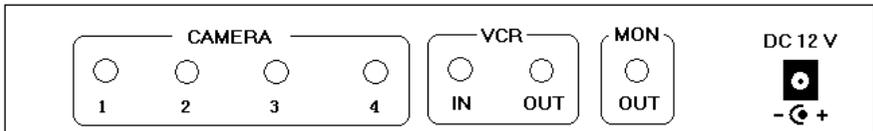


System Features

- Connects up to 4/8 Video Camera
Adjustable Brightness, Contrast, Saturation, Hue and Sharpness
- High Resolution
720X480 60Hz for NTSC
720X576 50Hz for PAL
- Various Display Modes
QUAD Split Mode
Full Screen Mode
PIP Screen Mode
Non-realtime 8 Split Mode
Dual Split Mode
Auto Sequence Mode
- High Performance Freeze Function
Flicker Free Image Capture
- High Performance Zoom Function
Selectable Zoom Area
- Various Overlay Information
Camera Title
Real Time and Date
Alarm/Loss/Motion Message
- Playback in QUAD or Full Screen Image
- Provide Various Event Input and Detection
Video Loss Detection
Motion Detection
60 Event Report
Built-in Buzzer and Relay Output

Rear Panel Installation



Camera Connection

Accept 8 composite video inputs from the camera.

Monitor Connection

Provide 1 composite video output for the main monitor.

VCR OUT Connection

Provide 1 composite video output for recording in the VCR.

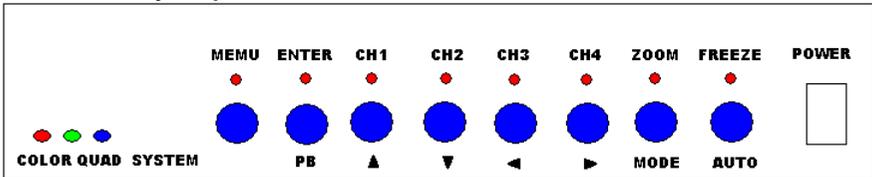
VCR IN Connection

Accept 1 composite video input for playback from the VCR.

Power Jack Connection

DC ~12V, Center is positive.

Front Key Operation



Key Definition

Short key

Press it in less than 1second

long key

press it in more than 1 second

Setup Menu Function

Refer to the Setup Menu Operation section.

Zoom Function

A zoomed area can be moved by pressing 4 arrow keys when zoom function is invoked. Freeze function can also be invoked while zoom function is invoked.

Freeze Function

All displayed channel is frozen when freeze function is invoked. Zoom function can also be invoked while freeze function is invoked.

Playback Function

When playback function is running, 4 channel keys select camera to be displayed as single full screen and the MODE key makes quad display mode.

Quad A or B Display

Key A/B selects page to be displayed. Page A and B is toggled for each A/B key.

Multi Channel Display

The display modes are circulated as the following sequence, Non-realtime 8 Split, 2 Picture-in-Picture, 1 Picture-in-Picture and Dual Split for each MODE key.

UP and DOWN key selects the channel in 2 Picture-in-Picture, 1 Picture-in-Picture and Dual Split mode, and then the selected channel boundary is blinked. The camera in the selected channel can be chosen by LEFT and RIGHT key

Auto Sequence Display

AUTO key invokes auto sequence display mode and this mode can be maintained until any other display mode is selected.

Single Channel Display

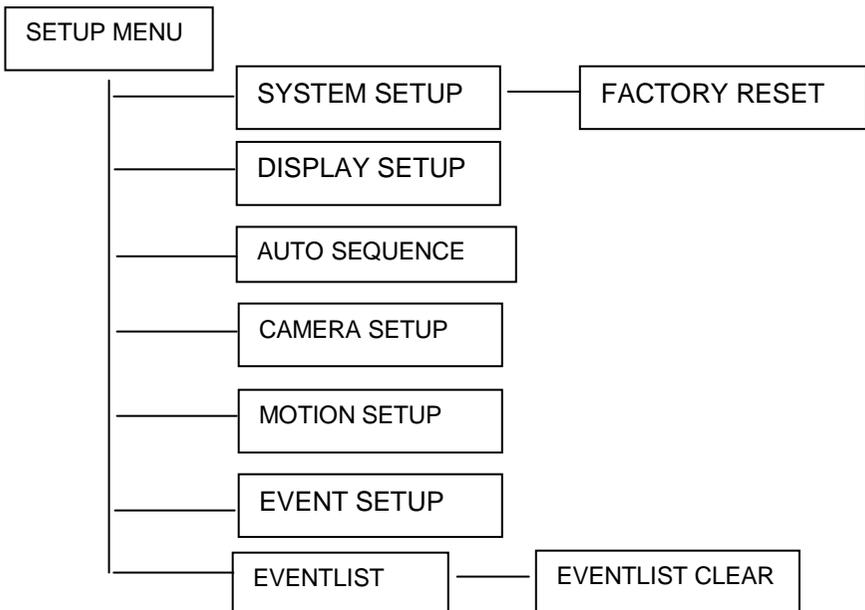
Each channel button selects camera to be display as full screen. When pushing same button, camera is toggled to the other page.

