

4. ADDITIONAL INFORMATION

4.1 TROUBLE SHOOTING

PROBLEM	SUGGESTED ACTION				
Bad picture quality after power on	Please connect the video cable on channel one before connecting power. The device will detect system automatically for PAL/NTSC (for Color version) or CCIR/EIA (for B/W version).				
No Video	1. Please check if the power supply is connected. 2. Please check if the wiring between monitor and quad is correct.				
Video Loss Ex. CH1 video loss at 04:08	Please check CH1 camera is connected properly. And all BNC connectors are installed securely.				
<table border="1"><tr><td>LOSS 04:08</td><td>CH2</td></tr><tr><td>CH3</td><td>CH4</td></tr></table>	LOSS 04:08	CH2	CH3	CH4	
LOSS 04:08	CH2				
CH3	CH4				
Continuous Alarm	Please check if there is any disconnection between camera and quad.				
Different Brightness, Color and Contrast in quad screen.	Please go to VIDEO menu to set up the video parameters of each camera. (For Color version)				

4.2 SPECIFICATION

Video input port	4 +1 (VCR) cameras
Video output port	1 switch & 1 quad output
Alarm input	4
Alarm output	1
Alarm duration	1 - 99 sec.
Camera Title	10 characters
Time / Date set	Built-in real time clock
Dwell Time	1 - 30 sec.
RS-232 port	Yes
Load impedance	75 Ω
Operating environment	10-80%RH, 0°C-50°C (32°F-122°F)
Power source	DC 12V \pm 10%, 500mA
Power consumption	6W maximum
Dimension	240mm(W)x45mm(H)x150mm(D)/9.45"(W)x 1.77"(H)x59.06"(D)
Weight	1,300 g / 2.87 pounds / 45.86 ounces

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Video Quad Processor

Operating Instructions

- VTQ-B04 BW QUAD PROCESSOR
- VTQ-C04 COLOR QUAD PROCESSOR

CAUTION

This is an intelligent device. You must connect the video cable on channel one before applying power. The device will detect system automatically for PAL/ NTSC (Color version) or CCIR/EIA (B/W version).

September, 2001

Part# VTQ-B04-C04, V1.0

PRECAUTIONS

Safety

- The unit operates on DC12V, 500mA
- To reduce risk of fire or electric shock, do not expose this appliance to rain or moisture.
- Do not attempt to service this unit yourself as opening or removing the cover, it may expose you to risk of electric shock. Refer servicing to qualified service personnel.

Notice

- The information in this operating instruction manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without notice.

WELCOME!

Thank you for purchasing your new QUAD PROCESSOR. This single page real time quad processor with built-in 4 channel auto switcher is your only choice for quality and price. The main features of this product are listed below:

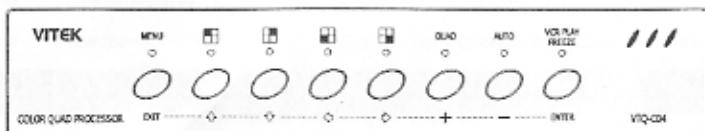
- Real time refresh rate (NTSC/EIA: 30 frame/sec.; PAL/CCIR: 25 frame/sec.)
- High Resolution 720(H) x 480(V) <NTSC/EIA> high resolution, 720(H) x 576(V) <PAL/CCIR>
- 16.7 million true colors (Color version)
- 256 gray shades (B/W version)
- Connect up to 4 + 1(VCR) cameras
- Quad only and switching video output
- Independent full screen viewing
- Auto sequential switching
- System auto detection
- Individual video channel adjustment
- Video loss indication
- Freeze feature
- VCR Zoom Playback
- Alarm I/O to cooperate with security system
- User friendly OSD (On Screen Display)

Table of contents

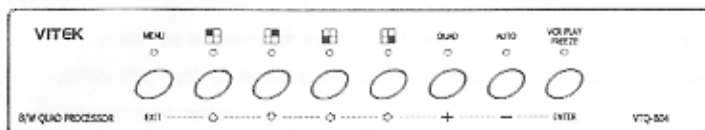
1. INDEX TO PARTS AND CONTROLS.....	1,2
1.1 FRONT VIEW	
1.2 REAR VIEW	
2. SET UP MENUS.....	2,3
2.1 MAIN LIST	
2.2 ALARM DURATION	
2.3 BAUD RATE	
2.4 DWELL TIME	
2.5 INT AUDIBLE ALARM	
2.6 EXT AUDIBLE ALARM	
2.7 TIME/DATE SET	
2.8 DWELL SET	
2.9 ALARM POLARITY	
2.10 CAMERA TITLE SET	
2.11 EVENT LIST	
2.12 VIDEO SET	
2.13 SYSTEM RESET	
3. ADDITIONAL OPERATIONS.....	3,4
3.1 FULL SCREEN	
3.2 QUAD	
3.3 AUTO	
3.4 FREEZE	
3.5 VCR PLAY BACK	
3.6 ALARM & VIDEO LOSS	
3.7 ALARM CONNECTOR PIN ASSIGNMENTS	
3.8 REMOTE CONTROL OPERATION	
4. ADDITIONAL INFORMATION.....	5
4.1 TROUBLESHOOTING	
4.2 SPECIFICATIONS	

