

**High Resolution
Color Quad Processor**

User Manual

(V4.52)

Contents

| | |
|---|----|
| Chapter 1 Introduction..... | 3 |
| 1. Summarization..... | 3 |
| 2. Main Functions and Features..... | 3 |
| Chapter 2 System Connection..... | 4 |
| 1. Real panel view..... | 4 |
| 2. System Connection Illustration..... | 4 |
| Chapter 3 Display Modes..... | 5 |
| 1. Display Modes..... | 5 |
| 2. Explanation..... | 5 |
| Chapter 4 Button Functions and Operation..... | 6 |
| 1. Front Panel View..... | 6 |
| 2. MENU / 【PIP】 | 6 |
| 3. PLAY..... | 7 |
| 4. QUAD 【FREEZE】 | 7 |
| 5. ENTER / 【AUTO】 | 7 |
| 6. '1', '2', '3', '4' ('▲', '▼', '+', '-')..... | 7 |
| Chapter 5 Menu Setup and Operation..... | 8 |
| 1. SYSTEM SET..... | 9 |
| 2. CAMERA SET..... | 11 |
| 3. PICTURE QUALITY..... | 12 |
| 4. MOTION SET..... | 12 |
| 5. EVENT LOG..... | 13 |
| 6. CONFIRM RESET..... | 14 |
| Chapter 6 Function Operations..... | 15 |
| 1. Video Loss Alarm..... | 15 |
| 2. Motion Detection Alarm..... | 15 |
| 3. Confirm Alarm..... | 16 |
| 4. Playback..... | 16 |

5. Freeze16

6. Auto Dwell17

7. Digital Zoom..... 17

Chapter 1 Introduction

1. Summarization

Dear users, thank you for choosing our 4 Channel Color Quad. In this manual we will introduce you the features. installation and operation instructions. Hope that you will find it's really easy and comfortable to use the product.

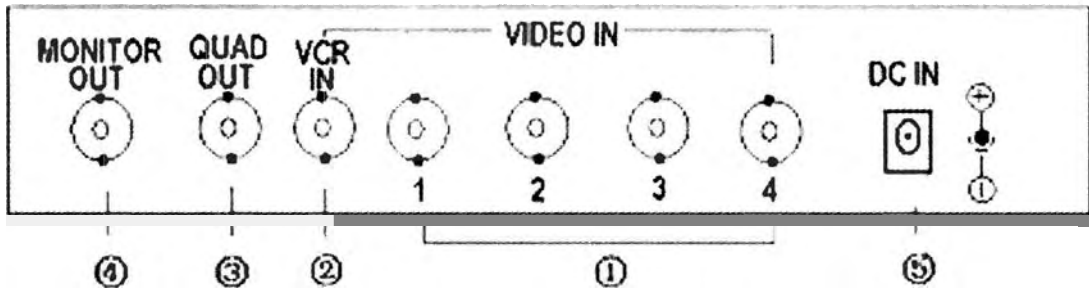
Note: All the information included in this manual is subject to change with out prenotice.

2. Main Functions and Features

- (1) Time and date display enable optional and display position adjustable
- (2) Video loss alarm
- (3) Support 2 channel, PIP display, etc. display modes
- (4) Freeze small picture lite display mode
- (5) Freeze mail picture in live display mode
- (6) Camera title settable
- (7) Auto Dwell
- (8) Set picture quality for each channel respectively
- (9) Playback image 4 times digital zoom
- (10) Live display image 4 time digital zoom
- (11) Motion detect and time period settable

