VM-Q401A CCTV Color Quad Processor

User's Manual

www.cctvcamerapros.com/cctv-multiplexers

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 Alarm Input Video Loss Detection Motion Detection 60 Event Report Built-in Buzzer and Relay Output
- Remote Control by Infrared Transmitter

Rear Panel Installation

Color Quad system with Audio



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.

AUDIO IN Connection

Accept 4 composite audio inputs from the camera.

AUDIO OUT Connection

Provide 1 composite audio output for the main monitor.

Alarm Connection

Accept 8 alarm inputs and provide relay out. Refer to the Alarm Interface section.

RS-232C Connection

Provide RS-232C interface to be controlled by HOST. Refer to the RS-232C Interface section.

Power Jack Connection

DC 12V/1A, Center is positive.

Front Key Operation

Color Quad system front panel



MENU / ESC / A/B

Invoke menu setup / exit / change page A or B

AUTO / FREEZE

Invoke auto sequence function / freeze function

ZOOM / PIP / MODE

Invoke 2*ZOOM function / picture in picture / change display mode

VCR / ENTER

VCR playback / enter menu setup

- Image: Height Handler Hand
- Image: Height Handler Hand
- Image: Image
- Image: Height → Channel 4 (channel 8) display / right

Key Definition



Setup Menu Function / Quad A or B Display

Refer to the Setup Menu Operation section.

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



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.



Audio Display (Only with Audio color Quad system)

The display modes are circulated as the following sequence.



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 Picturein-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.





System Setup Menu

SYSTEM SETUP
DATE : YYYY-MM-DD 2004:01:01
TIME : HH-MM-SS 12-00-00
SYSTEM FORMAT : PAL SYSTEM ID NUMBER : 01 KEY LOCK : OFF
FACTORY RESET : NO
▲▼ SELECT ◀ ► ADJUST ENTER MENU EXIT

Factory Reset Menu				
FA	CTORY RESET			
THIS SYS THE CURF AND WILL WITH FAC ARE YB	WARNING! TEM GETS TO LOSE ENT SETTING VALUE BE INITIALIZED TORY RESET MODE. YOU SURE?			
 ✓ ► SELECT 	Entre	ER	(Menu) EXIT	

Display Setup Menu

DISPLAY SETUP	
DISPLAY ON SCREEN	
SCREEN POSITION X : 0 Y : O	
BORDER LINE COLOR O BLACK O GRAY1 O GRAY2 O WHITE O OFF	
▲▼ SELECT ◀► ADJUST	(Menu) EXIT

Camera Setup Menu

camera setu	IP
CAMERA : 1	TITLE : CAMERA1 BRICHTNESS : 0 CONTRAST : 0 SATURATION : 0 HUE : 0 SHARPNESS : 0 MIRRORING : OFF
▲▼ SELECT ◀ ► ADJUST	(Menii) EXIT

Auto Sequence Setup Menu

AU	ro sequenc	E DWELL TIME	
PAGE A	QUAD :	: 1 SEC	
	CAMERA1 :		
	CAMERA2 :		
	CAMERA3 :		
	CAMERA4 :		
PAGE B			
	CAMERA5 :		
	CAMERA6 :		
	CAMERA7 :		
	CAMERA8 :		
AV SELECT 🚽 🕨 ADJI	UST		(MENU) EXIT

Motion Setup Menu

MOTION	SETUP
CAMERA : 1	DETECTION TIME ALWAYS OFF ON : 11:00:00 OFF : 12:00:00 SENSITIVITY : 0 VELOCITY : 0 MASKING AREA [X,Y] = (0, 0)
AV SELECT V ADJUST	(Menu) EXIT

Event Setup Menu

		EVE	NT S	ETUP							
BUZZ	:er/report 🖬	1CON	TROL								
	CHANNEL	1	2		4	5	7	8			
	ALARM				√		~	√			
	LOSS				√		~	\checkmark			
	MOTION										
BUZZER HOLD TIME : 05 SEC REPORT HOLD TIME : 30 SEC											
▲ ▼ ◀ ► self	CT		Œ	NTER) en	ABLE		Mi	ENU) F	XIT	

		E١	vent Rep	ort		
			EVENT REPORT	1		
					OF 6 PAGE	
	NO	YY-MM-DD	HIH: MM:SS	CH	EVENT	
					LOSS	
		04-07-30			ALARM	
					MOTION	
		04-07-30	16:56:03		LOSS	
	5	04-07-30	16:56:03	5	ALARM	
		04-07-30			MOTION	
		04-07-30				
		04-07-30			MOTION	
		04-07-30				
		04-07-30	16:56:03		ALARM	
	LIST	CLEAR : NO)			
▲▼ SEL	ECT ·	<► SELE	CT PAGE			MENU EXIT

Event List Clear Menu

	LIST CLEAR
	WARNING! IS SYSTEM GETS TO LOSE E CURRENT EVENT LIST D WILL BE INITIALIZED TH BLINK. ARE YOU SURE? YES NO
SELECT	(Enter) (Menu) EXIT

POWER