# Panasonic®

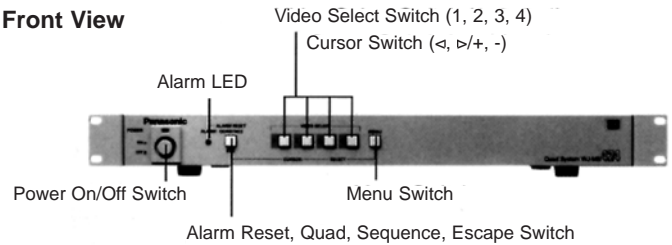# WJ-MS424 Color Quad System

## PRODUCT FEATURES

• 8-bit/14.3MHz sampling produces excellent color picture quality

• 720 horizontal pixel memory

• $\frac{1}{60}$ second refresh time

• 8-bit high S/N with a 256-step gray scale

• Accepts 4 camera inputs and outputs, a quad mixed picture to a monitor and connection to a time-lapse VCR

• At monitor output full screen mode can be activated to view 1 selected camera location

• Built-in field memory allows connection of virtually any 2:1 interlace camera without genlock capability

• On-screen alphanumeric identification of camera locations can be preset with up to 8 alphanumeric characters available for each of the 4 inputs

• Rear mounted alarm inputs for each camera location allow combination with alarm sensors

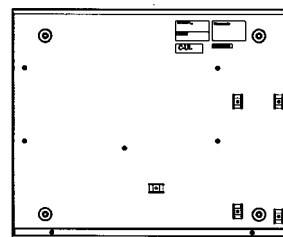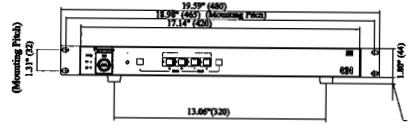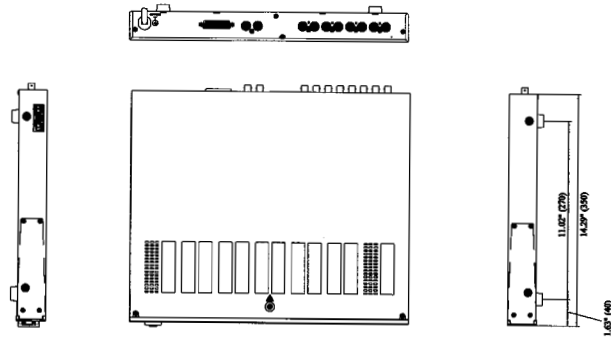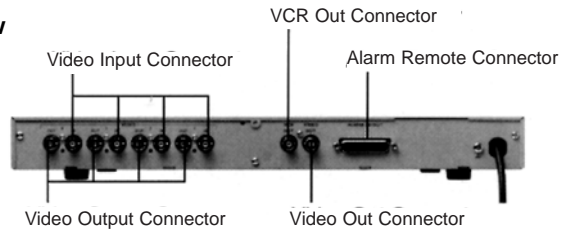• 2 separate types of video output connectors: video out and VCR out

The WJ-MS424 color quad system is the ideal multiple surveillance camera system for CCTV applications and is virtually compatible with any 2:1 interlace type camera. The WJ-MS424 displays up to 4 surveillance pictures, with border, on a single monitor. Excellent color picture quality is produced by 8-bit/14.3MHz sampling. On-screen alphanumeric identification (8-picture ID characters) details camera location.

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**Front View**

Video Select Switch (1, 2, 3, 4)
Cursor Switch (◁, ▷/+, -)
Alarm LED
Power On/Off Switch
Menu Switch
Alarm Reset, Quad, Sequence, Escape Switch

**Rear View**

VCR Out Connector
Video Input Connector
Alarm Remote Connector
Video Output Connector
Video Out Connector

Unit: inches (mm)

## WJ-MS424 Color Quad System

### GENERAL SPECIFICATIONS

| | |
|---|---|
| **Power Source** | 120VAC, 60Hz |
| **Power Consumption** | 13W |
| **Ambient Operating Temperature** | +14°F to +122°F (-10°C to +50°C) |
| **Weight** | 7.9 lbs. (3.6kg) |
| **Dimensions** | 1¾"H x 16½"W x 13¾"D (44 x 420 x 350mm) |
| **Frame Memory** | Sampling frequency: 14.3MHz Quantizing bit: 8-bit Pixels: 720 x 484 |
| **Internal Sync.** | 2:1 interlace; horizontal: 15.734kHz; vertical 60Hz |
| **Refresh Rate** | 1⁄60 sec. |
| **Video Input** | 2:1 interlace, composite 1V p-p 75 ohms, auto termination or loopthrough, black-and-white or color video signal x 4, (each video signal should be synchronized vertically for vertical interval switching. Does not have to be synchronized in case vertical interval switching is not required) |
| **Video Output** | Video output x 2, composite, 1V p-p 75 ohms color or black-and-white video signal with composite sync and burst signal |

