



Multivision Quest

COLOR TRIPLEX MULTIPLEXER



The Multivision Quest Triplex series offers advanced features not typically found in standard multiplexers. The triplex capability allows users to view live and recorded video simultaneously on the same screen, while also recording at the same time. Viewing options are available for 2x zoom, picture in picture, programmable sequential switching, and a variety of multi-view screen layouts in any combination of live and recorded video. Users can also use the active window feature to select a window (live or playback) to display video in real time. Video inputs can be programmed as covert so that certain cameras are recorded but not viewable on the monitors.

Three types of alarm events are supported: video loss, alarm inputs via the rear panel, and motion detection. Motion detection for each individual camera is programmed via a detection grid and has two settings for indoor/outdoor applications. Each alarm event can be programmed to put the multiplexer into alarm mode, which can result in on-screen alarm text, an internal buzzer sounding, and a relay being triggered. Motion detection, as well as triggered alarm inputs, can be programmed to increase the camera record rate based upon time of day. Alarm dwell time is user selectable from 1 to 9,999 seconds. In addition, as these events occur they are stored in a non-volatile event history log. The most recent 255 events are kept in the list. Video inputs can be programmed for priority recording during normal and alarmed activity.

For installations where cameras are located at long distances and video signal integrity is affected, the gain control for each individual camera can be adjusted to restore picture quality.

The multiplexer has two passwords: one for resetting the unit to factory settings, one for configuring the unit during installation.

FEATURES

- View live and pre-recorded video simultaneously on same screen while recording at the same time
- 10 and 16-channel versions
- 720 x 480 (NTSC) / 720 x 576 (PAL) pixel display with 256 grays and 16 million colors
- 60 (NTSC)/50 (PAL) fields/second refresh rate
- Covert camera programming
- "Per-camera" scheduler for day/night alarm and motion settings
- Intelligent video motion detection
- History log for up to 255 alarms, video loss or motion detection events
- Record and alarm priority levels for each camera
- 2x digital zoom
- User-friendly on-screen menus
- Can play back encoded video from other Robot MultiVision multiplexers
- Two levels of password protection
- Active window selection for real time display
- Adjustable gain control for each camera
- Ability to freeze live and recorded images
- Up to three user programmable main monitor sequential switching modes

SPECIFICATIONS

Model Numbers

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|------------------|---|
| TMV910Q | Triplex, 10 channel, color multiplexer, 120VAC, NTSC |
| TMV96Q | Triplex, 16 channel, color multiplexer, 120VAC, NTSC |
| TMV910Q -1 | Triplex, 10 channel, color multiplexer, 230VAC, PAL |
| TMV96Q -1 | Triplex, 16 channel, color multiplexer, 230VAC, PAL |

Accessories

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| MQRPNL | Remote Panel, 60/50Hz |
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Operational

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|------------------------------|---|
| Video Inputs | 10 or 16 depending upon model |
| Image Rate | 60 fields/sec (NTSC) 50 fields/sec (PAL) |
| Video Resolution | 720 x 480 display (NTSC) 720 x 576 display (PAL) |
| Display Formats | 1, PIP, 4, 7, 9, and 10 windows (10 Channel) 1, PIP, 4, 7, 9, 10, 13, and 16 windows (16 Channel) |
| Gain Control | 1 to 16 (70 to 150%) |
| Motion Detection Grid | 192 points, 16 horizontal x 12 vertical |
| Motion Detection Settings .. | Adjustable sensitivity indoor or outdoor algorithms |
| Event History Log | 255 alarm contact, video loss or motion detection events |
| Alarm Duration | Programmable 1 to 9,999 seconds |
| Record Priority | 1 to 16 (lowest to highest priority) |
| Alarm Record Priority | 1 to 16 (lowest to highest priority) |

Video Inputs/Outputs

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|---------------------------|--|
| Video Inputs | 10 or 16 looping composite, 1Vp-p, selectable 75 Ω or High-Z, BNC |
| VCR Input | Composite, 1Vp-p, 75 Ω, BNC S-Video, 1Vp-p, 75 Ω, 4-pin mini-DIN |
| VCR Output | Composite, 1Vp-p, 75 Ω, BNC S-Video, 1Vp-p, 75 Ω, 4-pin mini-DIN |
| Main Monitor Output | Composite, 1Vp-p, 75 Ω, BNC S-Video, 1Vp-p, 75 Ω, 4-pin mini-DIN |
| Call Monitor Output | Composite, 1Vp-p, 75 Ω, BNC |

Connectors

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|---------------------------|---|
| Alarm Input | 10 or 16, one per camera, programmable as normally open or normally closed |
| Common Alarm Output | One normally open or closed form C relay, 0.5A/120VAC or 2.0A/24VDC |
| Day/Night Switch | One, active high or low TTL input |
| Day/Night Output | One, TTL output |
| VCR Trigger | One, TTL input |
| Set Alarm | One, contact closure or TTL/CMOS input |
| Reset Alarm | One, contact closure or TTL/CMOS input |
| RS-485 | Two, RJ-11 ports |
| Remote Panel | One, RJ-45 port |

Electrical

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|---------------------|---|
| Input Voltage | Regulated, 12VDC ± 10% |
| Power | 16 Watts |
| Power Supply | 12VDC ± 10%, 2 A, 2.1 mm pin-jack, positive center conductor |

Mechanical

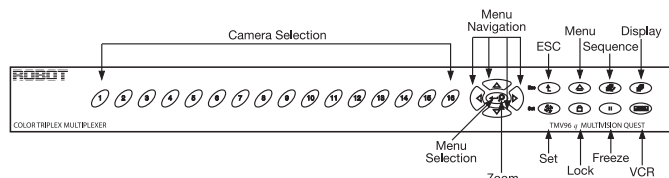
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|------------------------------|--|
| Dimensions (H x W x D) | 44 x 432 x 270 mm (1.7 x 17.0 x 10.6 in.) |
| Unit Weight | 3.2 kg (7.0 lbs) |
| Shipping Weight | 5.0 kg (11.0 lbs) |
| Color | Black |
| Rack Mounting Kit | Two L-shaped brackets 1U rack height (included) |

Environmental

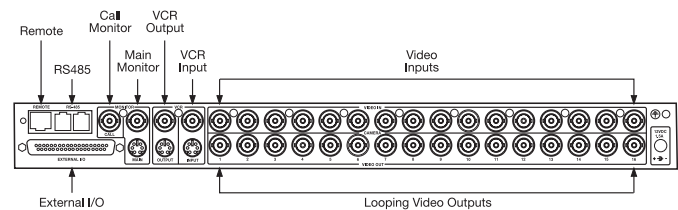
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|-----------------------------|-------------------------------|
| Operating Temperature | 5° to 40° C (41° to 104° F) |
| Storage Temperature | -20° to 70° C (-4° to 158° F) |
| Humidity | 10%-90% RH, non condensing |

Regulatory

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| Emissions | FCC Part 15, Subpart B, Class A EN55022, 1998 Class A |
| Immunity | EN50082-1 1997 CISPR 22: 1997, Class A |
| Safety | UL and CUL 1950 EN60950 |



Front Panel



Rear Panel