ECOPROTECT

SM-10002

4 Channel Color Quad

User's Manual

Front Panel

Key Function and mode define:
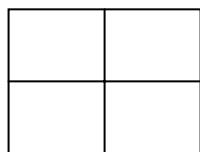
Button / Mode	AUTO / QUAD	↑ ↓ ← → 1 2 3 4	VCR / PIP / ENTER	MENU / ZOOM	SHIFT
Normal Mode (Live display)	4-Split Mode button	Camera 1,2,3,4 Full screen display	PIP screen display	Picture 2 x 2 zoom in	To SHIFT mode
Shift Mode (Press Shift Key)	Channel sequence	Camera 1,2,3,4 Full screen display	To VCR Mode	To Menu Setup	To normal mode
Menu Mode (Menu function page)	Increase value	UP/DOWN / LEFT / RIGHT direction button	ENTER key	Exit Menu	Reduce value
VCR Mode	4-Split Mode button	Camera 1,2,3,4 Full screen display	To Shift mode	To Menu Setup	No function
PIP Mode	To normal mode quad	UP / DOWN, main-screen move, LEFT / RIGHT, son-screen move	To normal mode	2 x 2 zoom in	Shift + PIP mode
SHIFT + PIP mode	PIP auto sequence	PIP-screen moving	To VCR mode	To MENU mode	To PIP mode

Shift Mode, press shift key, an up direction arrow appears.

PIP, after PIP-picture moves to press shift again to memorize position. If not, position would not be memorized.
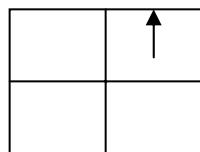
Every time, a user changes function values which needs to press MENU to exit and save values.

Normal Mode   Shift Mode   Menu Mode

PIP screen   Auto sequence   2 x 2 zoom

ECOPROTECT

SM-10002
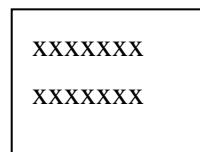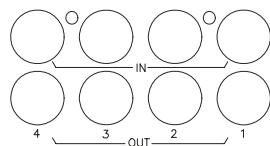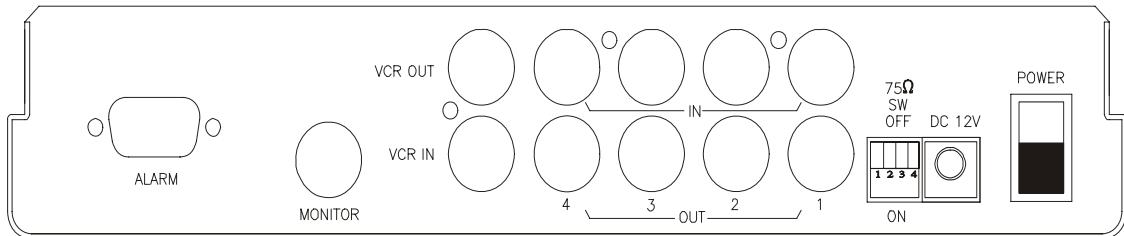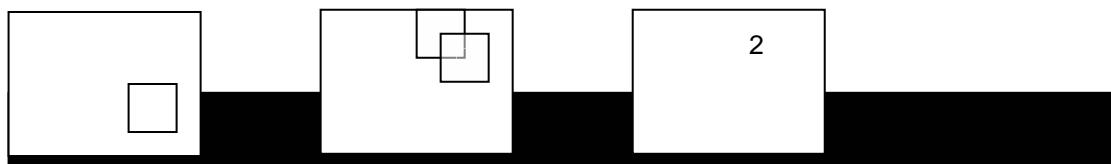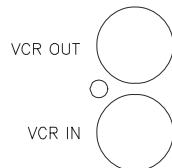
1,2,3,4 CAMERA IN: BNC connectors for four-camera signal input

1,2,3,4 CAMERA OUT: BNC connectors for four-camera signal output (Looping)
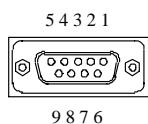
VCR In: BNC connector for video signal input from VCR (VCR OUT).

VCR Out: BNC connector for video signal output to VCR (VCR IN) .
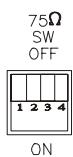
Monitor output
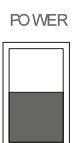
ALARM connector 9 pins D-Sub connector.

