UPGRADE YOUR SYSTEM EFFICIENCY TIMES FOUR—HIGH-QUALITY COLOR QUAD PICTURES

The Panasonic WJ-MS424 Color Quad Systems is the ideal multiple surveillance camera system for CCTV applications and is virtually compatible with any 2:1 interlace type camera. Quad System displays up to four surveillance pictures, with border, on a single monitor. Excellent color picture quality is produced by 8bit/14.3 MHz sampling. On-screen alphanumeric identification (8 picture ID characters) details camera location. And two built-in sequential switching modes, with easy quad/full screen selection, marks the WJ-MS424 much more than a Quad Systems.

**Key Features**

**Great Picture Quality-8 bit/14.3MHz Sampling**

Responding to ever-changing camera performance, the WJ-MS424 produces excellent color picture quality. Advanced digital technology provides this unit with 720 horizontal pixel memory (14.3MHz sampling), 1/60 second refresh time, and 8 bit high S/N with a 256 step gray scale.

**Quad Picture and Sequential Switching Function**

The WJ-MS424 accepts four camera inputs and outputs, a quad-mixed picture to a monitor, and connection to a time-lapse VCR. At the monitor output, full screen mode can be activated to view one selected camera location. Also, the WJ-MS424 features two sequential switching modes to fit an operators specific needs.

**Flexible Sync Capability**

Built-in Field Memory allows connection of virtually any 2:1 interlace camera without gen-lock capability. In addition, loop-through video inputs/outputs permit easy system extension.

**Alphanumeric Character Generator**

On-screen alphanumeric identification of camera locations can be preset with up to eight (8) alphanumeric characters available for each of the four inputs.

**Alarm Input with Built-in Buzzer**

Rear mounted alarm inputs for each camera location on the WJ-MS424 allow the color Quad System to be combined with alarm sensors. When a sensor is triggered, an alarm-signal buzzer sounds, and the WJ-MS424 automatically displays a full-screen image of the appropriate location. In addition, on-screen alphanumeric indication of “ALARM” alternates with the preset camera location title. The WJ-MS424 can be combined with a time-lapse VCR through the alarm output and recover input connectors.

**Video Output connectors**

The Panasonic color Quad System Provides two separate types of video output connectors; Video out and VCR out.

**Quad Picture Borderlines**

A white borderline can be inserted around the quad pictures to divide the screen area.

**Video Loss Detection**

The video signal can be supplied to the video input for monitor testing.
**System Applications**

**System 1**
- Color Camera WV-CP450
- Quad Unit WJ-MS424
- Time-Lapse VCR
- Alarm

**System 2 (Single Wire System)**
- Color Camera WV-CP150
- WV-PS104C
- Quad Unit WJ-MS424
- Time-Lapse VCR

**Specifications**
- **Power Source**: AC 120V, 60Hz
- **Frame Memory**: Sampling frequency: 14.3MHz, Quantizing bit: 8bit Pixels: 720x484
- **Internal Synchronization**: 2:1 interface (Horizontal 15.734kHz; Vertical 60Hz)
- **Refresh Rate**: 1/60
- **Video Input**: 2:1 interface, composite 1V [p-p] 75 Ω. Auto termination or Loop-through, 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 certain vertical interval switching is not required.)
- **Video Output**: Video Input x 4, composite, 1V [p-p] 75 Ω color or black and white video signal with composite sync and burst signal.
- **Title**: Up to 8 characters for each window.
- **Alarm Input**: One for each 4 video inputs (Max. DC 12V and a make-contact with the ground).
- **Alarm Output**: One (Max. DC 24V, 100mA, open collector circuit)
- **Reset Input**: Adjustable approx. 1 to 30 seconds, 1, 2, 3, 4, 5 min. or EXT
- **Auto Reset Time**: Adjustable approx. 1 to 30 seconds, 1, 2, 3, 4, 5 min. or OFF
- **Ambient Operating Temperature**: +14°F to +122°F (–10°C to +50°C)
- **Dimensions**: 16-1/2” (W) x 1-3/4” (H) x 13-3/4” (D) mm
- **Weight**: 7.9 lbs. (3.6 kg)

**Appearance**
- Unit: inches (mm)

**Major Operating Controls**
- Front View
  - Power On/Off Switch
  - Menu Switch
  - Alarm Reset, Quad, Sequence, Escape Switch
  - Video Select Switch (1, 2, 3, 4)
- Rear View
  - VCR Out Connector
  - Alarm Remote Connector
  - Video Input Connector
  - Video Output Connector

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Weights and dimensions are approximate. Specifications are subject to change without notice. These products may be subject to export control regulations.