08/ 16 CHANNELS H.264 DIGITAL VIDEO RECORDER INSTALLATION QUICK GUIDE

A. SPECIFICATION

VIDEO				
Model No.	08 CH		16 CH	
MODE	Triplex			
IMAGE SYSTEM	NTSC	PAL	NTSC	PAL
LIVE-TIME RESOLUTION	720x480	720×576	720x480	720×576
LIVE-TIME DISPLAY RATE (Frame / Sec)	08×30	08×25	16×30	16×25
SPLIT SCREEN	1, 4, 8,9		1, 4, 9, 13, 16	
VIDEO INPUT	BNC $\times$ 08		BNC $\times$ 16	
VIDEO LOOPING	BNC $\times$ 08		BNC $\times$ 16	
VIDEO OUTPUT (BNC)	BNC $\times$ 1		BNC $\times$ 1	
VIDEO OUTPUT (SPOT MONITOR)	BNC $\times$ 1		BNC x 1	
VIDEO OUTPUT (S-VIDEO)	Yes			
VIDEO OUTPUT (VGA)	Yes			
AUDIO				
AUDIO INPUT	RCA $\times$ 1			
AUDIO OUTPUT	RCA $\times$ 1			
AUDIO BACKUP	Yes			
AUDIO STREAMING	Yes			
RECORDING				
COMPRESSION TYPE	H.264			
RECORDING RESOLUTION (HALF D1)	NTSC:720×240 PAL: 720x288			
RECORDING RESOLUTION (CIF)	NTSC: 360x240 PAL: 360x288			
RECORDING RATE (HALF D1)	NTSC: 720 x 240 up to 120 PPS PAL: 720 x 288 up to 100 PPS		NTSC: 720 x 240 up to 120 PPS PAL: 720 x 288 up to 100	
RECORDING RATE (CIF)	NTSC: 360x240 up to 240 PAL: 360x288 up to 200		NTSC: 360 x 240 up to 240 PPS PAL: 360 x 288 up to 200	
RECORDING MODE	Manual / Schedule / Alarm			
PLAYBACK & SEARCH				

PLAYBACK SPEED	Fast Forward X 2 X 4 X 8 Fast Backward X 2 X 4 X 8 field by field Playback Pause
TIME SEARCH	Yes
EVENT SEARCH	Yes
EVENT LIST	3000 records per H.D.D (Maximum)

OSD & CONTROL INTERFACE	
TITLE	8 Characters
ON SCREEN DISPLAY & SETUP	Time / Date / Setup Menu
GRAPHIC USER INTERFACE (GUI)	Yes
DVR CONTROL PANEL	Yes
MOUSE	Yes
IR REMOTE CONTROLLER	Yes
IE BROWSER	Yes
PLAYER	Yes

STORAGE & BACKUP DEVICE	
INTERNAL HDD SUPPORT	SATA HDD x 2
USB BACKUP	Yes
DVD RW BACKUP	Yes (DVD-RW)

NETWORK	
ETHERNET	Yes
ETHERNET COMPRESSION FORMAT	H.264
IE REMOTE CONTROL	Yes
DDNS	Yes
NTP	Yes
E-MAIL & FTP	Yes
NETWORK IP	Static/ Dynamic/ PPPoE
MULTI-REMOTE CLIENT	Yes (4 Clients at the same time available)
3GPP	Yes (MPEG-4)
PDA/Phone Support	Yes (MPEG-4)

ALARM		
ALARM INPUT	08 In (NO/ NC)	16 In (NO/ NC)
ALARM OUTPUT	1 Out (NO/ NC)	1 Out (NO/ NC)