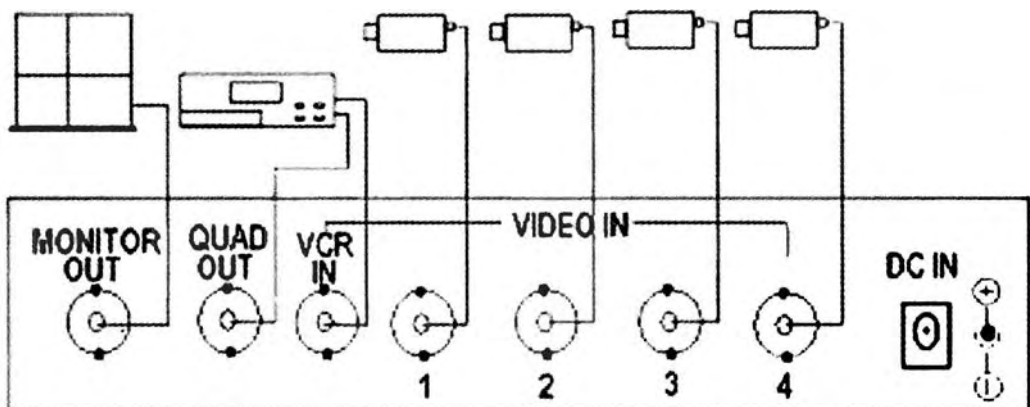
Chapter 2 System Connection

1. Real panel view



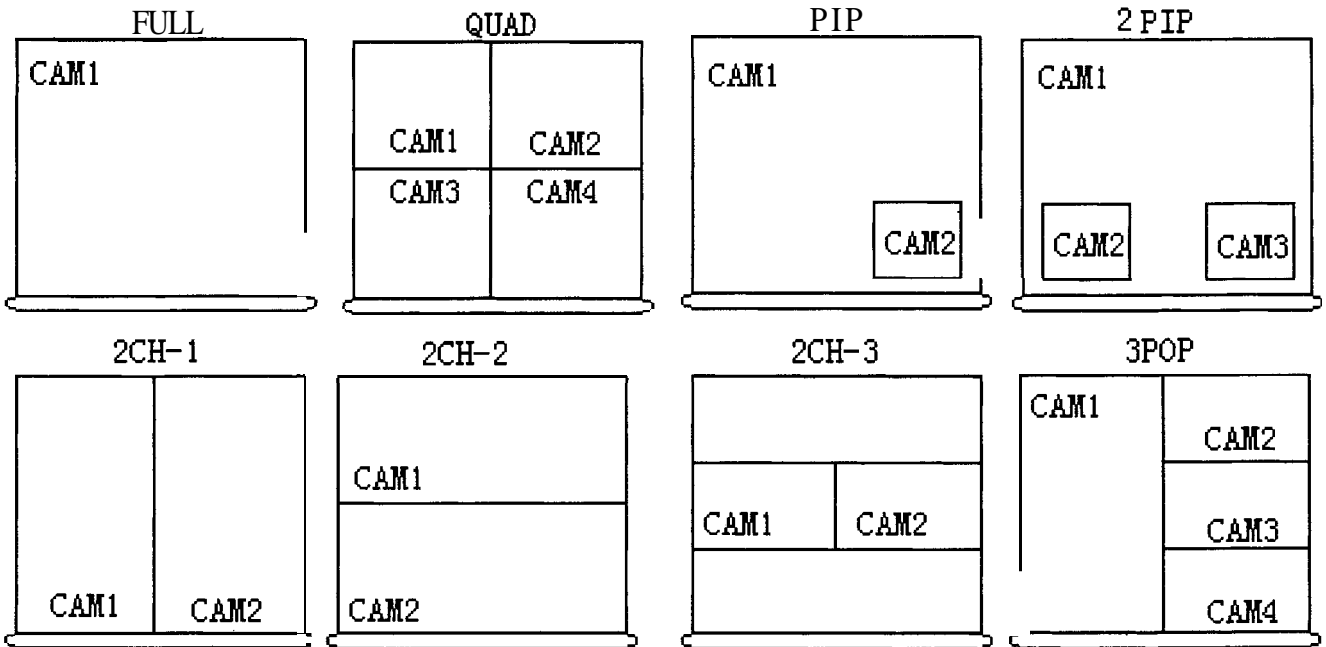
- 1) Video input: 4 video input connectors, support 4 cameras or other standard video signal input
- 2) VCR input connector: connect to VCR's output connector for playback
- 3) 4 channels video output connector: connect to VCR's input connector for recording
- 4) Output monitor: connect to a monitor to take surveillance and display corresponding information
- 5) DC input: please use DC 12V/1.2A adaptor