1.	ALARM #1	6. NC
2.	ALARM #2	7. COM
3.	ALARM #3	8. NO
4.	ALARM #4	9. GND
5.	5V	
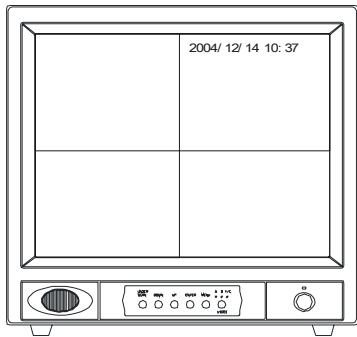
75-ohm high low on / off DIP

Power switcher

Power input: DC 12 V / 1.5 A

ECOPROTECT

FUNCTION SETUP (SHIFT + MENU / ZOOM)

2004/ 12/ 14 10: 37	

```
FUNCTION SETUP
1. DISPLAY        SETUP
2. CAMERA         SETUP
3. BUZZER         SETUP
4. DATE-TIME      SETUP
5. ALARM          SETUP
6. MOTION         SETUP
7. EVENT          LIST
8. SYSTEM         SETUP
** VERSION XXX **
```

|		
1. DISPLAY	SETUP	Display items
2. CAMERA	SETUP	Camera related setup
3. BUZZER	SETUP	Buzzer on or off setup
4. DATE-TIME	SETUP	Current time and date setup
5. ALARM	SETUP	Alarm function setup
6. MOTION	SETUP	Motion function setup
7. EVENT	LIST	Event list page
8. SYSTEM	SETUP	System setup page

↑↓ Move function item cursor and press ENTER to sub-menu.

ECOPROTECT

1. DISPLAY SETUP:

```
FUNCTION SETUP

1. DISPLAY        SETUP
2. CAMERA         SETUP
3. BUZZER         SETUP
4. DATE-TIME      SETUP
5. ALARM          SETUP
6. MOTION         SETUP
7. EVENT          LIST
8. SYSTEM         SETUP
```

```
DISPLAY SETUP

1. DATE-TIME              ON
2. CAMERA TITLE           ON
3. VCR DATE-TIME          ON
4. VCR CAMERA TITLE       ON
5. BORDER SET             WHITE
```

DISPLAY SETUP

1. DATE-TIME

  Current date and time display on the screen? ON / OFF

2. CAMERA TITLE

  Camera title display on the screen?   ON / OFF

3. VCR DATE-TIME

  DATE and Time record to VCR?   ON / OFF

4. VCR CAMERA TITLE

  CAMERA TITLE record to VCR?   ON / OFF

5. BORDER SET

  Quad split border color?   WHITE / BLACK / DARK / GRAY

↑↓ Move function item cursor and press ENTER to sub-menu.

Shift and AUTO / QUAD to change values.

2. CAMERA SETUP:

```
FUNCTION SETUP

1. DISPLAY          SETUP

2. CAMERA          SETUP

3. BUZZER           SETUP

4. DATE-TIME        SETUP

5. ALARM            SETUP

6. MOTION           SETUP

7. EVENT            LIST

8. SYSTEM           SETUP
```

```
CAMERA SETUP PAGE

** CHANNEL NUMBER

1. BRIGHTNESS      00

2. CONTRAST        00

3. SATURATION      00

4. HUE             00

5. GAIN            00

6. TITLE

7. DEFAULT RESET
```

CAMERA SETUP PAGE

CHANNEL NUMBER   CH 01 / 02 / 03 / 04

1. BRIGHTNESS   -31 ~ +32

2. CONTRAST   -31 ~ +32

3. SATURATION   -31 ~ +32

4. HUE   -31 ~ +32

5. GAIN   -31 ~ +32

6. TITLE   CAM0100000

7. DEFAULT RESET   Press ENTER

```
** CAUTION**

ALL CAMERA SETUP VALUE WILL BE

CLEAR AND RESTORE FACTORY DEFAULT

PRESS [ENTER] TO RESTORE

PRESS [MENU]    TO CANCLE
```

↑↓ Move function item cursor and press ENTER to sub-menu.

Shift and AUTO / QUAD to change values.

