Thank you for purchasing our product. Please read this User Manual before using the product.



CCT715 4-Way Digital Video Recorder



Version 002/AUG2005





This label may appear on the bottom of the unit due to space limitations.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of insulated dangerous voltage within the product's enclosure that may be sufficient magnitude to constitute risk of electrical shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE UNITS NOT SPECIFICALLY DESIGNED FOR OUTDOOR USE TO RAIN OR MOISTURE.



Attention: installation should be performed by qualified service Personnel only in accordance with the National Electrical Code or applicable local codes.

Power Disconnect. Units with or without ON-OFF switches have power supplied to the unit whenever the power cord is inserted into the power source; however, the unit is operational only when the ON-OFF switch is the ON position. The power cord is the main power disconnect for all units.



"CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instruction."

Warranty and Service

During the warranty period (one year), we will repair or replace the DVR free of charge.

About this document

Before installing the stand alone DVR, be sure to thoroughly review and follow the instructions in this User Manual. Pay particular attention to the parts marked **NOTICE**.

Before reading this document

- 1. This document is intended for both the administrator and users of stand alone DVR Model.
- 2. This manual contains information for configuring, managing and using stand alone DVR Model.
- 3. To prevent fire or electrical shock, do not expose the product to heat or moisture
- 4. Be sure to read this manual before using stand alone DVR Model.
- 5. For questions and technical assistance of this product, contact your local dealer.
 - Strong recommendation on installation of the DVR unit
- 1. Check electricity at the place you want to install the DVR unit is stable and meets our electricity requirements. Unstable electricity will cause malfunction of the unit or give critical damage to the unit. It is recommended that this unit is connected to a power surge protection unit.
- 2. Several chips on the main board of the DVR unit and hard disk drive inside the unit generate heat, and it must be properly discharged. Do not put any objects just beside exhaust port(fan) on the left side of the unit and do not cover the opening (fresh air in-take) on the right side of the unit.
- 3. Put the DVR unit in a well-ventilated place and do not put heat generating objects on the unit. When it is installed in a mounting rack together with other devices, please check that the built-in ventilation fan in the rack is running properly.



COMPACT FLASH CARD READER



	4 QUAD SCREEN MODE BUTTON/ MODE FUNCTION KEY/ 4 OR 9 SPLIT DISPLAY ON PLAYBACK
CHANNEL 1/2/3/4	CHANNEL 1/2/3/4 FULL SCREEN BUTTONS
FREEZE	PICTURE FREEZE MODE BUTTON
ZOOM	PICTURE ZOOM x 2 MODE BUTTON
W.MARK/AUTO	WATER MARK FUNCTION BUTTON/AUTO
BACKUP/PIP	
	IMAGE BACKUP BUTTON/PICTURE IN PICTURE MODE BUTTON

DIRECTION BUTTON UP PLAYBACK STOP BUTTON

REVERSE PLAYBACK BUTTON

ENTER/AUDIO BUTTON SUB MENU ENTER

AUDIO ON/OFF

STILL PLAYBACK



FORWARD PLAYBACK BUTTON

STILL PLAYBACK

DIRECTION BUTTON DOWN PLAYBACK PAUSE



MENU PRESS THIS BUTTON TO DISPLAY MENU SETUP

ESC/LOCK SUB MENU EXIT BUTTON - KEY LOCK FUNCTION

PLAY PLAYBACK BUTTON

REC RECORD BUTTON





FIRMWARE UPGRADE PORT

ISP RS232 CONNECTOR



ALARM ALARM CONNECTOR

750 MONITOR S-VIDEO

OFF

ON

AUDIO

IN

AUDIO CHANNEL INPUT

AUDIO CHANNEL OUTPUT

CAM1 CAM2 CAM3 CAM4 DC 12 5/ OUT OUT OUT OUT

75 OHM ON/OFF (HIGH/LOW ADJUST)

S - VIDEO (Y/C) MONITOR OUT

.

ALARM

ISP

RS485

+ -

.....

MONITOR OUTPUT

VIDEO LOOP THROUGH

5A 12V DC POWER IN CAMERAS IN 1 - 4

OFF

ON

POWER 12v DC/5A ON/OFF





Unit Description of Rear Panel

Installation

Procedure

1) Camera Connection

Connect the camera to the CAMERA INPUT on the Rear Panel of the 4 CH DVR.





Connect the monitor to the MONITOR OUT on the Rear Panel of the 4 CH DVR.



3) Monitor Connection

Connect S-VIDEO Monitor to MONITOR OUT on the Rear Panel of the 4 CH DVR.



