

4Ch Real time / Duplex

LCD Combo DVR

A Complete Consumer Security Product for Anyone



5in1

- Surveillance
- AV Input
- Triplex Function
- USB2.0 Backup
- Mouse



The most stable and reliable real stand alone Digital Video Multiplex Recorder

INSTALLATION & SAFEGUARDS

All the safety and operating instructions should be read before the unit is operated.

Environment Condition for Installation

1. To prevent electric shock or other hazard, do not expose units to rain, moisture, or dust.
2. Place this unit in a well-ventilated place and do not place heat-generating objects on this unit.
3. This unit should not be located in an area where it is likely to be subjected to mechanical shocks.



Before You Start

1. Ensure the power switch is in the OFF position prior to starting.
2. Do not attempt to open or remove the covers. That may expose you to dangerous voltage or other hazards.
3. Installation should be performed by qualified service personnel only.
4. This unit should be operated only from the type of power source indicated on the manufacturer's label and with the power supply included with the unit.



Notice

1. Before initial configuration or operation you must first set the TIME/DATE, followed by HDD clear. If you don't follow this steps first, that may cause non recording on the HDD or non saving setting value. Even though it is recorded, you cannot search recorded data.
2. When it comes to HDD capacity, you can use a big size of HDD.
3. When you set the record setup, you have to set the Record Configuration and also Schedule Setup. This unit records as per the Record type & Schedule setup. The default setting value for Schedule setup is Continuous mode.

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CHAP 1. Features & Package Contents

1-1. Features

Live Display

Real time display per camera
Auto Sequence
Simple playback mode

Record

Variable Record resolution (For higher picture quality or higher recording speed)
Efficient Image Quality step in 5 steps
Schedule recording
Event Record by alarm and motion detection

Playback

Search and playback by recorded data size and date/time

Various steps in forward playback speed (X2, X4, X8, X16, X32 fast playback. 1/16, 1/8, 1/4, 1/2 slow playback)
Various steps in backward playback speed (X2, X4, X8, X16, X32 fast playback. 1/16, 1/8, 1/4, 1/2 slow playback)

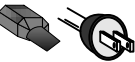
Data backup

Flash Memory Backup
Supports bigger capacity of HDD

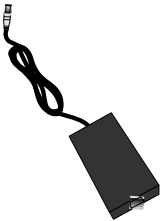
1-2. Package Contents



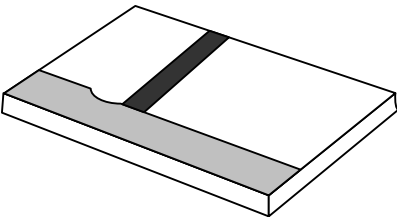
1. DVR Main Unit



2. Power Cable



3. Power Adapter



4. User's Manual



5. Software CD



6. Bolts

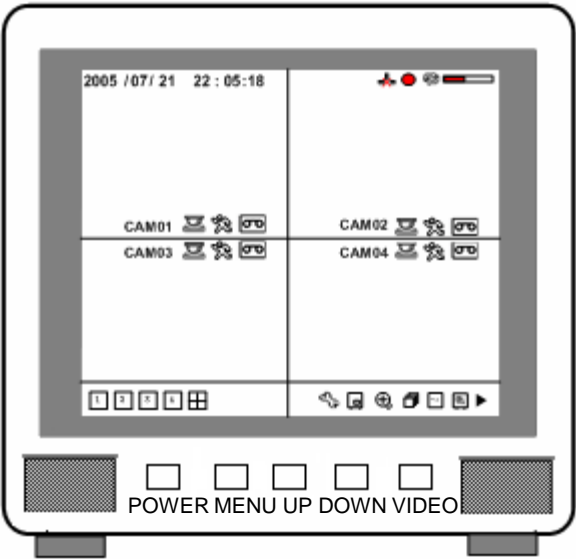


7. Remote Control

Package Contents	Description
1. DVR Main Unit	Stand-Alone Digital Video Recorder
2. Power Cable	AC power supply to adapters for 12V DC power
3. Power Adapter	DC power supply
4. User's Manual	User's Manual
5. Software CD	Remote Viewer Software & Backup CD Player
6. Bolts	Bolts for fixing HDD
7. Remote Control	Recorder System Operation