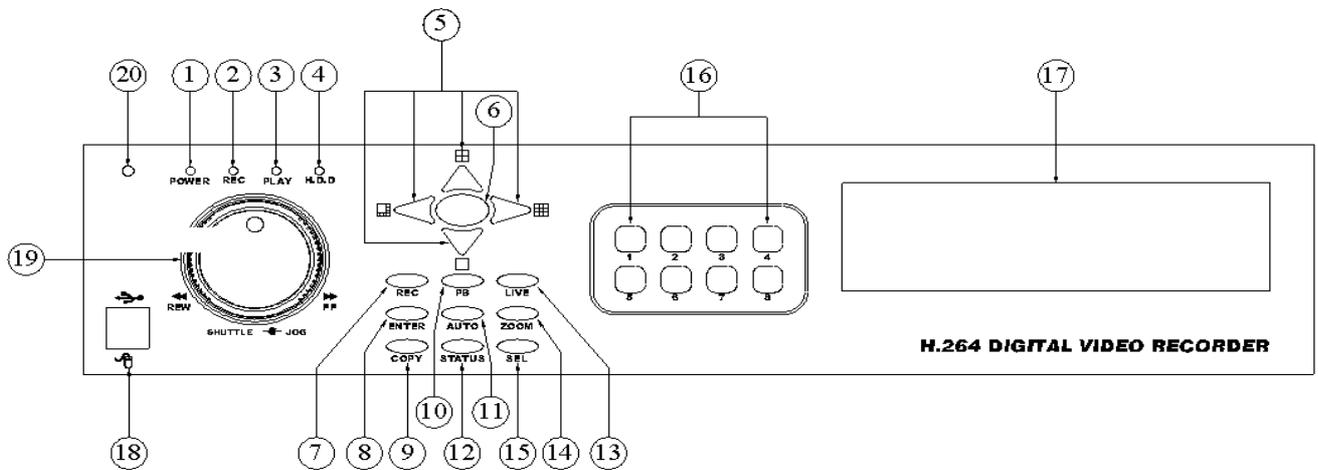| MOTION DETECTION	Yes	
MOTION DETECTION AREA	30 x 24 grids	
MOTION DETECTION SENSITIVITY	1-100	
VIDEO LOSS DETECTION	Yes	
ALARM RECORDING	Yes	
BUZZER	Yes	
SETUP & OTHER FUNCTIONS		
DAYLIGHT SAVING TIME	Yes	
PTZ CONTROL	Yes	
RS-232	Yes	
RS-485	Yes	
DIGITAL ZOOM	Yes	
PASSWORD CONTROL	Three levels, one for system, one for HDD format and the other for Network Password.	
KEY-LOCK	Yes	
MULTI-LANGUAGE	Yes	
FIRMWARE UPDATE	USB Host & Update on line	
OTHERS		
POWER INPUT	AC 100V~240V	AC 100V~240V
POWER CONSUMPTION (W)	24W (Without HDD)	24W (Without HDD)
DIMENSIONS (W x H x D)	430mm x 88mm x 382mm	430mm × 88mm × 382mm
WEIGHT (kg)	6.3	6.3
OPERATION TEMPERATURE	0 - 45 ℃	

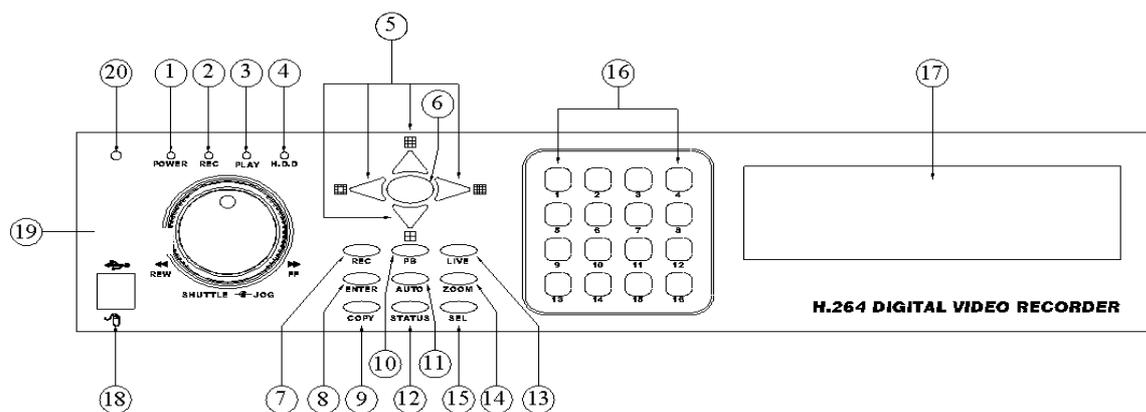*** SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE**

B. PACKAGE CONTENT

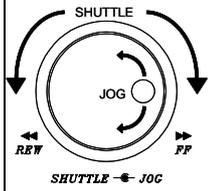| NO.	ITEM	AMOUNT
1	DVR	X1
2	Power Cable	X1
3	Adaptor	X1
4	CD Disk	X1
5	Screw Package	X2
6	Quick Guide	X1
7	Mouse	X1
8	Remote Controller	X1
9	Extension Board for RS232/485	X1
10	Extension Board for I/O	X1