4) Sensor Connection

Connect the Sensor to the SENSOR INPUT/ OUTPUT on the Rear Panel of the system



13,12,11,10,9,8,7,6,5,4,3,2,1

25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

1.ALARM0 2.ALARM1 3.ALARM2 4.ALARM3 23.ALARM NC 24.ALARM NO 25.ALARM COM 5. ~ 19. GND

Relay output : COM+NC, COM+NO

- Alarm input : Short-circuit between Alarm0, Alarm1, Alarm2 or Alarm3 and GND is recognized as
- alarm by default.Alarm0~3 will be corresponding to Camera1~4.

NOTICE: Sensor input is RECOGNIZED as LOW when alarm signal is on a level with GND, and it is

recognized as HIGH when alarm signal is FLOATING or 5V. Following is internal circuit.



Thus, there is a danger of damage, when the sensor input goes to a Negative level or voltage higher than 5V.

5) HDD connection



- 1. Make sure the HDD is MASTER.
- 2. Make sure the cable connector is correct.
- 3. Please check the HDD panel for Master set up.
- Make sure the HDD is MASTER or SLAVE.
- 2. Make sure the cable connector is correct.
- 3. Please check the HDD panel for Master and Slave is set up.

Notice:

-This 4 CH DVR is capable of accomodating a maximum of 2 internal hard drives.

- Hard Disk Master and Slave jumper pins must be set correctly, otherwise DVR will not function.
- 400 Gb Hard Drives are not compatible with this unit. Unit takes 2 x 300 Gb Hard Drives maximum.



Full screen or quad screen display

Press quad button to display 4 quad screen.

Press numeric 1 / 2 / 3 / 4 buttons to display a desired camera image in full screen.

1.) FREEZE Mode

1. In live and the quad mode press (FREEZE) button to freeze image.

Press again to cancel freeze mode.

2. On the full screen display, press FREEZE) button to freeze full screen image.

2.) Zoom Mode(Display Enlargement.)

Go to full screen mode with numeric buttons in live or playback

mode, then press ZOOM button to display screen Enlargement.

Use button to move position.

3.) Auto Mode

Press (AUTO) button to start screen auto sequencing, and press it again to cancel auto mode.

4.) W.MARK. Water Mark mode.

Water Mark protection function on or off. To prevent hacker using special software to modify the image data. System Setupà Watermark Check mode On. Press W.Mark button to on or off. (Playback mode only)

5.) PIP (PICTURE IN PICTURE)

1	1	Pres

s (PIP) button. Press 🛲 (AUTO) button to start sub-screen auto sequencing.

Main pic	ture	
	Sub picture	

2) With button, select the main channel screen, press

button to select desired camera channel in

small screen.

6.) BACKUP / PIP. Image backup mode. (Image backup works in playback mode only.)

Locate the playback point you want. Press BACKUP, the BACKUP CAUTION window pops up. Press ENTER to begin data back up. Capacity of CF card is not limited, but the maximum capacity display is 9999MB. In playback mode, press BACKUP:

Lower-Right corner of the screen:

** BACKUP CAUTION ** ALL DATA IN THE CF CARD WILL BE CLEARED. PRESS [ENTER] TO BACKUP. PRESS [BACKUP] TO CANCEL.	
	0000M / 0256MB

0000MB / 0256 (Presently back up progress / Total capacity of CF card)

Important:

If the CF card contains old data, please format CF card to FAT or FAT32 on a computer before inserting in DVR CF card slot. Otherwise, DVR will not detect correct CF card format. Any brand of CF card is acceptable.

Additional:

During playback, if a CF card is full or if user presses the BACKUP button, the screen will display a "PAUSE" caption. User then takes out the CF card then saves data to P.C hard disk using the USB connection. After this, re- insert the CF card in the DVR slot, and press BACKUP again. Press ENTER to continue backup or backup button to cancel.



7.) Alarm Sensor Recording

>See the alarm recording setup page

8.) Scheduled Recording

>See the scheduled recording setup page

9.) Motion detection Recording

>See the motion detection recording setup page

10.) Key Lock function

>In the Live or Playback mode, press (lock). Only numeric, freeze, auto, pip, and zoom buttons will work. Press lock key again to enter the login-in window. Enter admin or user password to unlock. Key lock function only accepts correct password log-in, even following a DVR reboot.
10.)

LOCK

11.) AUDIO function))))

))))	xxxxxxxx



Audio playback: Press **AUDIO** / ENTER,))))))displays on the Upper-left of screen. At that time, audio will playback. Press it again to turn it off.

Notice

Audio playback only on normal(x 1) playback.



1. Playback Mode

1) Press

button to begin playback.

System plays back the images in reverse.

2. T-SRH button

1) T-SRH: Playback by time search.

Press T-SRH button to activate playback function.



Press direction button UP/DOWN to choose items. MAIN PLAY PAGE 1.MASTER TIME LIST 2.SLAVE TIME LIST 3.MASTER EVENT LIST 4.SLAVE EVENT LIST 5.GOTO DATE: 2004/12/31 6.GOTO TIME: 12:12 7.GOTO PLAY

1) TIME LIST (Playback image by Time-Search): Recorded images list (by hours)

Y/M/DH/M	TIME LIST Y/M/DH/M	

Y / M / D H / M (Beginning of recording time) Y / M / D H / M (End of recording time) Every playback data list displays by the hour.