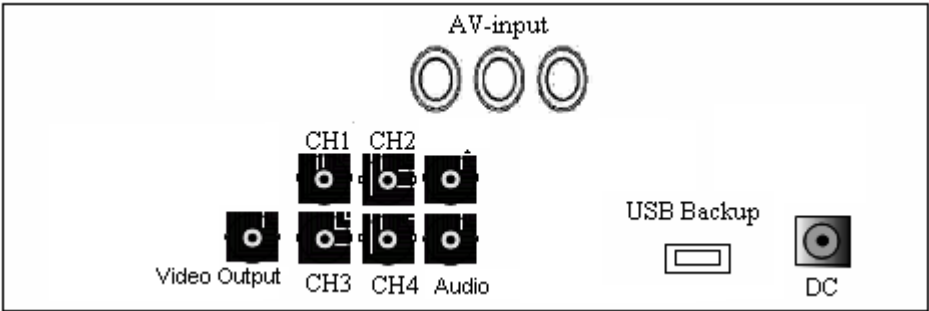
CHAP 2. Function of Each Button

2-1. Front

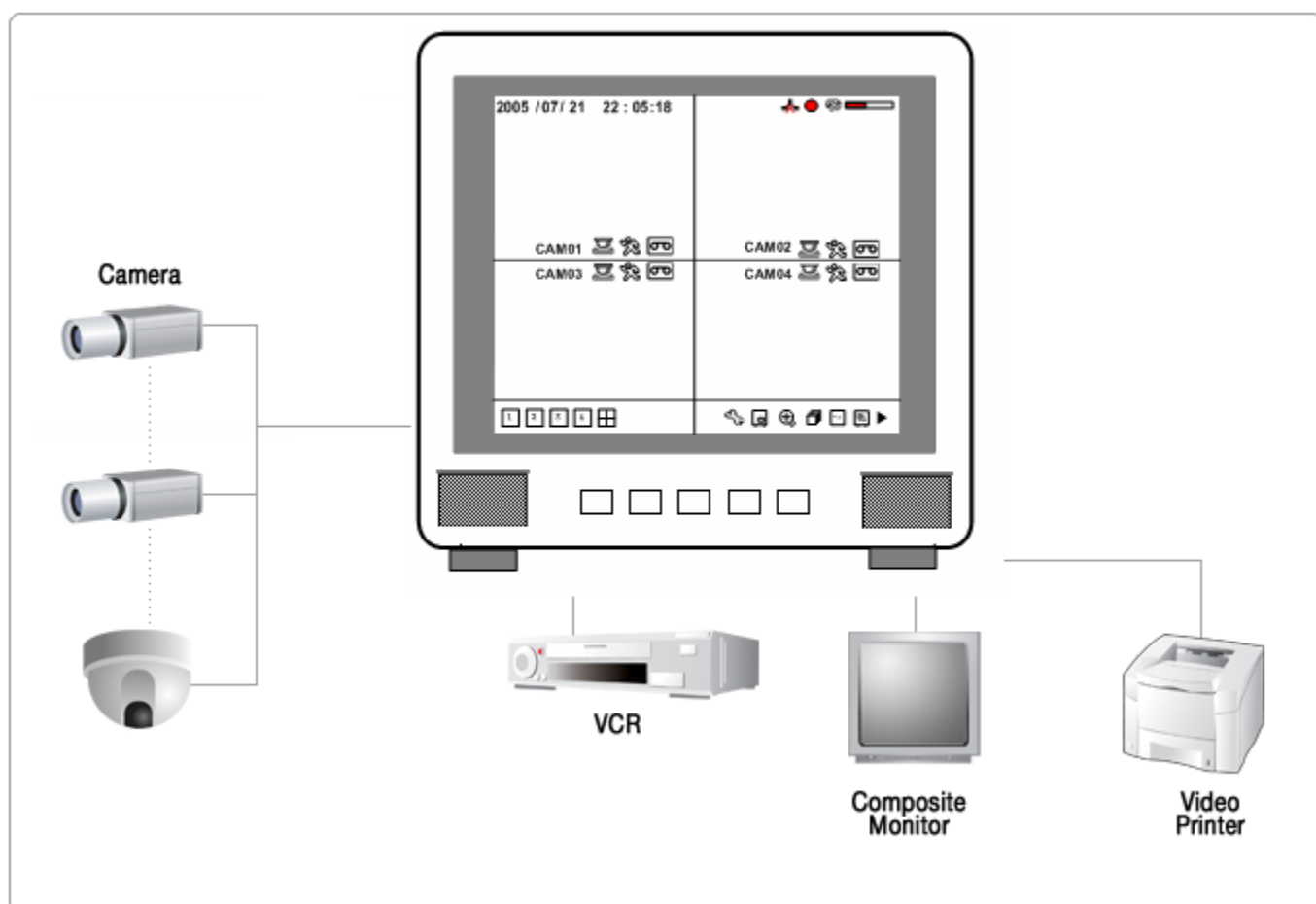


Name	Function
POWER	Power Switch for Display ON/OFF
MENU	Display adjust setup Menu
UP	Select the Menu/ Volume Up
DOWN	Select the Menu/Volume Down
VIDEO	Source switch DVR/AV