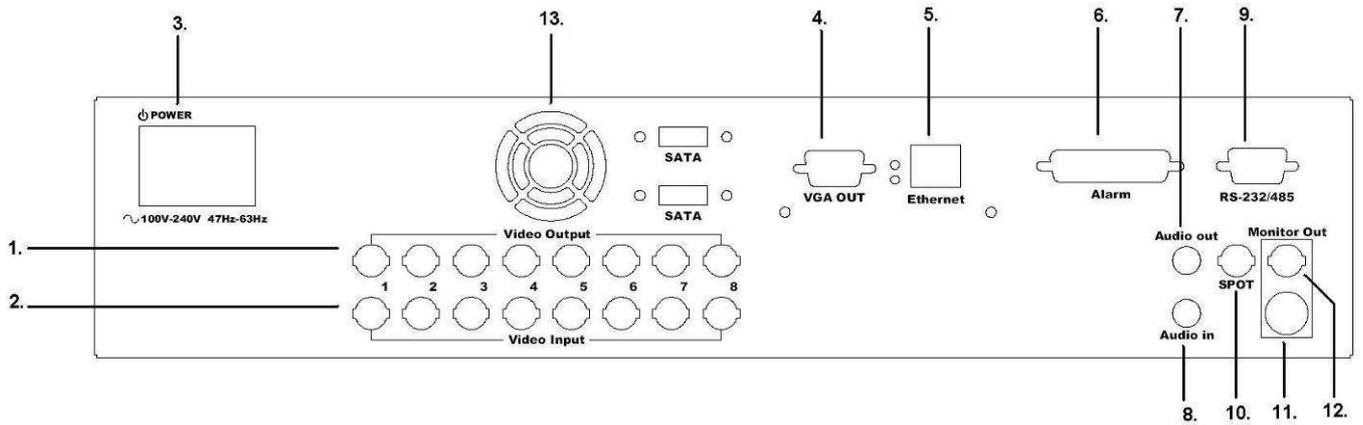# C. HARDWARE OVERVIEW

FRONT PANEL

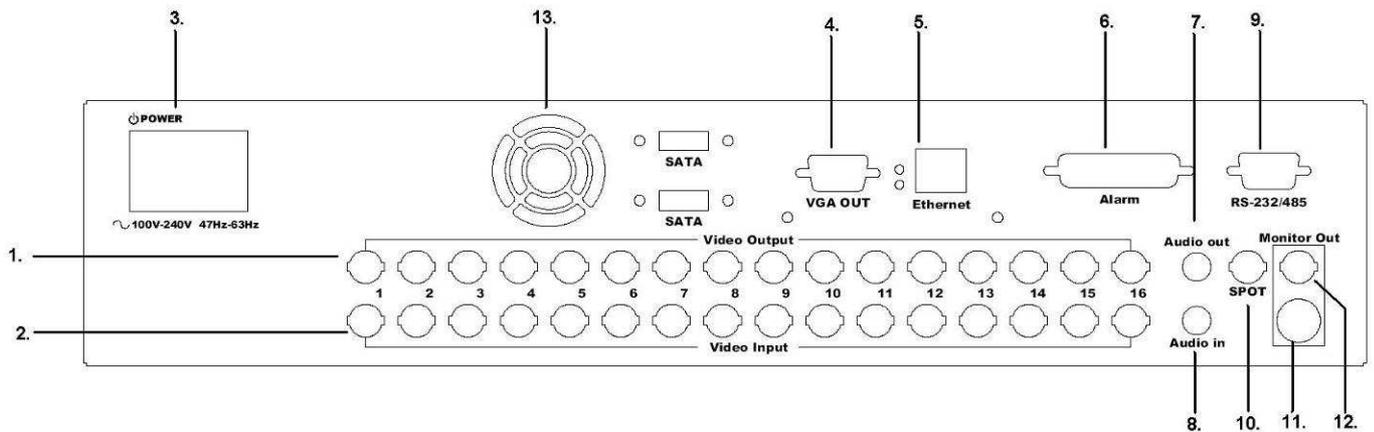**08-CH DVR FRONT PANEL**

16-CH DVR FRONT PANEL

DVR OPERATION

NO.	LABEL	OPERATION	PTZ
1	**POWER**	Power LED Indicator	
2	**REC**	Recording LED Indicator	
3	**PLAY**	Play LED Indicator	
4	**H.D.D**	H.D.D LED Indicator	
5	**▲▼◄►**	Button Of Controller. Button Of Switching Channel.	UP, DOWN, LEFT & RIGHT
6	**MENU**	Press MENU to entry or exit main menu	
7	**REC**	Press REC to start recording. Press again to stop	
8	**ENTER**	Press ENTER button to make choose or move cursor forward or make confirm in MENU system	
9	**COPY**	Backup video or picture to USB or CDRW	Narrow key
10	**PB**	Playback for TIME SEARCH or EVENT LIST.	
11	**AUTO**	Press AUTO to switch channel by channel automatically	
12	**STATUS**	Display the status of H.D.D. and USB devise	Zoom button
13	**LIVE**	Live viewing	
14	**ZOOM**	Zooming	
15	**SEL**	Press this button to select the different assembled of camera formats.	
16	**1-8 / 1-16**	Press the button to display full screen.	
17	**CDRW**	Slot for CDRW	
18	**↤• / 🖰**	USB or Mouse connector	
19	**SHUTTLE & JOG**	SHUTTLE: FAST FORWARD　×2 ×4 ×6 ×8 FAST BACKWARD ×2 ×4 ×6 ×8 JOG: PICTURE BY PICTURE PLAYBACK	
20	◯	IR Sensor for remote control	

Note: 1. User can select camera by using the channel keys on DVR front panel. For example, user can press "+10" key and then press "6" key to see the 16th channel image.

2. Under the Full and 16 split screen condition, press SELECT button to switch AUDIO ON/OFF.

3. Please plug in the supplied mouse to DVR mouse connector before turn on the DVR. DO NOT REMOVE and PLUG IN the supplied mouse while DVR is operating.

BACK PANEL

08-CH DVR FRONT PANEL

16-CH DVR FRONT PANEL

NO.	LABEL	OPERATION
