Thank you for purchasing our product. Please read this User's Manual before using the product. Change without Notice.



VQCM4 Colour Quad

Installation & Instruction Manual





Table of Contents

Safety Precautions	3
Features / Packing List	4
Connecting Device	5
Front Panel	6
Rear Panel	7
FUNCTION SETUP (SHIFT + MENU / ZOOM)	8
1. DISPLAY SETUP	9
2. CAMERA SETUP	10
3. BUZZER SETUP	11
4. DATE-TIME	12
5. ALARM SETUP	13
6. MOTION SETUP	14
7. EVENT LIST	15
8. SYSTEM SETUP	16
Specification	17

Safety Precautions



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 unites.

Features

- . User Friendly OSD Set-Up Menu
- . 4 Video Inputs & 1 Video Output
- . Split Mode: Full, Quad, PIP & Auto Switching
- . Full duplex mode: recording / playback at the same time (need to collocate with Duplex DVR)
- . Motion Detect Function Support
- . Video Loss Detecting Function
- . Freeze & 2 x 2 Zoom Function In Live Display, VCR Playback
- . NTSC/ PAL Auto Detect Function
- . Video Adjustment (Brightness, Sharpness, Hue) for Each Channel
- . 4 Alarm Inputs & 1 Alarm Output with Built-In Buzzer
- . 100 Event Lists
- . Time/ Date Title Display

Packing List

- 1x VQCM4 Colour Quad
- 1x Installation & Instruction Manual
- 1x Accessory

Connecting Device



Connection

- Users are able to connect up to 4 cameras with this 4 channel colour quad. Connect the BNCs of cameras into the IN BNC connector as diagram showed.
- 2. Connect VCR, Monitors, and Alarm sensors as shown on the above picture
- 3. Turn on Power Switch after all the connecting steps are done.

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



PIP screen



Shift Mode



Auto sequence



Menu Mode



2 x 2 zoom



Rear Panel





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

VCR In: BNC connector for video signal input from VCR (VCR OUT). VCR Out: BNC connector for video signal output to VCR (VCR IN) .

5. 5V

Monitor output

54321
@(<u>`````)</u> @
9876

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



75-ohm high low on / off DIP



Power switcher

FUNCTION SETUP (SHIFT + MENU / ZOOM)



FUNCTION SETU	IP
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

 \clubsuit Move function item cursor and press ENTER to sub-menu.

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 colour?	WHITE / BLACK / DARK / GRAY

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

2. CAMERA SETUP

FUNCTION SETU	JP
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	

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

 \clubsuit Move function item cursor and press ENTER to sub-menu.

3. BUZZER SETUP

FUNCTION SETU	IP
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

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

4. DATE-TIME

FUNCTION SETU	IP
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-TIM	E 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

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 Time keeps going 2004/9/24/12:12:12 1.DATE 2004/09/24 Time stop 2.TIME 12:12:12 Time keeps going 2004/9/24/12:12:12 1.DATE 2004/09/24 Time stop 2.TIME 13:12:12 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 SETU	JP
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 (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.

6. MOTION SETUP

FUNCTION SETU	JP
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 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 SETU	Р
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



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. (100 entries in Total)

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

Shift and AUTO / QUAD, change to next page.

8. SYSTEM SETUP

FUNCTION SETU	Р
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 0.07	**"

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.

Specification

Model	VQCM4
System	NTSC/ PAL
Refresh Rate	30 frames per second
Digital Memory	NTSC: 720 x 480/ PAL: 720 x 512
Video Input	Composite 1.0 Vp-p adjustable, Camera x 4, 75 ohm B/W
	or video signal VCR in x 1
Video Output	1.0 Vp-p full screen or quad, switched output, 75 ohm,
	BNC x 1 VCR out x 1, monitor out x 1
Alarm Input/Output	NC / NO contact output, DC 24V/ 1A Max.
Alarm Reset time	1 ~ 999 sec
Sequence Time	1 ~ 999 sec
Sequential Time	Automatic switching - Dwell time adjustable 0 - 999 sec.
Working Voltage	12V DC, 1.0A
Max Power Drawn	12W (Max.)
Weight (per unit)	N.W./ G.W.: 1.3kg / 1.6kg
Dimensions	238(W)x208.5(D)x51.7(H)mm

Vista Norbain House Eskdale Road Winnersh Triangle WOKINGHAM Berkshire RG41 5TS Tel: +44(0)118 912 5000 Tel: +44(0)118 944 0999 www.vista-cctv.com