No page display limit. 10 items displayed on each page.



Press direction button UP/DOWN to choose items.

Press values change button to change to previous / next page. \triangleleft \triangleright

2) EVENT LIST (Alarm List): Event source- Video loss / Alarm trigger / Motion / Record



10 items displayed on each page. A total of 5000 items displayed across 500 pages. Note that a maximum of 5000 items are only displayed.

Time Format Y / M / D H / M : Year / Month / Day Hour / Minute

____: Event Channel Display. >1 CH, 2 CH, 3 CH, 4 CH.

Motion: Event type. >Includes Motion / Alarm / V-Loss / Record



Press direction button UP/DOWN to choose items.

Press $\lhd \triangleright$ values change button to change page. Press ENTER to start playback.

>Special time search playback:

Go TO DATE: 2002/12/12

-Choose year / month / day

>Press direction button Left / Right to choose items, press values change button $\triangleleft \triangleright$ to change value. GOTO TIME: 12:12

-Choose hour and minute

>Press direction button Left / Right to choose items, press values change button $\triangleleft \triangleright$ to change value. GOTO PLAY

-Press ENTER button to start playback.

Notice: Playback speed change by $\triangleleft \triangleright$. Speed is x 1, x 2, x 4, x 8, x 16.

FUNCTION SETUP



- 1) Press $\overline{}_{MENU}$ button to enter menu. You can do system function setup in MENU.
- 2) Enter Password Menu



Default password (Account-Admin) : 44444 Default password (Account-User) : 11111

- 3) Press numeric $(1 \sim 4)$ button or remote controller $(0 \sim 9)$ to choose password.
- 4) Remote controller function buttons are same as DVR panel function buttons.

Basic Operation

Press MENU button to enter MAIN SETUP PAGE.

MAIN SETUP PAGE 1. HDD INFORMATION 2. DATE-TIME SETUP 3. DISPLAY SETUP 4. CAMERA SETUP 5. BUZZER SETUP 6. SYSTEM SETUP 7. ADVANCED SETUP MENU, ESC: EXIT, ENTER: RUN

1) Use direction button up/down button to select setup item.

2) Press button to enter into sub-menu function setup.

3) Press sub-menu item with direction button up/down



or left/right I button.

And change the value with $\triangleleft \triangleright$ values change button or turn inner-shuttle.

4) Press ESC to go back to main / sub menu or exit menu.

Notice:

- 1. ADMIN level can setup all DVR menu functions.
- 2. USER level cannot setup ADVANCED page of DVR main menu function.

1. HDD INFORMATION

MAIN SETUP PAGE **1. HDD INFORMATION** 2. DATE-TIME SETUP 3. DISPLAY SETUP 4. CAMERA SETUP 5. BUZZER SETUP 6. SYSTEM SETUP 7. ADVANCED SETUP MENU, ESC: EXIT, ENTER: RUN

POSITION SIZE USED BRAND MASTER LAST TIME SLAVE LAST TIME

Hard Disk Information Display.

Information display: POSITION SIZE USED BRAND

>POSITON: Master / Slave

>SIZE: Hard Disk capacity. xxGB. Maximum display is 999GB

>USED: 00 ~ 100 %. Hard disk overwrites always on 100 %.

>BRAND: DVR auto detect hard disk brand.

>LAST TIME: The last record time display.

2. DATE-TIME SETUP

Г

MAIN SETUP PAGE
1. HDD INFORMATION 2. DATE-TIME SETUP 3. DISPLAY SETUP 4. CAMERA SETUP
5. BUZZER SETUP 6. SYSTEM SETUP 7. ADVANCED SETUP
MENU, ESC: EXIT, ENTER: RUN

1. DATE: > YYYY/MM/DD

2. TIME: > Use direction button up/down to choose position & values change button to change date and time values.

3. DISPLAY AT xx LINE(S)

-Date and Time position on screen xx line(s). 00 ~ 23.

4. DAY LIGHT SAVING:

-Day light saving function on or off.

The Day light Savings function that enable two special updates when it is set to "ON".

On the first Sunday in April, the time increments from 1:59:59 AM to 3:00:00 AM.

On the last Sunday in October when the time first reaches 1:59:59 AM, it changes to 1:00:00 AM.

Press direction button up/down/left/right to choose items or move date-time position.