1. INDEX TO PARTS AND CONTROLS

1.1 FRONT VIEW



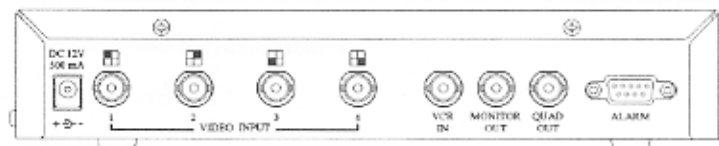
Color Version



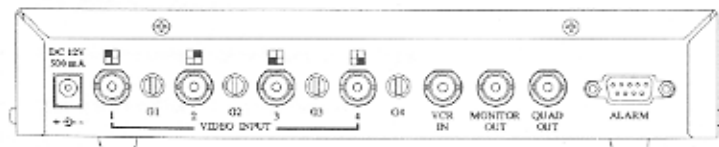
B/W Version

- MENU (exit)** - Allows access to the system setup menus and exit of the current status.
- CH1 (▲)** - Displays the CH1 camera in the full screen format. Also used as a cursor to select the function under the operating menu.
- CH2 (▼)** - Displays the CH2 camera in the full screen format. Also used as a cursor to select the function under the operating menu.
- CH3 (◀)** - Displays the CH3 camera in the full screen format. Also used as a cursor to move to necessary location under the operating menu.
- CH4 (▶)** - Displays the CH4 camera in the full screen format. Also used as a cursor to move to necessary location under the operating menu.
- QUAD (+)** - Displays 4 cameras in quad screen format. Also used to increase value and select function under the operating menu.
- AUTO (-)** - Starts automatic switching of cameras. Also used to decrease value and select function under the operating menu.
- VCR PLAY/FREEZE (enter)** - Gets into freeze or VCR play back mode. This button is also used to confirm/execute the current status.

1.2 REAR VIEW



Color Version



B/W Version

- DC12V** - This 2.1mm pin jack accepts the center positive source of 12VDC at 500mA.
- VIDEO INPUT** - These BNC connectors accept the composite video output of color/BW cameras.
- VCR IN** - Connect this port to the output port of your VCR or time lapse recorder.
- MONITOR OUT** - This BNC connector provides a composite video signal to video input of monitor or TV.
- QUAD OUT** - This BNC connector provides a composite video signal, connect this port to the input of a standard or time-lapse video recorder.
- ALARM** - For connection to external alarm system.
- G1, G2, G3 & G4** - Video gain adjustment (For B/W version).

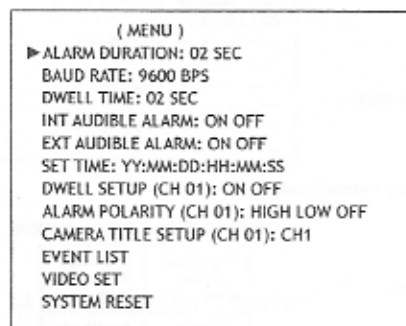
2. SET UP MENUS

A convenient system of on-screen menus allows you to set up key features such as sequencer dwell time, camera titles, camera color and time & date. The following paragraphs take you through the menu system step-by-step, describing each menu's purpose and options.

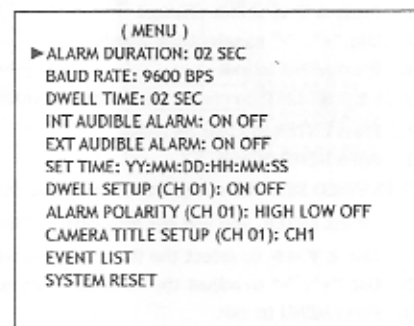
After connecting all cameras and monitor, make sure you plug the power supply into the quad to enable auto-detect feature. Now you have automatically turned on your Digital Quad Processor.