2-2. Rear

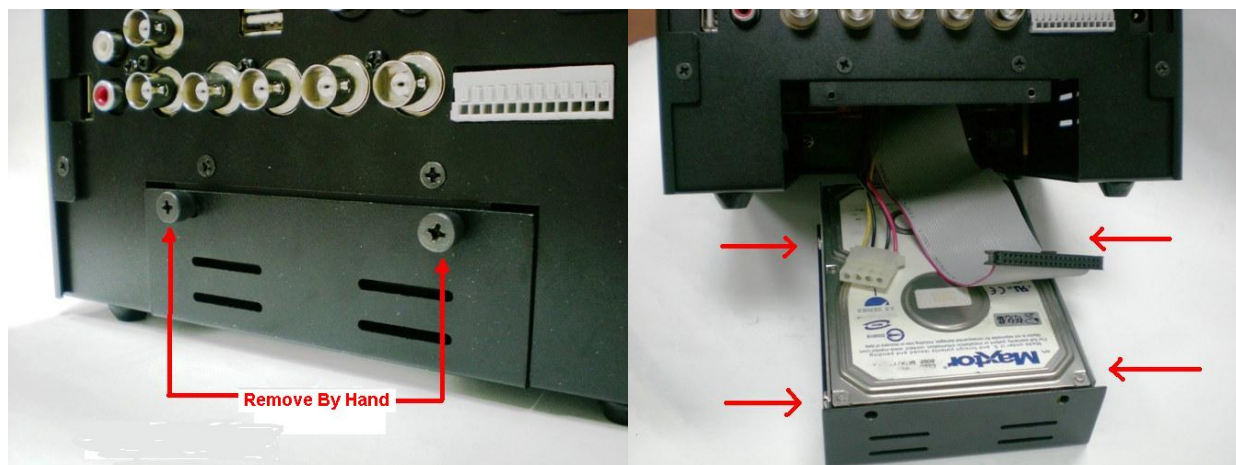


	Name	Function
1	CAMERA Input	Connection with camera (NTSC / PAL)
2	MONITOR Output	Connection with Composite Monitor (NTSC / PAL)
3	USB Backup	Used for backup image file
4	External AV-input	Connect to others AV devices.
5	DC Power	DC over 12V adapter