3. DISPLAY SETUP

MAIN SETUP PAGE	DISPLAY
1. HDD INFORMATION 2. DATE-TIME SETUP 3. DISPLAY SETUP 4. CAMERA SETUP 5. BUZZER SETUP 6. SYSTEM SETUP 7. ADVANCED SETUP MENU, ESC: EXIT, ENTER: RUN	1. DATE-T 2. CAMER 3. PB DAT 4. PB CAM 5. DVR ST 6. BORDE MENU, ES

DISPLAY SETUP PAGE
1. DATE-TIME ON 2. CAMERA TITLE ON 3. PB DATE-TIME ON 4. PB CAMERA TITLE ON 5. DVR STATUS ON 6. BORDER SET WHITE
MENU ESC:EXIT.

- 1. DATE-TIME: Date and Time caption display mode on or off setup.
 - >ON / OFF
- 2. CAMERA TITLE: Camera Title caption display mode on or off setup. >ON / OFF
- 3. PB DATE-TIME: Play back date and time caption display mode on or off setup. >ON / OFF
- 4. PB CAMERA TITLE: Play back camera title caption display mode on or off setup. >ON / OFF
- 5. DVR STATUS: DVR system, record, playback, audio caption display mode on or off setup. >ON / OFF
- 6. BORDER SET: Border colour WHITE / DARK / BLACK / GREY.



Press direction button up/down to choose the desired item.

Press $\triangleleft \triangleright$ values change button to change values.

4. CAMERA SETUP

MAIN SETUP PAGE 1. HDD INFORMATION 2. DATE-TIME SETUP 3. DISPLAY SETUP 4. CAMERA SETUP 5. BUZZER SETUP 6. SYSTEM SETUP 7. ADVANCED SETUP

MENU, ESC: EXIT, ENTER: RUN

CAMERA SETUP PAGE

1. COLOUR SETUP 2. TITLE SETUP 3. SCREEN POSITION SETUP 4. V-LOSS DISPLAY SETUP 5. VIDEO MASK SETUP

MENU, ESC: EXIT, ENTER: RUN

(1.) COLOUR SETUP

CAMERA SETUP

COLOUR SETUP
 TITLE SETUP
 SCREEN POSITION SETUP
 V-LOSS DISPLAY SETUP
 VIDEO MASK SETUP

CAMERA-COLOUR SETUP PAGE ** CH CAMERA 01

:MODIFY

1. BRIGHTNESS 00 2. CONTRAST 00 3. SATURATION 00 4. HUE 00 5. GAIN 00 >>DEFAULT RESET<<

MENU,ESC:EXIT,

CAMERA-COLOUR SETUP : Adjust Camera Image

CH NUMBER	: Select camera	
BRIGHTNESS	: Adjust screen brightness	(-31~ +32)
CONTRAST	: Adjust colour contrast	(-31~ +32)
SATURATION	: Adjust colour saturation	(-31~ +32)
HUE	: Adjust colour hue	(-31~ +32)
GAIN	: Adjust image signal level	(-31~ +32)

>>DEFAULT RESET<< : Press ENTER button to reset DVR values.



Press direction button up/down to choose items.

Press $\triangleleft \triangleright$ values change button to change values.

The correct adjustment in COLOUR setup will improve picture quality displayed. We recommend that each element of the colour adjustment is setup for each camera and monitor connected to the DVR.

(2.) TITLE SETUP: Input TITLE of each camera. 18 characters can be input.

CAMERA SETUP

1. COLOUR SETUP 2. TITLE SETUP 3. SCREEN POSITION SETUP 4. V-LOSS DISPLAY SETUP 5. VIDEO MASK SETUP

CAMERA-TIT	LE SET	UP PAGE
CH1 (CAM01 CH2 (CAM02 CH3 (CAM03 CH4 (CAM04)))	
MENU, ESC: EXIT:	$\triangleleft \triangleright$: MODIFY



Press direction button up/down/left/right to choose items and position.

Γ

Press \triangleleft \triangleright values change button to change values.

Characters choose:

Numeric: 0 / 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9

Capital letter: A / B / C / D / E / F / G / H / I / J / K / L / M / N / O / P / Q / R / S / T / U / V / W / X / Y / Z

(3.) SCREEN POSITION SETUP

CAMERA SETUP 1. COLOUR SETUP 2. TITLE SETUP **3. SCREEN POSITION SETUP** 4. V-LOSS DISPLAY SETUP 5. VIDEO MASK SETUP





Press direction buttons up/down/left/right to move screen position.

- 2. Press ENTER button for default.
- 3. Press ESC button to quit.

(4.) V-LOSS DISPLAY SETUP

CAMERA SETUP 1. COLOUR SETUP 2. TITLE SETUP 3. SCREEN POSITION SETUP 4. V-LOSS DISPLAY SETUP 5. VIDEO MASK SETUP VLOSS SETUP PAGE

**VLOSS FUNCTION:

CH1 VLOSS DISPLAY CH2 VLOSS DISPLAY CH3 VLOSS DISPLAY CH4 VLOSS DISPLAY

** VLOSS FUNCTION: ON / OFF

CH1 VLOSS DISPLAY: ON / OFF

CH2 VLOSS DISPLAY: ON / OFF

CH3 VLOSS DISPLAY: ON / OFF

CH4 VLOSS DISPLAY: ON / OFF



Press direction buttons up/down/left/right to choose items.