2. System Connection Illustration



Chapter 3 Display Modes

1. Display Modes



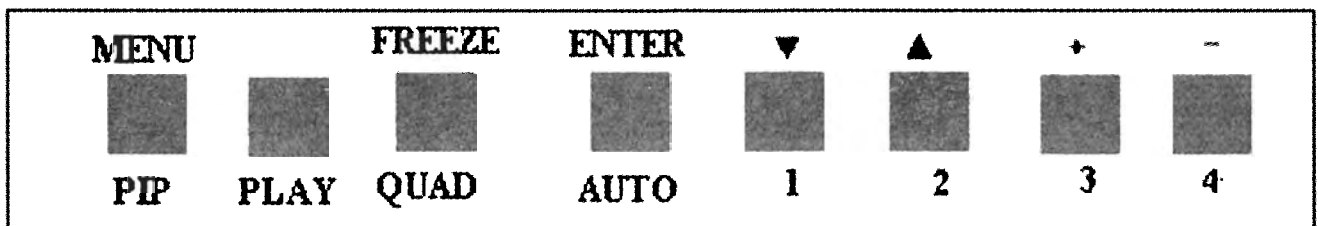
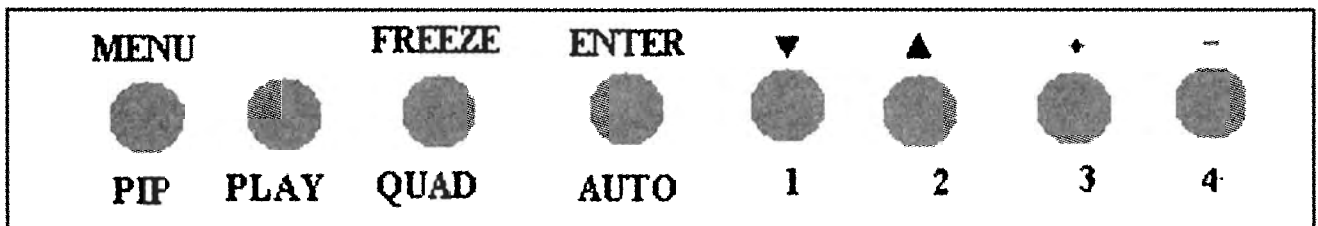
2. Explanation

- 1) FULL: full screen display mode for live display images or playback images
- 2) QUAD: 4 channels display mode for live display or playback images
- 3) PIP: picture in picture mode. The main picture and small pictures are changeable
- 4) 2PIP: picture in picture mode, with 2 small pictures. The main picture and small pictures are changeable
- 5) 2CH-1: 2 channels vertical display mode. The two channels can be set as any two channels. Press '3' and '4' to change the sizes of the channels
- 6) 2CH-2: 2 channels parallel display mode. The two channels can be set as any two channels. Press '1' and '2' to change the sizes of the channels
- 7) 2CH-3: 2 channels display in the center. The two channels can be set as any two channels.

8) 3POP: picture in picture mode, with 3 small pictures. The main picture and small pictures are changeable

Chapter 4 Button Functions and Operation

1. Front Panel View



2. MENU / 【PIP】

- 1) The indicator light normal open, used as power supply indicator
- 2) In live display mode, press it for over 2 seconds to enter menu setup mode
- 3) When in menu setup state, press it to return to the upper menu or exit main menu
- 4) In 4 channels live display mode, press it to enter PIP display mode. At this time, press '2' button over 2 seconds to enter 2PIP mode, and again press '1' button over 2 seconds to turn back to PIP mode

5) In PIP state, press it to enter 2CH-1 mode. Press it again, to enter 2CH-2 mode. Again press it to enter 2CH-3 mode. And once again to enter 3POP mode.

3. PLAY

In live display mode, press this key, PLAY indicator light turns on, the main monitor displays 'PLAY' on the top, and the system begins to play back. Press one of '1', '2', '3' and '4' to view the full screen image of corresponding channel, and once again press one of the four buttons to freeze corresponding channel.

4. QUAD [FREEZE]

1) In live display but not 4CH display mode, press this button to enter 4CH display mode

2) Freeze a small picture: in 4CH live display mode, press this button, FREEZE indicator light turns on. At this time, press '1' '2', '3' and '4' to freeze corresponding channel's image, the monitor displays flashing FREEZE characters on the channels, and the corresponding channel buttons indicator light flashes. Press corresponding button again to defreeze, or wait for the system to defreeze automatically after the freeze period.

