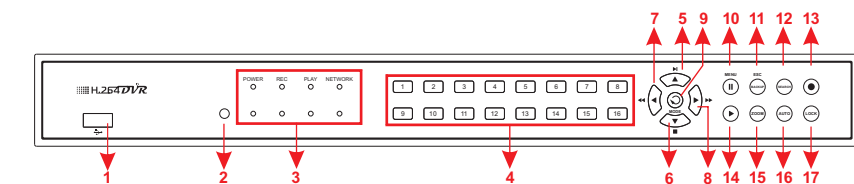
### Before Turning on DVR Power

- Please install SATA HD in the HD Rack. Connect each power cord and cable.

### After Turning on DVR power

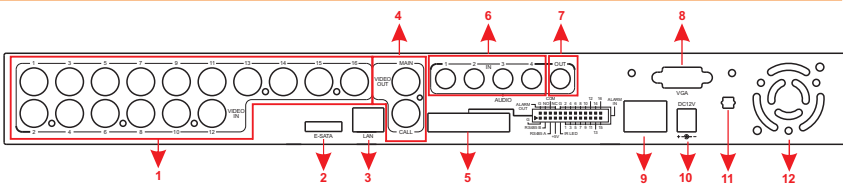
- DVR system operation spends around 20 seconds. Please wait for a while.
- Please log in DVR system's chapter 3 and 3.5 to setup the user's ID and password. Then, format the HD completely. (All HD must be formatted to use in record)

### Front Panel Controls



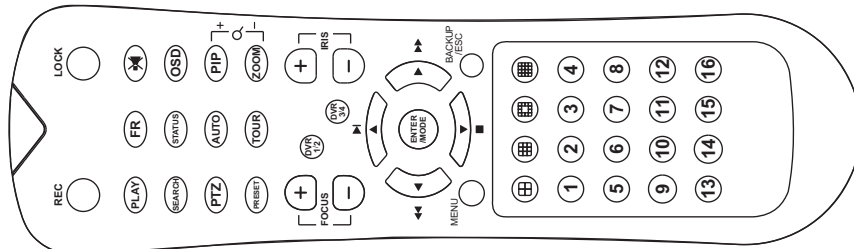
1		Port for USB external devices
2		Input sensor for the remote control
3	LED Display (From left to right)	Power: Power is on.
		REC: Recording
		PLAY: Playing back
4	Number keypad	LAN: Connected to the internet (in red): Remote user logged in.
		Number keypad can be used in selecting camera. Number keypad can be also used in keying number.
5		In SETUP mode, press to move cursor up. In PLAYBACK mode, press to slow down.
6		In SETUP mode, press to move cursor down. In PLAYBACK mode, press to stop playing back.
7		In SETUP mode, press to reduce value. In PLAYBACK mode, press to play rewind.
8		In SETUP mode, press to increase value. In PLAYBACK mode, press to play forward.
9		In SETUP mode, press to enter values. In PLAYBACK mode, switch between full, quad, 9-channel, 16-channel display in order.
10		In LIVE mode, press to display menu. In PLAYBACK mode, press to pause playback
11		In LIVE mode, press to display the BACKUP menu. In SETUP mode, press to return to previous page.
12		Display the search menu.
13		Start or stop recording.
14		Play back in normal speed.
15		In LIVE or PLAYBACK mode, enlarge the display of a channel.
16		In LIVE mode, cycle through all channels in full screen.
17		Enable/Disable the Keypad function

## Rear Panel Connectors



1	VIDEO IN	BNC input ports for cameras, 16 in total.
2	E-SATA	External SATA hard disks port.
3	LAN	Network port.
4	VIDEO OUT	BNC port for the main monitor. BNC port to display full screen image of all installed cameras in sequence.
5	I/O	EXTERNAL I/O port for DB 26 flat cables. (Please refer to the APPENDIX for pin definition.)
6	AUDIO IN	RCA input port for audio signal. There are 4 ports available. (corresponding to channel 1 to 4)
7	AUDIO OUT	RCA output for audio signal.
8	VGA	VGA port.
9	POWER	Power
10	DC 12V	Socket for a DC 12V input.
11	Cable Fitter	For fit the Power cord cable
12	Fan	DC 12V 40mm X 40mm fan.

## IR remote control operation manual



Button	Description
FR(FREEZE)	Turn on/off screen freeze function.
	Switch to quad display.
	Switch to 9-channel display.
	Switch to 13-channel display.
	Switch to 16-channel display.
	Switch channel 1 output audio / turn off LIVE audio
STATUS	Enable/ Disable Status.
OSD	Turn on/off the screen display
ZOOM/ZOOM-	Enable/ Disable double screen size display. You can click on the channel name for choosing a specific channel.
PIP/ ZOOM+	Turn on picture-in-picture format. Click on the channel name can switch to other channels.
PTZ	Enable PTZ control.
AUTO	In AUTO mode, all available channels will be cycled through in full screen by setting seconds.
DVR1/2, 3/4	DVR default ID is ID1 (DVR1). If the IR remote control can not be used normally, please press 「DVR1/2」 button to restart to correspond to ID DVR1.

DVR1/2, 3/4	Press 「DVR1/2」 button again to correspond to DVR2. Press 「DVR3/4」 button to correspond to ID DVR3. Press 「DVR3/4」 button again to correspond to DVR4.
PRESET	Setup the Preset location Press "PRESET" key first then two-digit number; DVR will set the current PTZ location at entered preset number.
TOUR	Activate PTZ pre-set tour. Different brands PTZ protocol can not 100% compatibility sometimes. As a result, this function may not be used.
FOCUS +	PTZ focus-in.
FOCUS -	PTZ focus-out.
IRIS +	PTZ focus-out.
IRIS	PTZ iris-close.

## Graphical icons that will display after right-clicking your mouse under LIVE mode

ICON	Description
	Resting the cursor on this icon will bring up the following four menu icons.
	Main menu.
	Search menu
	Backup menu.
	PTZ mode.
	Turn on/off recording.
	Playback.
	Resting the cursor on this icon will bring up the following five display icons.
	FREEZE.
	PIP, picture in picture
	ZOOM, double the screen size
	AUTO-sequence
	LOCK, activate the key lock.
	Full screen display
	Quad display.
	9-channel display.
	13-channel display.
	16-channel display.

## Description of on screen graphical icons in LIVE mode

ICON	Description
	Recording is on
	Live Audio is on
	Live Audio is off
	Motion detected on the channel
	Sensor triggered on the channel
	Video loss detected on the channel
	USB device detected
	DVD burner is detected
	Connected to the LAN cable.
	Timer recording is on Red : Timer is set and recording has been started White : Timer is set but recording has not yet been started
	AUTO-seq is on
2X	2X zoom in is on
	Freeze is on, screen is frozen
	LOCK is on
	PTZ control is on
IR 1~4	IR remote control's signal has been set to 1-4. Meanwhile, IR remote control ID must be the same with DVR ID in order to control.(DVR default ID is 1)

## Accessory

1. IR Remote controllerx 1 PCS
2. Mouse x 1 PCS
3. Manual CD x 1 PCS
4. Quick Start Guide x 1 PCS
5. HDD screwsx 8 PCS
6. Battery x 2 PCS
7. DB26 (for Alarm Io) x 1 PCS
8. AC100-240V/DC12V 4.16A power supply x 1