(5.) VIDEO MASK SETUP

CAMERA SETUP

- 1. COLOUR SETUP
- 2. TITLE SETUP 3. SCREEN POSITION SETUP
- 4. V-LOSS DISPLAY SETUP
- 5. VIDEO MASK SETUP

VIDEO MASK SETUP PAGE

CH1 VIDEO MASK CH2 VIDEO MASK CH3 VIDEO MASK CH4 VIDEO MASK

MENU, ESC: EXIT: 🖾 🗁 : MODIFY

CH1 VIDEO MASK: ON / OFF CH2 VIDEO MASK: ON / OFF CH3 VIDEO MASK: ON / OFF CH4 VIDEO MASK: ON / OFF

MASK means this channel would not display on the live screen, but it still recording.



Press direction buttons up/down/left/right to choose items.

5. BUZZER SETUP

MAIN SETUP PAGE

1. HDD INFORMATION
 2. DATE-TIME SETUP
 3. DISPLAY SETUP
 4. CAMERA SETUP
 5. BUZZER SETUP
 6. SYSTEM SETUP
 7. ADVANCED SETUP

MENU, ESC: EXIT, ENTER: RUN

BUZZER SETUP PAGE

**SYSTEM BUZZER ON BUTTON BUZZER ON ALARM BUZZER ON MOTION BUZZER ON VLOSS BUZZER ON

MENU, ESC: EXIT: <a>> : MODIFY

**SYSTEM BUZZER: Buzzer function

>ON/OFF

- 1. BUTTON BUZZER?
 - > ON / OFF
- 2. ALARM BUZZER?
 - > ON / OFF
- 3. MOTION BUZZER?

> ON / OFF

4. VLOSS BUZZER?

> ON / OFF



Press direction buttons up/down to BUZZER SETUP items.

6. SYSTEM SETUP

MAIN SETUP PAGE

1. HDD INFORMATION 2. DATE-TIME SETUP 3. DISPLAY SETUP 4. CAMERA SETUP 5. BUZZER SETUP 6. SYSTEM SETUP 7. ADVANCED SETUP

MENU, ESC: EXIT, ENTER: RUN

SYSTEM SETUP

1. DWELL INTERVAL 2. LANGUAGE 3. VIDEO INPUT 4. WATERMARK CHECK 5. RS-485 ID 6. RS-485 PROTOCOL 7. RS-485 BAUD RATE

MENU, ESC: EXIT: $\triangleleft \triangleright$: MODIFY

SYSTEM SETUP

- 1. DWELL INTERVAL:
 - 0 ~ 999SEC
- 2. LANGUAGE
 - ENGLISH / CHINESE / JAPANESE
- 3. VIDEO INPUT: NTSC / PAL system detection,
 - AUTO / NTSC / PAL
- 4. WATERMARK CHECK:

-ON / OFF

5. RS-485 ID:

- 01 ~ 16

- 6. RS-485 PROTOCOL
 - KEYBOARD / LILIN / PELCO-P / PELCO-D / NICECAM
- 7. RS-485 BAUD RATE
 - 1200 / 2400 / 4800 / 9600

RS-485 ID and protocol is the command for system control keyboard. Currently PTZ equipment is not operational with this equipment.



Press direction buttons up/down to choose items.

8. ADVANCED SETUP

MAIN SETUP PAGE1. HDD INFORMATION2. DATE-TIME SETUP3. DISPLAY SETUP4. CAMERA SETUP5. BUZZER SETUP6. SYSTEM SETUP7. ADVANCED SETUPMENU, ESC: EXIT, ENTER: RUN

ADVANCED SETUP PAGE	ALARM SETUP PAGE
ALARM SETUP MOTION SETUP RECORD SETUP PASSWORD SETUP	1. ALARM FUNCTION ON / OFF 2. ALARM DURATION 3. ALARM RELAY SETUP< 4. ALARM POLARITY SETUP<
HDD FORMAT FACTORY DEFAULT	MENU, ESC: EXIT: <□ > : MODIFY

1. Alarm function: ON / OFF

1.

2. 3. 4. 5.

6.

2.Alarm duration: 0 ~ 999 secs

ALARM RELAY SETUP PAGE

ALARM01 : ON / OFF ALARM02 : ON / OFF ALARM03 : ON / OFF ALARM04 : ON / OFF

Press direction buttons up/down to choose items.

Press $\triangleleft \triangleright$ values change button to change values.

