

MX4009MD/MX4016MD Genex® Series Multiplexer

BLACK-WHITE, DUPLEX, 9/16 VIDEO INPUTS

Product Features

- Full Duplex Operation
- “Covert” Feature Allows Selected Cameras to be Recorded, but not Displayed During Live Viewing or Playback. Viewing or Playback of “Covert” Cameras can be Password Protected
- Simultaneous Viewing of Up to 16 Cameras While Recording or Playing Tapes
- Advanced Digital Video Processing, Including Advanced Image Re-sizing and Digital Filtering. Provides High Quality Multi-Camera and Zoom Displays
- Looping Inputs
- Multi-Camera Display Modes – PIP (2), Quad (4), Nine (9), and Sixteen (16) Camera Displays
- Advanced Activity Detection – Programmable Detection Mask and Sensitivity Levels for Each Camera
- Four VCR Compatibility Modes – Standard, Auto Tracking, VCR Matching, and Custom
- Playback of Other Manufacturers’ Tapes* (see note on back)
- Menu Programming for Quick, Easy Setup
- Multi-language Support; English (Default), French, Spanish, or German
- On-Screen Alphanumeric Display – 12 Character Camera Titles, Time, Date, and Alarm
- Three Independent Monitor Outputs
 - Main Output – Full-Screen Call-up, Multi-Camera Displays, VCR Playback and Sequencing
 - Spot Monitor Output – Full-Screen Call-up, Sequencing, Activity, and Alarms
 - Auxiliary Monitor Output – Full-Screen Sequencing, Activity, and Alarms
- Alarm Handling – Priority or Exclusive Alarm Recording and Display
- Remote Control via RS-485 Communications Port
- Pan/Tilt and Lens Control via Coaxitron® ** (see note on back)



MX4009MD (TOP), MX4016MD (BOTTOM)

The **Genex**® high performance, black-white duplex multiplexer utilizes the latest in digital video processing technology, providing high-quality recordings and outstanding multi-camera displays.

Available in 9- or 16-channel versions, **Genex** can multiplex up to 9 or 16 cameras for recording on a single VCR. During recording and playback any camera may be viewed independently or combined in a multi-camera display.

Unlike most multiplexers, **Genex** contains a powerful re-sizing engine that uses patented Active Image™ technology to provide broadcast-quality, image re-sizing for both multi-camera and zoom displays. This technology allows Genex to provide higher quality images with less aliasing.

Genex allows live or recorded cameras to be displayed full-screen or combined with others in a picture-in-picture, quad, nine, or sixteen camera display. Cameras may also be displayed sequentially in either full-screen or multi-camera format. An adjustable zoom mode provides full control of digital magnification of any camera for closer examination.

An advanced activity detector can prioritize cameras for faster recording and display independent of record or playback speeds. Two additional monitor outputs (spot and auxiliary) can be used to display full-screen cameras manually, sequentially, or as a result of alarms and activity detection.

Genex is easy to use; offers intuitive push-button controls for operation; and has password-protected, on-screen menus for easy system setup.



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International Standards Organization Registered Firm; ISO 9001 Quality System



TECHNICAL SPECIFICATIONS

MODELS

MX4009MD	9-channel, black-white duplex multiplexer, RS-170, 120 VAC, 60 Hz
MX4009MD-X	9-channel, black-white duplex multiplexer, CCIR, 230 VAC, 50 Hz
MX4016MD	16-channel, black-white duplex multiplexer, RS-170, 120 VAC, 60 Hz
MX4016MD-X	16-channel, black-white duplex multiplexer, CCIR, 230 VAC, 50 Hz

VIDEO

Input Level	1 Vp-p, composite
Video Standard	EIA RS-170 625 lines, 50 fields/second CCIR 625 lines, 50 fields/second
Digital Image	768 (H) x 512 (V) pixels full screen 8-bit luminance, 256 shades of gray
Geometric Error	Less than 1 percent, all modes
Resizing	Multi-element horizontal and vertical finite impulse response
Analog Processing Bandwidth	20 MHz
Character Generator	Programmable, bit mapped