PAL/NTSC System

System can be defined as NTSC or PAL standard with the following method. The first method is to power on with pressing RIGHT or LEFT key and the second one is to define in the setup menu.

Setup Menu Operation

The system provides a built-in GUI setup screen. For each menu, the key function is described in the lower region to help operation. The following figure shows the structure of GUI menu.



Setup Main menu

```
          SETUP MAIN MENU
SYSTEM  DISPLAY AUTO
SETUP   SETUP    SEQUENCE

CAMERA  MOTION  EVENT  EVENT
SETUP   SETUP   SETUP  REPORT
```

Press UP or DOWN, LEFT or RIGHT button to select, press ENTER button to confirm, use MENU button to exit.

System Setup Menu

```
          SYSTEM SETUP
DATE : YYYY-DD
      2004 : 01 : 01
TIME : HH-MM-SS
      12-00-00
SYSTEM FORMAT: PAL
SYSTEM ID NUMBER : 01
KEY LOCK : OFF
FACTORY RESET : NO
```

Press UP or DOWN button to select, use LEFT or RIGHT button to adjust
Press ENTER button to confirm, press MENU to exit.

Factory Reset Menu

```
          FACTORY RESET
          WARNING!
THIS SYSTEM GETS TO LOSE
THE CURRENT SETTING VALUE
AND WILL BE INITIALIZED
WITH FACTORY RESET MODE.

          ARE YOU SURE?
          YES    NO
```

Press LEFT or RIGHT button to select, press ENTER button to confirm,
Press MENU button to exit.

Display Setup Menu

```
DISPLAY SETUP
DISPLAY ON SCREEN
◆TITLE ◆DATE ◆TIME
SCREEN POSITION X: 0 Y: 0
BORDER LINE COLOR :
     BLACK
     GRAY1
     GRAY2
     WHITE
     OFF
```

Press UP or DOWN button to select, use LEFT or RIGHT button to adjust,
press MENU button to exit.

Camera Setup Menu

```
CAMERA SETUP
TITLE : CAMERA1
BRIGHTNESS : 0
CONTRAST : 0
SATURAST : 0
    HUE : 0
SHARPNESS : 0
MIRRORING : OFF
```

Press UP or down button to select, LEFT or RIGHT button to adjust,
press MENU button to exit.

Auto Sequence Setup Menu

AUTO SEQUENCE SWELL TIME	
PAGE A QUAD : 3SEC	PAGE B QUAD : 3SEC
CAMERA1 : 3SEC	CAMERA5 : 3SEC
CAMERA2 : 3SEC	CAMERA6 : 3SEC
CAMERA3 : 3SEC	CAMERA7 : 3SEC
CAMERA4 : 3SEC	CAMERA8 : 3SEC

Press UP or down button to select, LEFT or RIGHT button to adjust, Press MENU button to exit.

Motion Setup Menu

MOTION SETUP
DETECTION TIME
ALWAYS OFF
ON : 11 : 00 : 00
OFF : 12 : 00 : 00
SENSITIVITY : 0
VELOCITY : 0
MASKING AREA
[X, Y]=(0, 0)

Press UP or down button to select, LEFT or RIGHT button to adjust, Press MENU button to exit.

Event Setup Menu

EVENT SETUP								
BUZZER/REPORT	<input type="checkbox"/>	CONTROL						
CHANNEL	1	2	3	4	5	6	7	8
ALARM	<input type="checkbox"/>							
LOSS	<input type="checkbox"/>							
MOTION	<input type="checkbox"/>							
BUZZER HOLD TIME : 05SEC								
REPORT HOLD TIME : 60SEC								

Press UP or DOWN, LEFT or RIGHT button to select, press ENTER button to enable, press MENU button to exit.

t Report

EVENT REPORT				
				1 OF 6 PAGE
NO	YY-MM-DD	HH : MM : SS	CH	EVENT
1	04-07-30	16 : 56 : 03	1	LOSS
2	04-07-30	16 : 56 : 03	2	ALARM
3	04-07-30	16 : 56 : 03	3	MOTION
4	04-07-30	16 : 56 : 03	4	LOSS
5	04-07-30	16 : 56 : 03	5	ALARM
6	04-07-30	16 : 56 : 03	6	MOTION
7	04-07-30	16 : 56 : 03	7	LOSS
8	04-07-30	16 : 56 : 03	8	ALARM
9	04-07-30	16 : 56 : 03	1	MOTION
10	04-07-30	16 : 56 : 03	2	LOSS

LIST CLEAR : ON

Press UP or DOWN button to select, press LEFT or RIGHT button to select page, press MENU button to exit.

Event List Clear Menu

LIST CLEAR
WARNING!
THIS SYSTEM GETS TO LOSE
THE CURRENT EVENTLIST AND
WILL BE INITIALIZED WITH BLINK

ARE YOU SURE ?
YES NO

Press LEFT or RIGHT button to select, press ENTER button to confirm, press MENU button to exit.