ALARM POLARITY SETUP PAGE ALARM01: NO / NC / OFF ALARM02: NO / NC / OFF ALARM03: NO / NC / OFF ALARM04: NO / NC / OFF

2. MOTION SETUP

ADVANCED SETUP PAGE

1. ALARM SETUP **2. MOTION SETUP** 3. RECORD SETUP 4. PASSWORD SETUP 5. HDD FORMAT 6. FACTORY DEFAULT

MOTION SETUP PAGE

**MOTION FUNCTION ON **MOTION DURATION **CHANNEL NUMBER 1. SENSITIVITY 2. VELOCITY 3. MOTION ACTIVE 4. MOTION RELAY 5. MOTION AREA SETUP

MENU, ESC: EXIT: <

MOTION SETUP

**MOTION FUNCTION (set for all channels)

-ON / OFF

****MOTION DURATION**

-0 ~ 999 secs

**CHANNEL NUMBER

Ch 1 / Ch 2 / Ch 3 / Ch 4

- 1. SENSITIVITY Adjusts motion Detection Sensitivity.
 - -1 ~ 32 (low à high)
- 2. VELOCITY Adjusts motion object slow /fast speed detection
 - -1 ~ 10 (slow speedà fast speed)
- 3. MOTION ACTIVE (For each channel)

-ON / OFF. Motion detect option for each channel.

4. MOTION RELAY

-ON / OFF

5. >MOTION AREA SETUP<



Press direction buttons up/down to choose items.

> MOTION AREA SETUP <

All area detect with factory default. Press quad button to change mode and then increase or reduce.

For example: Pre	ess < value change button to reduce.
Image: Section of the section of t	
Add lattices	Press \triangleright value change button to reduce.
Image: state	Image: Second
Icon:	
Press \triangleright to increase area, press \lhd	to reduce area.
Icon:	
Press Up / Down / Left / Right direction I	key to move, press \vartriangleright to increase lattices; press \lhd to reduce lattices.

Icon: +

Press Up / Down / Left / Right direction key to move and increase area.

Icon: X

Press Up / Down / Left / Right direction key to move and reduce area.

3. RECORD SETUP

ADVANCED SET OF PAGE
1. ALARM SETUP 2. MOTION SETUP 3. RECORD SETUP 4. PASSWORD SETUP 5. HDD FORMAT 6. FACTORY DEFAULT

RECORD SETUP

 $\triangleleft \triangleright$: MODIFY

1. HDD FULL 2. RECORD SPEED 3. RECORD MODE 4. RECORD AUDIO 5. QUALITY 6. SCHEDULE SETUP

MENU, ESC: EXIT:

RECORD SETUP

- HDD FULL: When hard disk is full, OVERWRITE will allow overwrite of earliest data files: STOP REC will halt machine.
 OVERWRITE / STOP REC
- 2) RECORD SPEED: Record FPS setup
 -1/30(1/30), 1/15(1/15), 1/10(1/10), 1/5 (1/5), 1/3 (1/3), 1/2 (1/2), 1(1), 2(2), 3(3.13), 5(5), 10 (8.33), 15 (12.5), 30(25), 60(50), 120(100). (Figs in brackets are NTSC format)
- RECORD MODE: Record mode setup.
 -ALWAYS / SCHEDULE / EVENT / EVENT ON SCHEDULE / EVENT + SCHEDULE
- 4) RECORD AUDIO: Audio record setup -ON / OFF
- 5) QUALITY: Record image quality setup - SUPER / HIGH / FINE / NORMAL / LOW
- 6) SCHEDULE SETUP



Press direction buttons up/down to choose items.

Press $\triangleleft \triangleright$

values change button to change values.

Additional:

2. RECORD SPEED. 1/30, 1/15, 1/10, 1/5, 1/3, 1/2, 1, 2, 3.13, 5, 8.33, 12.5, 25, 50, 100.

Record speed of 100 is for Real Time recording. Playback displays 25 frames per channel on FULL screen and 12.5 frames per channel on a 4 - split screen.

3. RECORD MODE. ALWAYS / SCHEDULE / EVENT / EVENT ON SCHEDULE / EVENT + SCHEDULE.

-Always: 24 hours recording. Manual record or stop.

-Schedule: Date and time schedule recording mode.

-Event: Alarm / Motion / V-Loss event mode recording.

-Event on schedule: Event record only on schedule time.

-Event + Schedule: Event recording when schedule set. Events are recorded regardless of schedule time set.

4. RECORD AUDIO: ON / OFF.

-Set Audio to ON for audio recording.

>SCHEDULE SETUP<



SCHEDULE SETUP





Press direction buttons up/down/left/right to see date and time difference.

Press $\triangleleft \triangleright$ values change left/right button to change 30MIN or 60 MIN

++ / - - : Increase / Reduce. Every day record with factory default. On $\triangleright >$, use up/down button to choose date, press mode button to change + + or - -. After, use direction left / right button to start increase or reduce time area.

Mode function button + + increase - - reduce SCHEDULE SETUP CURSOR STEP





For example: TUE ~ SAT, all day schedule time recording, but SUN 07:00 ~ 22:00 and MON 01:30 ~ 23:30 schedule recording. User can press ENTER to see the schedule time area difference.