5. ENTER / [AUTO]

1) When in menu setup state, press this key to enter a submenu

2) When in live display state but not menu setup state, press this key to enter the auto dwell mode (the indicator light turns at this time), and press it again to exit auto dwell mode (the indicator light turns off).

3) In MOTION SET state, press this key to set motion detection area

6. '1', '2', '3', '4' ('▲', '▼', '+', '-')

1) In 4CH display mode, press one of the buttons to enter full screen display mode. In case FREEZE indicator light on, press one of the buttons to freeze specific channel.

5) In PIP state, press it to enter 2CH-1 mode. Press it again, to enter 2CH-2 mode. Again press it to enter 2CH-3 mode. And once again to enter 3POP mode.

3. PLAY

In live display mode, press this key, PLAY indicator light turns on, the main monitor displays 'PLAY' on the top, and the system begins to play back. Press one of '1', '2', '3' and '4' to view the full screen image of corresponding channel, and once again press one of the four buttons to freeze corresponding channel.

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1) In 4CH display mode, press one of the buttons to enter full screen display mode. In case FREEZE indicator light on, press one of the buttons to freeze specific channel.

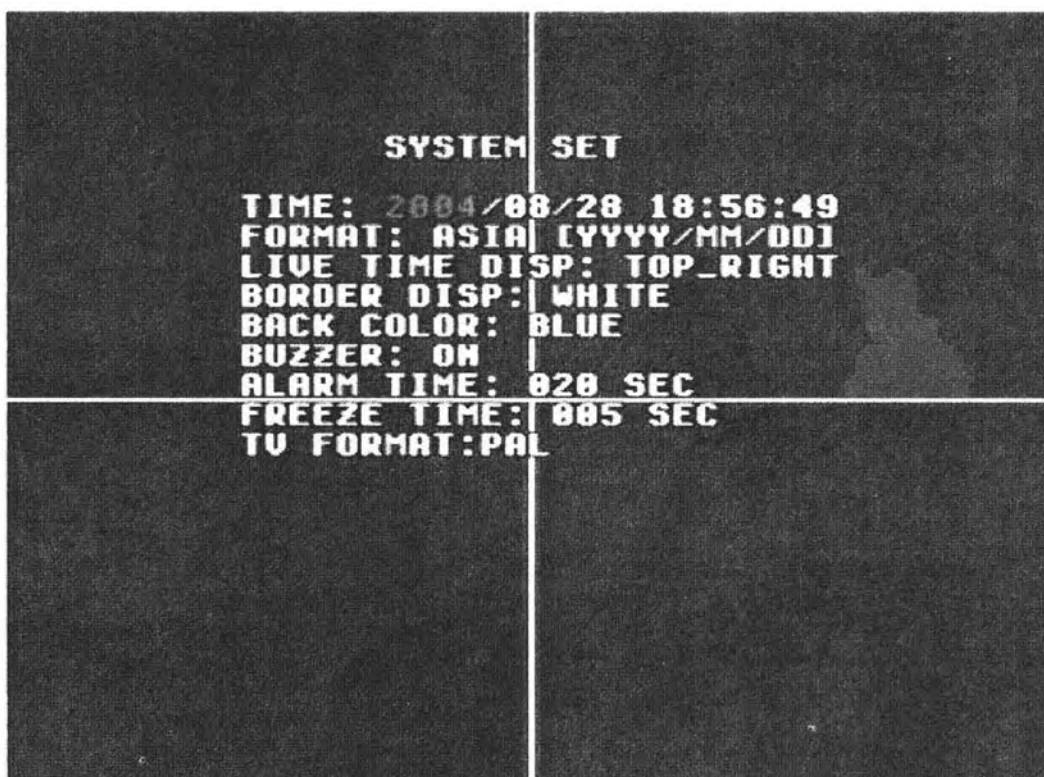


In the bottom right side, it displays the version of the quad, e.g. 0032004102100

If no operation with the quad in 3 minutes, the system will automatically return to the former display mode.