1	**VIDEO OUTPUT**	Video output with BNC connector.
2	**VIDEO INPUT**	Video input with BNC connector.
3	**POWER**	Power switcher: DC12V & AC100V~AC240V / 47-63Hz input.
4	**VGA D-SUB OUT**	Connect to CRT or LCD monitor.
5	**ETHERNET**	RJ-45 connector for network.
6	**ALARM**	25 pin D-Sub connector for Alarm input/ output.
7	**AUDIO OUT**	Audio output.
8	**AUDIO IN**	Audio input.
9	**RS-232 / RS-485**	9 pin D-Sub connector for external control unit.
10	**SPOT**	SPOT video output.
11	**MONITOR OUT**	Video output with S-Video connector.
12	**MONITOR OUT**	Video output with BNC connector.
13	**FAN**	Cooling fan.

D. QUICK INSTALLATION

Following installation example based on 16 CH Model.

NO.	LABEL	OPERATION
1	POWER CORD	Connect with the power cord.
2	LCD MONITOR	Connect LCD monitor to VGA OUT
3	ETHERNET LOUTER	Connect router to Ethernet port
4	ALARM	Connect alarm to alarm port
5	CAMERA	Connect camera(s) to 1-16 video input
6	SPEAKER	Connect speaker to audio out.
7	MIC	Connect MIC to audio In.
8	CRT MONITOR/ TV	Connect CRT monitor or TV to Monitor Out or S-Video

E. QUICK OPERATION

E-1. RECORD

Press REC button on the DVR front panel/ button on the pop-up toolbar to activate record

immediately. Moreover, click within the main menu to perform record setup.

E-2. PLAYBACK

Press button on the DVR front panel to entry **PLAY SEARCH** and start playback. Moreover, press

 button on the pop-up toolbar under the live viewing mode to entry **PLAY SEARCH** and start

playback.

PLAY SEARCH

1. **PLAY TIME SEARCH**: Double click left button of the mouse and set start and end time to perform play time search.

2. **EVENT SEARCH**: Double click left button of the mouse to trigger event search. Moreover, use TYPE and CHANNEL two options to perform the advanced search.