5. PASSWORD SETUP

ADVANCED SETUP PAGE 1. ALARM SETUP 2. MOTION SETUP 3. RECORD SETUP 4. EVENT 5. PASSWORD SETUP 6. HDD FORMAT 7. FACTORY DEFAULT	PASSWORD SETUP PAGE 1. LEVEL:() 2. ADMIN:() 3. USER :()
 LEVEL (Log In level ID type setup >NONE / ADMIN / USER -ADMIN: -USER -NONE, user does not need to insert page 	 Press direction buttons up/down/left/right to Choose items position. Press values change button to change values. Areas values change button to change values.
 ADMIN password >44444 (Factory Default) USER password >11111 (Factory Default) 	Notice: Password always 5 character input, cannot accept < 5 characters
Press direction buttons	up/down/left/right to choose items position.

Press numeric (1 ~ 4)button or remote controller (0 ~ 9)to choose password.

Choose ADMIN: Only admin password can login to Advanced Menu.

Choose USER: Both user and admin passwords can login to menu but user password cannot access Advanced Menu.

6. HDD FORMAT



à HDD FORMAT CAUTION!! :



[₹] ress ENTER button to format hard disk.

Press ESC button to cancel hard disk format

7. FACTORY DEFAULT



CF card data read on PC

1. CD folder, save setup.exe to PC hard disk

or double click it.



2. Install Shield Wizard processing.





3. Click Next.





4. Choose folder.

erent folder.
[
<u> Chang</u>

5. After choose folder, click OK.



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6. Click install to start.

Video Viewer - Install	Shield Wizard		
Ready to Install the Pr	ogram		
The wizard is ready to b	egin installation.		
If you want to review or	r change any of your	installation settings	, click Back. Click Canc
exit the wizard.			
Current Settings:			
Setup Type:			
Typical			
Destination Folder:			
C:\Program Files\Vid	deoViewer\		
User Information:			
Name: MAXCHEN			
Company: HISHARP	•		

7. Installing



8. Click Finish



Startà Programà Video Viewerà Video Viewer

🍰 Video Viewer v1.0		
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Click Local Search.

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► Left key of mouse click Local Search.

Choose folder		
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,		
Click folder.		

Choose new removable hard diskà BACKUP.DVR file. à OPEN.

🔁 Viden Viewer v1.0		
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Gamera No S		
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Start to playback



Left key of mouse click play

Icon:



Picture capture save. (.JPG file saves.) Only camera full channel save, no quad picture save.

For example: Channel 1 .jpg save. Mouse click channel 1 once, then click mouse right button. Choose save as → choose the folder you want to save.



Type any file name you want, and then click save.



Or choose save all. Save all cameras full channel picture.



Choose folder and type file name.



Click mouse left button, blue bar display. Click mouse right button to choose 1 ~ 4 cameras to change position.



Icon function:



Setting:

Video Format: NTSC or PAL.

Choose Codec: AVI encode format.

Show Watermark: Water mark function on or off.

Video Format: Chose NTSC or PAL.



Choose Codec: File format.

We strongly recommend user to choose Microsoft Windows Media Video 9.



Show Watermark: Watermark function on or off.

To check file has been modified or not.



05/01/28 16:03:21

AVI file save:





Choose folder and type file name

Click save:



Choose 1 ~ 4, and then click OK.

Click OK, and then AVI red light on:



JPG file save:



Choose folder and type file name Choose camera 1 \sim 4 or save all.



Hard Disk Data Read

 $1._{\Gamma}$ Take HDD out of DVR to a personal computer. Make sure hard disk in P.C is Master or Slave, switch Hard disk jumper to Master or Slave.

2. F Power on computer. You do not need to setup BIOS, just login to windows system.

- 3. Start > Program > Video Viewer
- 4. Click HDD scan



Click the correct DVR hard disk.

Data will not be lost if wrong HDD selected.

Hard Disk list on:

🎓 Video Viewer v1.0	A REAL PROPERTY AND A REAL	
Camera No 1	Camera No 2	Ø 251 2
		and
		viero
		Viener
		<u>^</u>
Camera No 3	Camera No 4	
	D D Physical Disk : Speer	
TIDD GGa		
- 1	IDE 0 - GOANTOM FIREBAL	
	IDE 2 - IC35L080AVVA07-0 :	77 GB
Local Search HDD Scan	Recording DVR AVI	Alam 🌒 Motion 🔍 Loss 🌒 ";
	▼	

After selecting the correct hard disk, user can read data as per the previous instructions.

🎓 Video Viewer v1.0			
Camera No 1	Camera No 2		🛛 🛝 🛋 🔽
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Camera No 3	Camera No 4		
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,		* - - Current Sector :	
Local Search HDD Scan	Recording DVR	AVI 🔍 Local 🔍 🛛	Alarm 🎱 Motion 🥥 Loss 🔍 🔐

Multiply GB Per Hour (figure in brackets) by hours required to estimate HDD size

Record Quality: Low. KB Range: Lowest: 13, Highest: 20. Average: 17.