1. **SYSTEM SET**

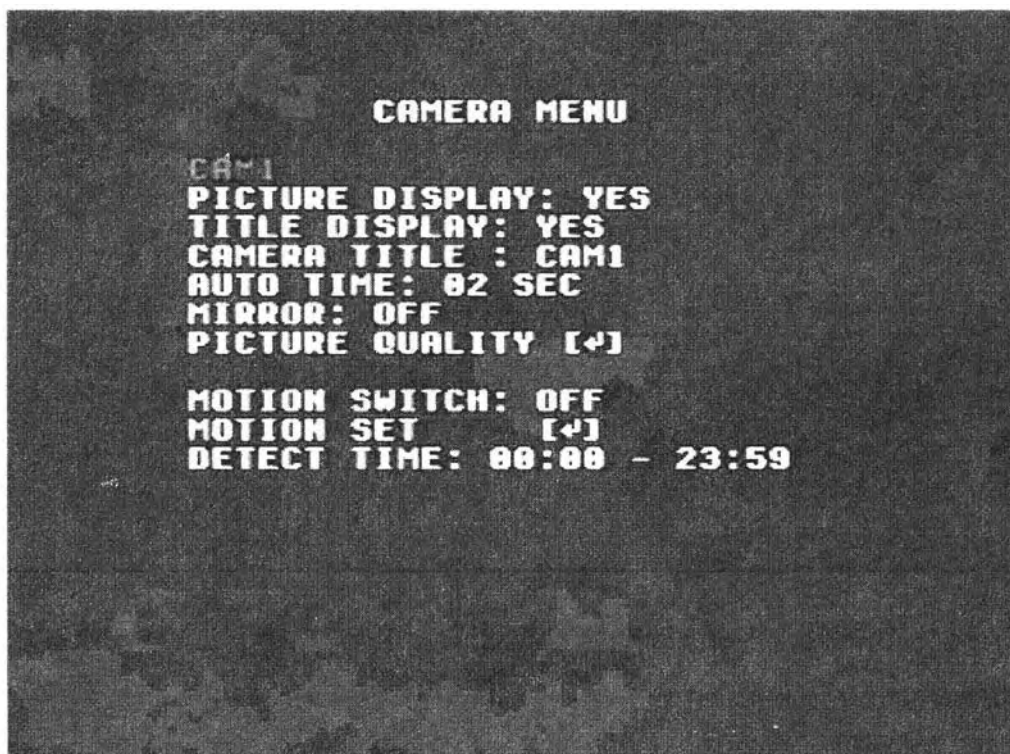
Select SYSTEM SET and press 'ENTER' to enter SYSTEM SET submenu. Press '↑' and '↓' to move upward and downward of the cursor, press '+' and '-' to change and save the parameters.



- ① TIME: system time/date. YYYY/MM/DD (year/month/day); HH/MM/SS (hour/minute/second)
- ② FORMAT: date format [ASIA, asian format; U.S.: USA format; EURO: European format]
- ③ LIVE TIME DISP: timeldate displayed position on the monitor [TOP/TOP-LEFT/TOP -RIGHTNON]
- ④ BORDER DISP: boarder displayed color [GRAY/WHITE/BLACK/OFF]
- ⑤ BACK COLOR: background color [BLUE/BLACK]
- ⑥ BUZZER: buzzer alarm [ON/OFF]
- ⑦ ALARM TIME: alarm hold time [003-255 seconds]
- ⑧ FREEZE TIME: picture freeze time [000-255 seconds, 000 means freeze forever]
- ⑨ TV FORMAT: system format [PAL/NTSC], default value PAL

2. CAMERA SET

Select CAMERA SET and press 'ENTER' to enter CAMERA SET submenu. Press '↑' and '↓' to move upward and downward of the cursor, press '+' and '-' to change and save the parameters.