3. BUZZER SETUP:

```
FUNCTION SETUP
1. DISPLAY        SETUP
2. CAMERA         SETUP
3. BUZZER         SETUP
4. DATE-TIME      SETUP
5. ALARM          SETUP
6. MOTION         SETUP
7. EVENT          LIST
8. SYSTEM         SETUP
```
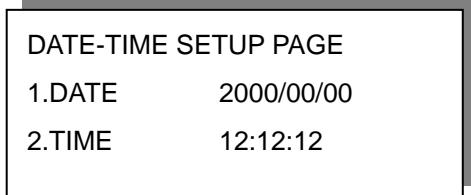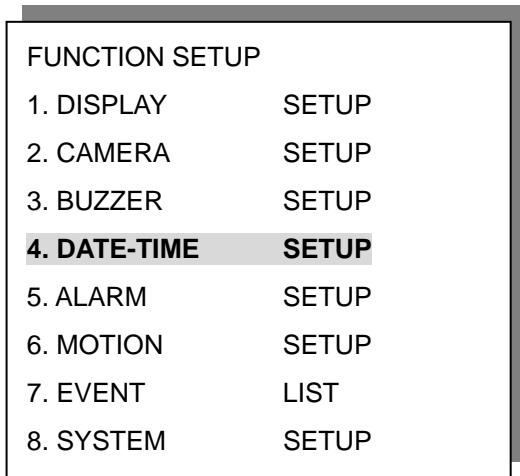
```
BUZZER SETUP PAGE
**SYSTEM BUZZER      ON
BUTTON BUZZER        ON
ALARM BUZZER         ON
MOTION BUZZER        ON
VLOSS BUZZER         ON
```

**SYSTEM BUZZER	ON / OFF (Buzzer function)
BUTTON BUZZER	Key pressed buzzer. One pressed, and a sound.
ON / OFF	
ALARM BUZZER	Alarm trigger buzzer. According duration time.
ON / OFF	
MOTION BUZZER	Motion moving buzzer. Every movement and a sound.
ON / OFF	
V-LOSS BUZZER	Video loss buzzer. Sound keeps until video in or other buzzer happens.
ON / OFF	

↑↓ Move function item cursor and press ENTER to sub-menu.

Shift and AUTO / QUAD to change values.

4. DATE-TIME:

```
FUNCTION SETUP
1. DISPLAY        SETUP
2. CAMERA         SETUP
3. BUZZER         SETUP
4. DATE-TIME      SETUP
5. ALARM          SETUP
6. MOTION         SETUP
7. EVENT          LIST
8. SYSTEM         SETUP
```

```
DATE-TIME SETUP PAGE
1.DATE        2000/00/00
2.TIME        12:12:12
```
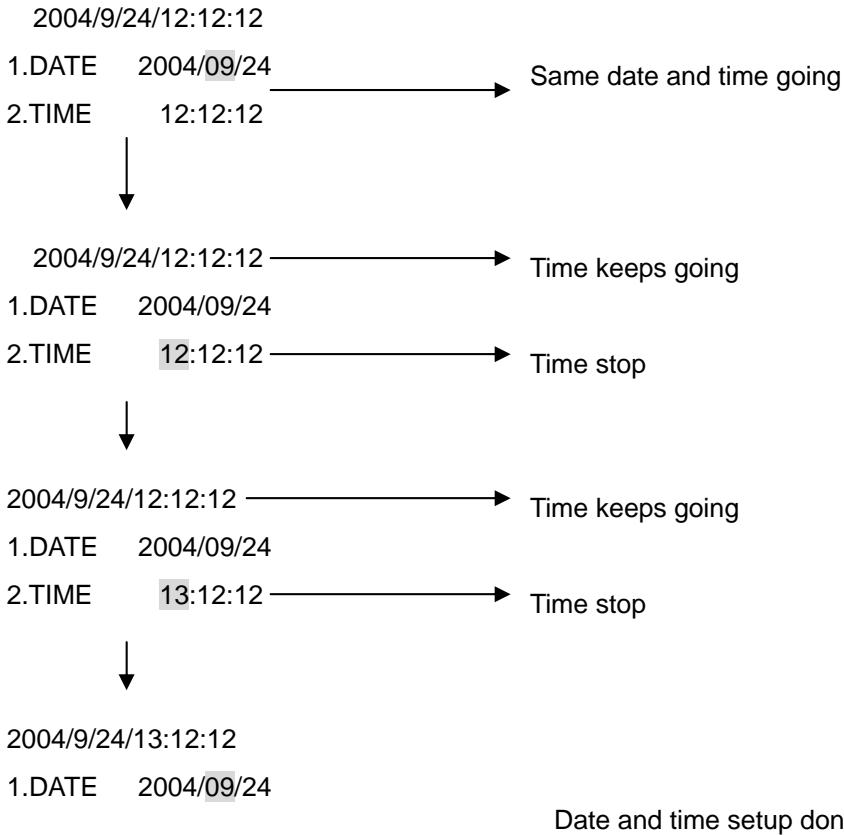
1.   DATE : Current Year / Month / Day

2.   TIME : Current Hour / Minute / Second

↑↓ Move function item cursor and press ENTER to sub-menu.

Shift and AUTO / QUAD to change values.