CHAP.3 Installation**3-1. Installation Configuration**

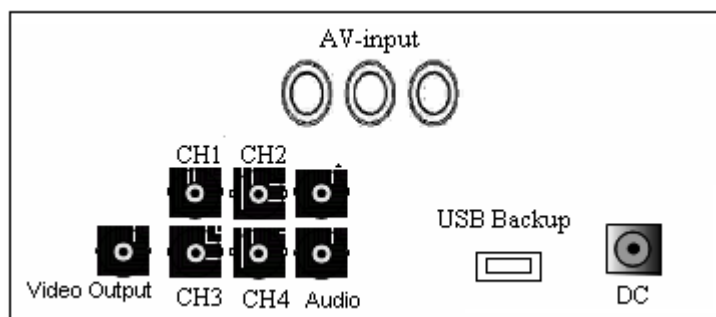
3-2. Detailed Installation

1) HDD



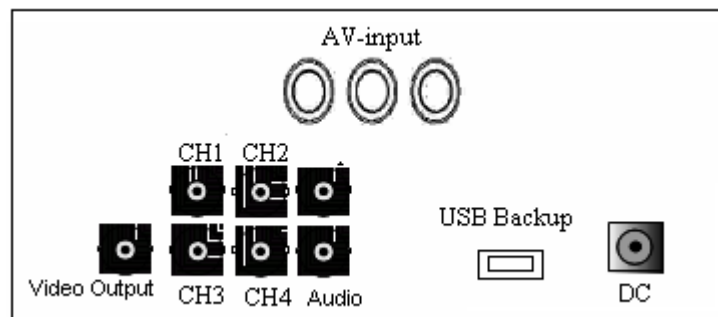
Connect Main Board and HDD using SATA cable and SATA power cable.

2) Camera



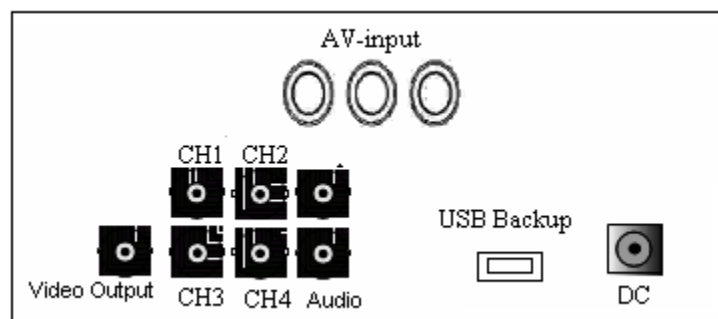
Connect camera to the camera input on rear panel of DVR marked CAMERA IN.

3) Monitor

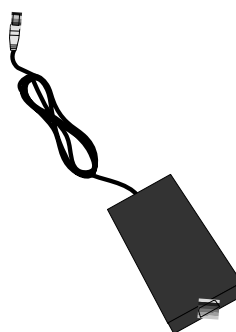


Connect the video output to Video-In of Main monitor.

4) Power



DC over 12V adapter





NO.	Description
1. Brightness	Adjust the Brightness for the display setup (0~100)
2. Contrast	Adjust the Contrast for the display setup (0~100)
3. Color	Adjust the Color for the display setup (0~100)
4. Language	English, French, German, Italian, Traditional Chinese, Simple Chinese, Japanese, Portuguese
5. Mute	Stop the voice output from front speaker
6. Reset	Reset the setup to default
7. Exit	Exit the Menu

4-1. Recorder System Operation



CH-1	CH-2	Record
CH-3	CH-4	Quad/Switch
Mute	Up	Menu
Left	Set	Right
Fast Reverse	Down	Fast Forward
Play	Pause	Stop

Default Password --- 111111

CHAP. 5 Specifications

- MJPEG Compression Algorithm
- Real time live display in all channels
- Duplex (Playback/Recording)
- Easy operation by remote control
- USB port for video backup

Multiplex function		Duplex (Playback/Recording)	
Storage Capacity	Internal	HDD	High capacity HDD support
		USB Socket	For Backup
Video	Inputs	Composite	4Ch
	Outputs	Composite	Monitor
	Compression	MJPEG	
	Compression Rate	NORMAL	
		HIGH	
		HIGHEST	
	Live Display Speed	Real Time Live Display	
	Recording Mode	Time, Motion, Schedule	
	Search	Event Search, Date/time Search, Percent Search	
	Recording Speed (NTSC/PAL)	Max. 60FPS(NTSC) 50FPS(PAL)	
	Recording Resolution (NTSC/PAL)	Half D1 (704x240/704x288), CIF (352x240/352x288)	
Switching Interval		1~99 Sec selectable	
Live Division Screen		1 / 4 Split	
Backup		USB Back up	
Firmware upgrade		USB Port for firmware upgrade	
Power Requirements		12V / 4A	
Weight		3.7 Kg	
Dimensions (WXHxD)mm		(195 x 195 x 143) mm	
Packing			

Design and specifications are subjected to changes without notice.