REC FPS	100	50	25	12.5	8.33
REC Hour	21.7 (3.6)	21.7 (3.6)	43.5 (1.83)	87.1 (.91)	130.7 (.61)
	_	0.40			4/0
RECIPS	5	3.13	2	1	1/2
REC Hour	261.4 (.30)	435.7 (.18)	653.5 (.126)	1307.1 (.062)	2614.3 (.031)
REC FPS	1/3	1/5	1/10	1/15	1/30
	4257 2 (010)	6525 0 (012)	12071 8 (006)	21786 4 (0027)	42572 8 (0018)
	4337.2 (.019)	0000.9 (.010)	13071.0 (.000)	21700.4 (.0037)	43372.0 (.0010)

Multiply GB Per Hour (figure in brackets) by hours required to estimate HDD size

Record Quality: Normal. KB Range: Lowest: 14, Highest: 25. Average: 20.

REC FPS	100	50	25	12.5	8.33
REC Hour	18.5	18.5	37 (2.16)	74 (1.08)	111.1 (.72)
REC FPS	5	3.13	2	1	1/2
REC Hour	222.2 (.36)	370.3 (.216)	555.5 (.144)	1111.1 (.072)	2222.2 (.036)
REC FPS	1/3	1/5	1/10	1/15	1/30
REC Hour	3703.7 (.022)	5555.5 (.014)	11111.1 (.007)	18518.5 (.004)	37037 (.002)

Hour conversion table

Example: Normal 25 FPS = 2.16 GB per hour

7 days requires 168 x 2.16 = 362.88 GB

96 hours = 4 days 168 hours = 7 days 336 hours = 14 days 504 hours = 21 days 744 hours = 31 days

Record Time Table: 80GB HD/GB PER HOUR

Multiply GB Per Hour (figure in brackets) by hours required to estimate HDD size

			•		
REC EDS	100	50	25	12.5	8 33
INLOTES	100	50	23	12.5	0.00
REC Hour	16.8	16.8	33 6 (2 38)	67 3 (1 19)	101 (79)
TEO HOU	10.0	10.0	00:0 (2:00)	0110 (1110)	101 (110)
REC FPS	5	3.13	2	1	1/2
REC Hour	202 (.4)	336.7 (.23)	505 (.16)	1010.1 (.079)	2020.2 (.04)
REC FPS	1/3	1/5	1/10	1/15	1/30
REC Hour	3367 (.023)	5050.5 (.016)	10101 (.008)	16835 (.005)	33670 (.002)

Record Quality: Fine, KB Range: Lowest: 15, Highest: 28, Average: 22,

Multiply GB Per Hour (figure in brackets) by hours required to estimate HDD size

Record Quality: High KB Range: Lowest: 17, Highest: 30. Average: 24.

REC FPS	100	50	25	12.5	8.33
REC Hour	15.4	15.4	30.8 (2.6)	61.7 (1.3)	92.5 (.87)
REC FPS	5	3.13	2	1	1/2
REC Hour	185.1 (.43)	308.6 (.26)	462.9 (.173)	925.9 (.086)	1851.8 (.043)
REC FPS	1/3	1/5	1/10	1/15	1/30
REC Hour	3086.4 (.026)	4629.6 (.017)	9259.2 (.008)	15432 (.005)	30864.1 (.003)

Hour conversion table

96 hours = 4 days

168 hours = 7 days

336 hours = 14 days

504 hours = 21 days

744 hours = 31 days

Example: <u>High</u> 25 FPS = 2.6 GB per hour

7 days requires 168 x 2.6 = 436.8 GB

Record Time Table: 80GB HD/GB PER HOUR

Multiply GB Per Hour (figure in brackets) by hours required to estimate HDD size

REC FPS	100	50	25	12.5	8.33
REC Hour	11.5	11.5	23.1 (3.46)	46.2 (1.73)	69.4 (1.15)
REC FPS	5	3.13	2	1	1/2
REC Hour	138.8 (.577)	231.4 (.346)	347.2 (.23)	694.4 (.115)	1388.8 (.058)
REC FPS	1/3	1/5	1/10	1/15	1/30
REC Hour	2314.8 (.035)	3472.2 (.023)	6944.4 (.011)	11574 (.007)	23148.1 (.003)

Record Quality: Super KB Range: Lowest: 19, Highest: 45. Average: 32.

Hour conversion table 96 hours = 4 days 168 hours = 7 days 336 hours = 14 days 504 hours = 21 days 744 hours = 31 days

Example: <u>Super</u> 25 FPS = 3.46 GB per hour

7 days requires 168 x 3.46 = 581.28 GB