Date and time change steps:

   2004/9/24/12:12:12

1.DATE   2004/09/24 ──────────────→ Same date and time going

2.TIME   12:12:12

                   ↓

   2004/9/24/12:12:12 ──────────────→ Time keeps going

1.DATE   2004/09/24

2.TIME   12:12:12 ──────────────→ Time stop

              ↓

2004/9/24/12:12:12 ──────────────→ Time keeps going

1.DATE   2004/09/24

2.TIME   13:12:12 ──────────────→ Time stop

              ↓

2004/9/24/13:12:12

1.DATE   2004/09/24

                        Date and time setup done

2.TIME   13:12:12

5. ALARM SETUP:

FUNCTION SETUP

1. DISPLAY	SETUP
2. CAMERA	SETUP
3. BUZZER	SETUP
4. DATE-TIME	SETUP
5. ALARM	**SETUP**
6. MOTION	SETUP
7. EVENT	LIST
8. SYSTEM	SETUP

ALARM SETUP PAGE

1.ALARM SIGNAL1:

2.ALARM SIGNAL2:

3.ALARM SIGNAL3:

4.ALARM SIGNAL4:

5.ALARM DURATION: SEC

ALARM SETUP PAGE (Alarm sensor type and duration time setup)

1. ALARM SIGNAL1: NO / NC / OFF

2. ALARM SIGNAL2: NO / NC / OFF

3. ALARM SIGNAL3: NO / NC / OFF

4. ALARM SIGNAL4: NO / NC / OFF

5. ALARM DURATION: 000 ~ 999 SEC

↑↓ Move function item cursor and press ENTER to sub-menu.

Shift and AUTO / QUAD to change values.

6. MOTION SETUP:

```
FUNCTION SETUP
1. DISPLAY        SETUP
2. CAMERA         SETUP
3. BUZZER         SETUP
4. DATE-TIME      SETUP
5. ALARM          SETUP
6. MOTION         SETUP
7. EVENT          LIST
8. SYSTEM         SETUP
```

```
MOTION SETUP PAGE
**MOTION FUNCTION
**CHANNEL NUMBER
1.SENSITIVITY
2.VELOCITY
3.MOTION ACTIVE
4.MOTION AREA SETUP
```

MOTION SETUP PAGE

**MOTION FUNCTION ON / OFF

**CHANNEL NUMBER CH 01 / 02 / 03 / 04

1.SENSITIVITY   0 ~ +15

    Object moving sensitivity setup

2.VELOCITY   0 ~ +30

    Object moving speed setup

3.MOTION ACTIVE   ON / OFF

    Channel motion detect active

4.MOTION AREA SETUP

    Motion area, transparent window lattice is detecting, blue window lattice is not detecting.

    ↑ ↓ → ← Move function item cursor and press ENTER to Increase / reduce.

    Shift and AUTO / QUAD to change values.

7. EVENT LIST:

```
FUNCTION SETUP
1. DISPLAY        SETUP
2. CAMERA         SETUP
3. BUZZER         SETUP
4. DATE-TIME      SETUP
5. ALARM          SETUP
6. MOTION         SETUP
7. EVENT          LIST
8. SYSTEM         SETUP
```

```
EVENT LIST PAGE
NO   OCCURED TIME   CH TYPE
```

Event list.

Menu page display event list such as v-loss, alarm, and motion list.

10 events and 10 pages display. Total 100 entries.

↑↓ Move function item cursor and press ENTER to sub-menu.

Shift and AUTO / QUAD, change to next page.

8. SYSTEM SETUP:

```
FUNCTION SETUP
1. DISPLAY        SETUP
2. CAMERA         SETUP
3. BUZZER         SETUP
4. DATE-TIME      SETUP
5. ALARM          SETUP
6. MOTION         SETUP
7. EVENT          LIST
8. SYSTEM         SETUP
```

```
SYSTEM SETUP PAGE
1.DWELL INTERVAL:      SEC
2.CLEAN EVENT TABLE
3.FACTORY DEFAULT
```

SYSTEM SETUP PAGE

1. DWELL INTERVAL: 001 ~ 999 SEC

   Channel auto sequence time setup.

2.CLEAN EVENT TABLE

```
         ** CAUTION    **
ALL EVENT VALUE WILL BE CLEAR,


PRESS [ENTER] TO CLEAR.
PRESS [MENU] TO CANCLE.
```

2. FACTORY DEFAULT: Press ENTER

   Back to factory default.

```
         ** CAUTION    **
ALL SETUP VALUE WILL BE CLEAR,
AND RESTORE FACTORY DEFAULT
PRESS [ENTER] TO RESTORE.
PRESS [MENU]   TO CANCLE.
```

↑↓ Move function item cursor and press ENTER to sub-menu.

Shift and AUTO / QUAD, change to next page.