- ① CAM: camera number
- ② PICTURE DISPLAY: switch on/off the camera [ON/OFF]
- ③ TITLE DISPLAY: select to display the camera name [YES/NO]
- ④ AUTO TIME: auto dwell interval time [0-99 seconds, 0 means this will be bypassed in auto dwell state]
- ⑤ MIRROR: camera video signal mirror [ON/OFF]
- ⑥ PICTURE QUALITY: picture quality
- ⑦ MOTION SWITCH: motion detection option [ON/OFF]
- ⑧ MOTION SET: motion detection setup
- ⑨ DETECT TIME: detection time period setup

3. PICTURE QUALITY

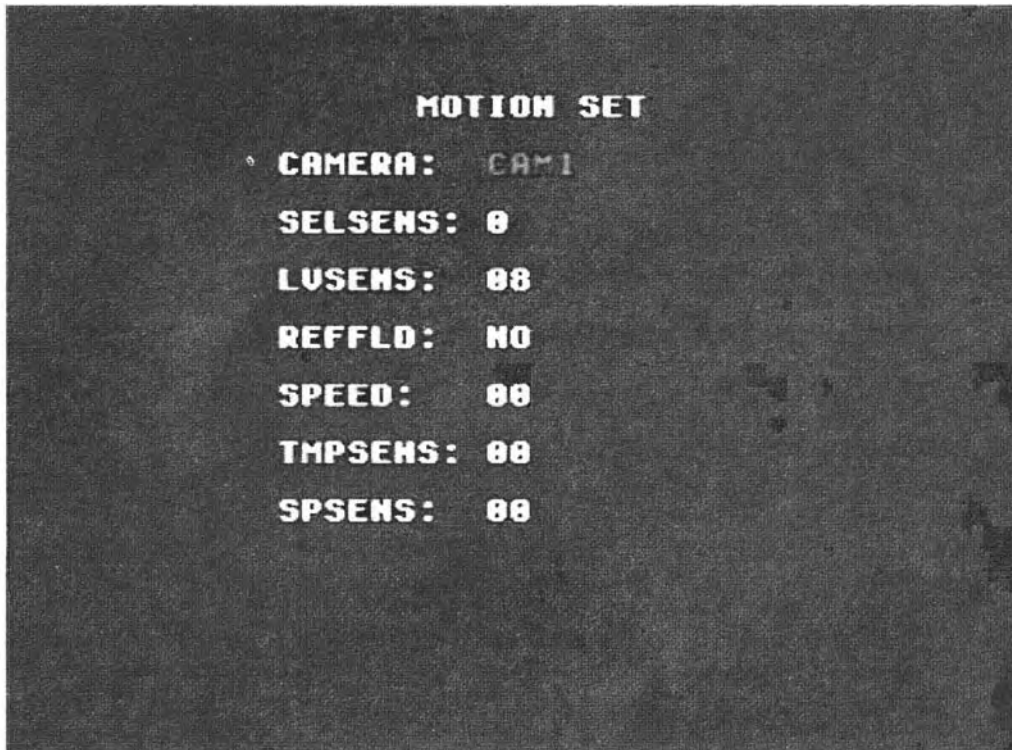


- ① CAM: camera number [1-4]
- ② BRIGHT: brightness [0-255]
- ③ CONTRA: contrast [0-255]
- ④ CHROMA: chroma [0-255]
- ⑤ SHARP: sharpness [0-255]
- ⑥ DEFAULT: restore default setup

The picture changes as soon as any parameter has been changed. Press 'EXIT' to return to the upper menu.

4. MOTION SET

Select MOTION SET and press 'ENTER' to enter MOTION SET submenu. Press '↑' and '↓' to move upward and downward of the cursor, press '+' and '-' to change and save the parameters.



- ① CAMERA: camera number [CAM1-CAM4]
- ② SELSENS: the minimum cell numbers to trigger alarm [0-3]
- ③ LVSENS: cell sensitivity [00-15], the smaller the number, the more sensitive the cells
- ④ REFFLD: real time refresh [NO/YES]
- ⑤ SPEED: object moving speed
- ⑥ TMPSENS: moving time refresh
- ⑦ SPSENS: moving distance refresh

To set motion detection area, press 'ENTER' and black borders appears around the cell on top right side. Then use '↓', '↑', '+' and '-' to move cursor downward, upward, leftward and rightward. Press 'ENTER' to select or delete a green cell. Green color means valid motion detection area. Press 'MENU' to save and exit.