| | |
|---|---|
| **Title** | Up to 8 characters for each window |
| **Alarm Input** | 1 for each 4 video inputs (max. 12VDC and a make-contact with the ground) |
| **Alarm Output** | 1 (max. 24VDC, 100mA, open collector circuit) |
| **Alarm Time** | Adjustable approx. 1–30 sec., 1, 2, 3, 4, 5 minutes or EXT |
| **Recover Input** | 1 (max. 12VDC and a make-contact for ground) |
| **Auto Reset Time** | Adjustable approx. 1–30 sec., 1, 2, 3, 4, 5 minutes or OFF |

### STANDARD ACCESSORIES
1 set. Rack-mount brackets
8 pcs. Rack-mount bracket fixing screws
Weights and dimensions shown are approximate.
Specifications subject to change without notice.

### SYSTEM APPLICATIONS



*System 1*

Alarm

Color Camera WV-CP450

Quad Unit WJ-MS424

Time-Lapse VCR

Color Monitor

Color Monitor

*System 2 (Single Wire System)*

Color Camera WV-CP150

WV-PS104C

Quad Unit WJ-MS424

Time-Lapse VCR

Color Monitor

Color Monitor
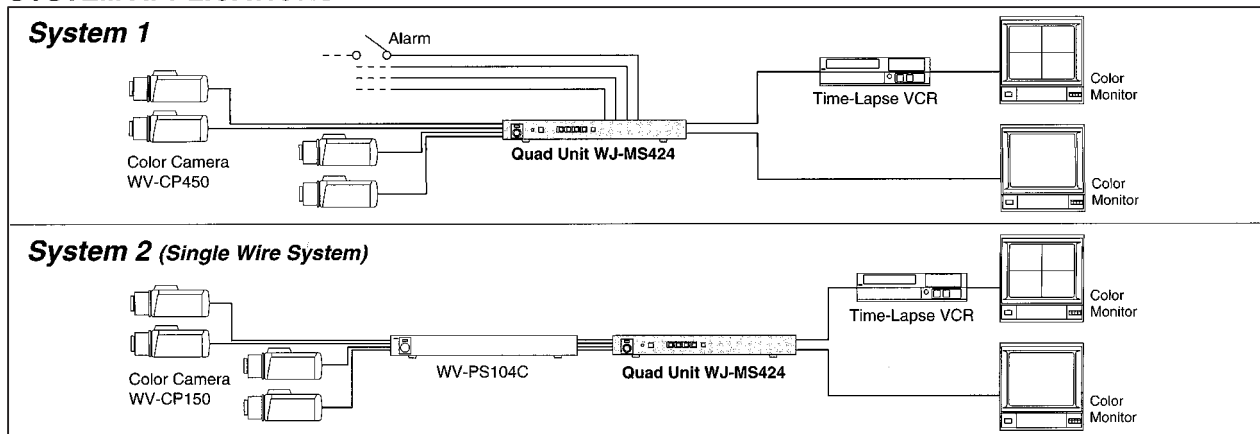
### ARCHITECTS' AND ENGINEERS' BID SPECIFICATIONS

The color quad system shall be a Panasonic model WJ-MS424 quad unit or equivalent. Up to 4 surveillance cameras shall be able to be connected to the quad system, and all 4 pictures shall be able to be displayed simultaneously on a single monitor screen divided into 4 blocks. Each of 4 images in the quad display mode shall be refreshed and appear in real time (60 fields/sec.) with no motion loss due to multiplexed display images. The quad system shall be able to use virtually any 2:1 interlace type camera. The system shall feature 8-bit/14.3MHz sampling, a built-in character generator display of up to 8 characters on each of the 4 blocks, a built-in sequential switch, on screen programming, border boundary in the quad mode and alarm function. The WJ-MS424 shall feature video loss detection for each channel, with alarm output capability. The color quad unit shall feature 4 alarm inputs (normally open dry contact, close on alarm), 1 for each video channel. Unit shall be rack-mountable and include rack-mount hardware for a single standard EIA rack height unit. The dimensions of the WJ-MS424 shall not exceed 1¾"H x16½"W x13¾"D. The power source shall be 120VAC, 60Hz. The unit shall be UL listed.

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