ELECTRICAL

Operating Voltage	120 VAC (+15/-30%), 50/60 Hz or 230 VAC (+15/-30%), 50/60 Hz
Power	Less than 25 watts
Video Inputs	Nine (MX4009) or sixteen (MX4016) BNC, looping with programmable termination of 75 ohms or Hi-Z
Monitor Outputs	Three Main BNC, 75 ohms Spot BNC, 75 ohms AUX BNC, 75 ohms
VCR Inputs/Outputs	One each VCR In BNC, composite, 75 ohms VCR Out BNC, composite, 75 ohms
Alarm Inputs	Nine (MX4009) or sixteen (MX4016) individually programmable for N.O. or N.C.
Alarm Output	1 Form-C relay, 0.5A continuous, 1A momentary

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.

GENERAL

Environmental	
Operating Temperature	32° to 122°F (0° to 50°C)
Relative Humidity	90%, non-condensing
Desktop Dimensions	1.75" H x 17.2" W x 12.2" D (4.45 x 43.69 x 30.99 cm)
Rack Mount Dimensions	1.75" H x 19" W x 12.2" D (1 RU) (4.45 x 48.26 x 30.99 cm) (Rack ears and screws provided for rack mounting)
Unit Weight	10 lb (4.53 kg) approximate
Shipping Weight	14 lb (6.34 kg) approximate

CERTIFICATIONS/PATENTS

- CE, Class B
- UL Listed
- UL Listed to Canadian safety standards
- Complies with Argentina compliance requirements under Res. 92/98.
- FCC, Class B (MX4009MD, MX4016MD)
- C-Tick

OPTIONAL ACCESSORIES

KBD4000**	Full-function keyboard controller; joystick control of pan/tilt functions. Use with Genex multiplexer and server.
KBD4002**	Same as KBD4000 except keypad control of pan/tilt functions.
MX4000SVR	Multiplexer server, 120 VAC, 60 Hz, for use with NTSC and RS-170 format multiplexers. Provides centralized control of up to 8 multiplexers by one or more operators.
MX4000SVR-X	Same as MX4000SVR except 230 VAC, 50 Hz, for use with PAL and CCIR format multiplexers.

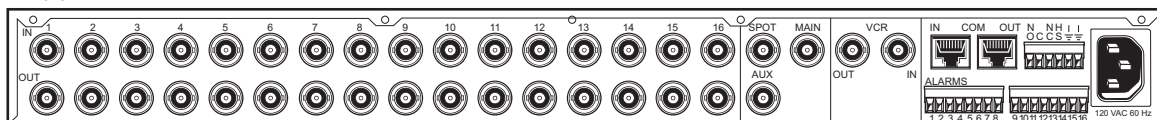
Notes:

*Pelco Genex® multiplexers can normally decode tapes made with other manufacturers' multiplexers. However, Dedicated Micros models DM/SPG4/S/N/090 and DM/SPC4/D/N/6M must be properly programmed to create tapes that are compatible with Genex multiplexers. Tapes made with DM model SPR2AS/C/M/M are incompatible. (Refer to TechTip 00-3038 for details.)

**When used with 15-bit standard Coaxitron® receivers (such as the CX9000 Series, the PT7700, and the ED25/27/28/29), the KBD4000 supports all pan, tilt and lens functions and auxiliary on/off. It will not set or call presets, or support preset scan.

When used with the 32-bit extended Coaxitron receivers (such as Intercept®, Spectra®, and Legacy® LRD41C21/LRD41C22 Series), the KBD4000 will support all of the functions above, including set and call presets and patterns. It will not support programming of preset or pattern labels. If labels for presets or patterns are required, they would need to be programmed with a different control.

MX4016MD REAR VIEW



Note: Model MX4009MD has two rows of 9 BNCs.



Pelco Worldwide Headquarters:

3500 Pelco Way, Clovis, California 93612-5699 USA
USA & Canada Tel: (800) 289-9100 • FAX (800) 289-9150
International Tel: (559) 292-1981 • FAX (559) 348-1120
www.pelco.com

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