5. EVENT LOG

Select EVENT LIST in the main menu, and press 'ENTER' to enter EVENT LIST submenu.

| EVENT LOG | | | | |
|-----------|-----|------------|----------|-------|
| NO | CAM | DATE | TIME | EVENT |
| 001 | :: | 2004/07/01 | 12:00:00 | P_ON |
| 002 | -- | ----- | ----- | ----- |
| 003 | -- | ----- | ----- | ----- |
| 004 | -- | ----- | ----- | ----- |
| 005 | -- | ----- | ----- | ----- |
| 006 | -- | ----- | ----- | ----- |
| 007 | -- | ----- | ----- | ----- |
| 008 | -- | ----- | ----- | ----- |
| 009 | -- | ----- | ----- | ----- |
| 010 | -- | ----- | ----- | ----- |
| | | PREVIOUS | NEXT | ERASE |

- ① NO: event number, 001-100
- ② CAM: camera name
- ③ DATE: event date
- ④ TIME: event time
- ⑤ EVENT: event causes [LOSS: video loss alarm; MOTION: motion detection alarm; P_ON: opening record]
- ⑥ PREVIOUS: previous page. Every page displays 10 events, and total maximum 10 pages. Press ENTER or '↑' to turn to the previous page.
- ⑦ NEXT: next page. Every page displays 10 events, and total maximum 10 pages. Press ENTER or '↓' to turn to the previous page.
- ⑧ ERASE: erase all the records, and start from 001.

6. CONFIRM RESET



To restore the factory default settings, select YES, and press ENTER to confirm. Select NO and press ENTER to exit.

Chapter 6 Function Operations

1. Video Loss Alarm

When the video signal is lost, the buzzer will ring (optional), the monitor displays 'LOSS' and the indicator light flashes. Press any key or after the video signal is restored, the buzzer will stop.

2. Motion Detection Alarm

Once users have enabled motion detection, if there is motion in the images, the buzzer

will ring (optional), corresponding channel will display 'MOTION' and indicator light flashes. Press any key or after the alarm time, the buzzer will stop.

3. Confirm Alarm

There are two methods to confirm an alarm, manual and auto. When in menu setup mode, playback states, users should have to wait for the system to confirm the alarm (the warning message characters and indicator lights will always there except users make manual confirmation). In any case, if no manual confirm, when the alarm period's passed, the system will make auto confirmation.

(1) Confirm buzzer alarm:

When buzzer rings, press any key, and the buzzer stops. If there happens more alarms continuously in the buzzer alarm period, the buzzer won't ring for a longer time.

(2) Confirm alarm message characters:

When alarm occurs, press the corresponding channel button (1,2,3 and 4) to erase the alarm message. If there are continuous alarms, press corresponding channel button to erase alarm message and stop the indicator light, but after a few time, message will appear again.

4. Playback

In real display state, and NOT in MENU setup, AUTO modes, press 'PLAY' key, the PLAY indicator light turns on, monitor displays PLAY characters, and recorder machine begins to playback. If no playback signal, the monitor displays 'NO PLAY VIDEO'. In playback state, press 'PLAY' button to return to live display state, and PALY indicator light turns off.

5. Freeze

When in 4CH live display mode, press 'QUAD' and FREEZE indicator light turns on. The system now is in freeze state. Press '1', '2', '3' and '4' to freeze corresponding channel, and character string 'FREEZE' appears in the channel. Then press the number button again to defreeze the channel. In PIP, 3POP and full screen mode, press the corresponding main image's number button to freeze the main channel, and press again to defreeze.

6. Auto Dwell

In live display state, press 'AUTO', AUTO indicator light on, and the system enter auto dwell mode with corresponding channel indicator light on. The auto dwell time interval is adjustable in submcnu AUTO TIME in menu CAMERA SET. Press AUTO again to exit auto dwell mode.

7. Digital Zoom

In full screen live display mode or 4CH display mode, press 'AUTO' key for over 2 seconds, the indicator light flashes, and the monitor displays 1/4 of the zoomed image. Press '↓', '↑', '+' and '-' to see other part of the zoomed image. Press AUTO again, ZOOM indicator light off and exit zoom state.