QD104 Series Digital Quad Video Processor

COLOR/BLACK-WHITE, ALARMS

Product Features

- High-Quality Quad Display (1024H x 512V)
- Real-Time Quad Video
- Low Cost
- Four Camera Inputs with Four Looping Outputs
- Quad Monitor Output That Displays Continuous Four-Camera Image
- Call Monitor Output That Displays Full-Screen or Quad Image
- Sequencing of Full-Screen and Quad Views
- Automatic Time-Base Correction Eliminates the Need for Camera Synchronization
- Five Alarm Inputs, One Alarm Output

The **QD104 Series Quad** is a high quality, low cost, color/black-white video processor capable of displaying full-screen or quad views of four camera inputs.

A quad monitor output displays a continuous quad image. For greater versatility, a call monitor output offers several additional viewing options. For more detail or easier viewing, the call monitor output can display a full-screen view of any camera output. Or this output can be used to display the quad image on a second monitor. And the call monitor output supports sequencing. Sequencing can include full-screen views of any of the four cameras as well as the quad image. Camera selection and sequence programming for the call monitor is done with front panel push buttons.

All camera inputs have looping outputs that add to the capability of the quad by providing connections for additional video equipment.

A real-time quad update rate assures live video on all camera outputs. And automatic time base correction means no external synchronization of cameras is required. If any camera input loses video, the monitor display for that camera appears black.

There are five alarm inputs, one for each of the four cameras, plus one for the quad input. When there is an alarm, that camera is switched to the call monitor's output for the duration of the alarm or until an operator acknowledges the alarm by pressing the front panel button associated with the alarmed camera. Multiple alarms will sequence at a two-second rate. An alarm output can trigger a VCR or an external alarm indicator, such as a light or buzzer.

The quad comes in a desktop cabinet of the same style as the Genex® Series multiplexer. A 9-inch (23 cm) monitor can be placed on top of the unit. A separate rack kit provides all the hardware necessary to mount one or two quads in a standard 19-inch (48 cm) equipment rack. The rack kit includes a filler panel when installing a single quad.

MODELS

QD104C	Color quad, NTSC, 120 VAC, 60 Hz
QD104M	Black-white quad, EIA, 120 VAC, 60 Hz

VIDEO

Input Level	1 Vp-p, composite
Video Standard	525 lines, 60 fields/second
Digital Image	1024 (H) x 512 (V) pixels
Quad Update Rate	Real time
Analog Frequency Response	Better than 12 MHz
Crosstalk at Color Subcarrier	Better than -60 dB
Differential Gain	Less than 2 percent
Differential Phase	Less than 2 degrees
Signal-to-Noise Ratio	Better than -60 dB

ELECTRICAL

Operating Voltage	12 VAC; unit includes power supply
Power	6 watts
Video Inputs	Four, BNC, looping, 75-ohm/Hi Z termination
Monitor Outputs	Two, BNC, 75 ohms
Alarm Inputs	Five N.O. inputs
Alarm Output	10K ohm output resistance; TTL, CMOS compatible
Alarm Clearance	Automatic with manual override
Sequence Dwell Times	Programmable for 2, 4, 8, or 16 seconds

GENERAL

Operating Temperature	32° to 120°F (0° to 49°C)
Relative Humidity	95%, non-condensing
Dimensions	1.73" H x 10.20" D x 8.44" W (4.39 x 25.90 x 21.43 cm)
Finish	Charcoal gray
Unit Weight	3 lb (1.36 kg)
Shipping Weight	4 lb (1.81 kg) approximate

CERTIFICATIONS

- FCC, Class B (QD104C)
- FCC, Class A (QD104M)

OPTIONAL ACCESSORIES

RK100	Rack-mount kit (1 RU) for mounting one or two QD100 Series Quads in a standard 19-inch rack. Blank filler panel provided.

Notice: *Judgment as to the suitability of the products for users' purposes is solely the users' responsibility. Users should refer to the Operation manuals for cautionary statements regarding user selected options and how they might affect video quality. Users shall determine the suitability of the products for their own intended application, picture rate and picture quality. In the event users intend to use the video for evidentiary purposes in a judicial proceeding or otherwise, users should consult with their attorney regarding any particular requirements for such use.*