E-3. BACKUP

First, insert USB device into a USB port of the DVR or put blank CD/DVD into CD RW/ DVD RW burner. Then, while using USB device to backup, use the mouse wheel to select the start and end time and

click to start backup. Furthermore, select the start and end time and click to start backup when
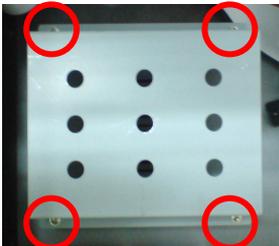
using blank CD/DVD.

NOTE: 1. Make sure the selected backup time is among record time.

2. For more detailed operation information, please see the attached User Manual carefully.

F. HDD QUICK INSTALLATION

*Below example is based on 08 CH Model.

* For detailed Hard Disk Compatible Table, please refers to the attached User Manual.

1	Loose 1 screws on the back and 4 screws on two sides to remove DVR cover.

2	Remove the 4 fixed screws of the HDD holder	3	Insert HDD(s) and tight up the screws on two sides of HDD holder. Or fixed in the machine under.

4	Connect the power and data cable (s).

Single HDD: Use any socket

Twin HDD: Connect the "MASTER" tab data cable is recognized as HDD 1

Connect the "SLAVE" tab data cable is recognized as HDD 2

5	Refit the HDD holder back and screw it tightly

6	Refit the top cover and screw all the screws back.

G. NOTIFICATION

Important
Warning: Before Installation (Don't void your warranty)

Power off the DVR if it is found smoking or smells unusual.

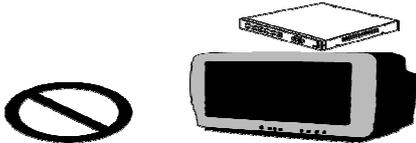Keep the DVR away from the water. If the DVR is wet, unplug it.
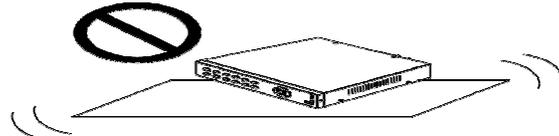
Contact your distributor when such cases happen.

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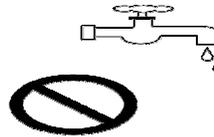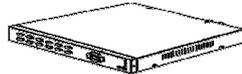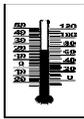Do not place the DVR around a heat source, such as television or oven.

Refer to your user's manual for the proper operating temperature.

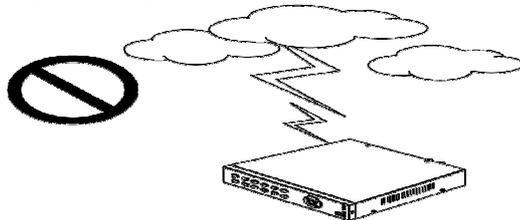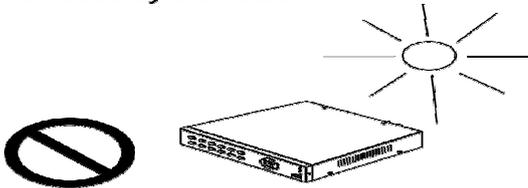Keep the DVR away from direct sunlight or direct heat.

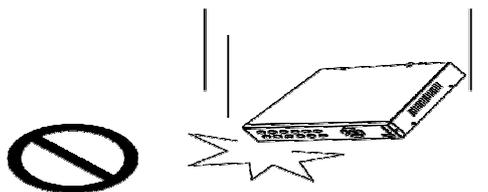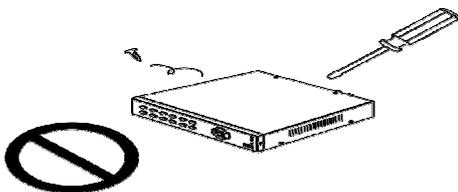Do not place the DVR in high humidity environments.

Do not place the DVR on an unsteady surface.

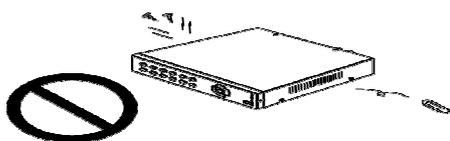Do not touch the DVR when lightening is present.

Do not disassemble the DVR.

Do not drop the DVR

Do not insert any object into the DVR, such as a needle.

Failing to abide these rules can automatically void your warranty and holds our company harmless from damages, injury, or death. Be safe.