<MAIN LIST>

For Color version



For B/W version



2.1 MAIN LIST

- Press ▲▼ to select function
- Press ENTER to get into the selection
- Press MENU to exit the menu

2.2 ALARM DURATION: to set up the alarm duration time

- Use "+", "-" to set this option in seconds (1-99).
- Press MENU to exit

2.3 BAUD RATE: to set up remote control baud rate

- Use "+", "-" to set remote control baud rate (115200, 57600, 19200, 9600, 4800, 3600, 2400 and 1200)
- Press MENU to exit

2.4 DWELL TIME: to set up the auto switching time

- Use "+", "-" to set up switching time in seconds (1-30) when it's on auto switching mode.
- Press MENU to exit

2.5 INT AUDIBLE ALARM: to set up internal alarm

- Use ◀▶ to select the built-in internal alarm ON/OFF
- Press MENU to exit

2.6 EXT AUDIBLE ALARM: to set up external alarm

1. Use ◀▶ to set up the external alarm system ON/OFF
2. Press MENU to exit

2.7 SET TIME: to set up date time

1. Use "+", "-" to increase/decrease value.
2. Use ◀▶ to select the item that you would like to set up.
3. Press ENTER to choose the time display mode "YY/MM/DD/hh/mm/ss", "DD/MM/YY/hh/mm/ss" or "TIME DISPLAY OFF"
4. Press MENU to exit

2.8 DWELL SET UP: to set up auto switching channel

1. Press ▲▼ to select channel
2. Use ◀▶ to select ON/OFF.
3. Press MENU to exit

2.9 ALARM POLARITY: three options HIGH, LOW or OFF for polarity set up

1. Use ◀▶ to select polarity.
2. Press ▲▼ to select channel
4. Press MENU to exit

2.10 CAMERA TITLE SETUP: to set up each camera's title

1. Use ◀▶ to select the position
2. Press ▲▼ to select channel
3. Use "+", "-" to select the words
4. Press MENU to exit

2.11 EVENT LIST: to check the record of video loss or alarm status

1. Press ENTER to clear records
2. Press MENU to exit

2.12 VIDEO SET: video adjustment of each channel (For Color version only)

Press ENTER, you will get into video adjustment screen

1. Use ▲▼◀▶ to select the item that you want to set up
2. Use "+", "-" to adjust the value of brightness, contrast and color
3. Press MENU to exit

2.13 SYSTEM RESET: Press ENTER, system will go back to default value

CH	EVENT	YY/MM/DD
HH:MM:SS		

CH1	VLOSS	01/02/10
		12:20:15
CH2	ALARM	02/01/15
		22:10:25
		--/--/--
		--/--/--
		--/--/--
		--/--/--
		--/--/--
		--/--/--

Video Set (For Color version)

Brightness	Brightness
Contrast	Contrast
Color	Color
Brightness	Brightness
Contrast	Contrast
Color	Color

3. ADDITIONAL OPERATIONS

3.1 FULL SCREEN

Press any key of full screen, the picture of the corresponding quadrant will fill the whole screen of the monitor display. Press Quad key, screen will return to quad screen.

3.2 QUAD

Press Quad button, screen will show you 4 cameras in quad screen format.

3.3 AUTO

Press AUTO button, the unit will enter the auto sequential switching mode. It will display quad and full screen sequentially according to what you set in the MENU. Press Quad button, it will return to quad screen.



3.4 FREEZE

For freeze function, just press VCR PLAY/FREEZE (ENTER) button, you will see FREEZE on the right top of the screen. Then press the channel that you would like to freeze and you will see Z on the selected channel. To escape freeze mode, just press VCR PLAY/FREEZE (ENTER) button again.

3.5 VCR PLAY BACK

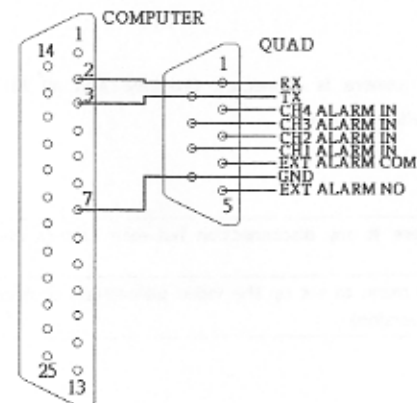
For VCR play back function, please press VCR PLAY/FREEZE (ENTER) button around 2-3 seconds, you will see VCR play back picture. You could press full screen or quad button to zoom in the picture when in VCR play back. To escape the VCR play back mode, just press VCR PLAY/FREEZE (ENTER) button again.

3.6 ALARM & VIDEO LOSS

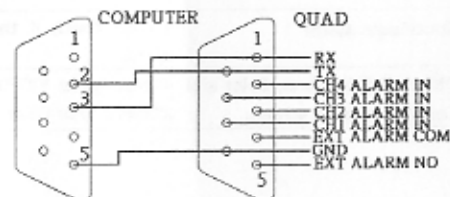
If you turn on the internal audible alarm and external audible alarm, the right side of camera title will show  when alarm or  when video loss.

3.7 ALARM CONNECTOR PIN ASSIGNMENTS

3.7.1 25 PIN COM PORT:



3.7.2 9 PIN COM PORT:



3.8 REMOTE CONTROL OPERATION

If you would like to connect this device to a computer, please find following ASCII codes for reference.

A	AUTO
Q	QUAD
M	MENU
V	VCR
F	FREEZE
1	CH1
2	CH2
3	CH3
4	CH4