Genex® Series Multiplexer

COLOR, 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 or "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
- Mutli-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 Sequencing, Activity, and Alarms
  - Auxiliary Monitor Output – Full-Screen Sequencing, Activity, and Alarms
- Alarm Handling – Priority or Exclusive Alarm Recording and Display
- Compatible with S-VHS VCRs and Monitors (Main Output)
- Remote Control via RS-485 Communications Port
- Pan/Tilt and Lens Control via Coaxitron® **(see note on back)

MX4009CD (TOP), MX4016CD (BOTTOM)

The **Genex**® high performance, color 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.

TECHNICAL SPECIFICATIONS

MODELS

MX4009CD	9-channel, color duplex multiplexer, NTSC, 120 VAC, 60 Hz
MX4009CD-X	9-channel, color duplex multiplexer, PAL, 230 VAC, 50 Hz
MX4016CD	16-channel, color duplex multiplexer, NTSC, 120 VAC, 60 Hz
MX4016CD-X	16-channel, color duplex multiplexer, PAL, 230 VAC, 50 Hz

VIDEO

Input Level	1 Vp-p, composite
Video Standard	
NTSC	525 lines, 60 fields/second
PAL	625 lines, 50 fields/second
Digital Image	768 (H) x 512 (V) pixels full screen 1,536 bytes horizontal memory 26 MB display image memory 8-bit luminance, 256 shades of gray 8-bit chrominance, over 16 million colors
Format	CCIR 601 4:2:2
Sampling Rate	13.5 MHz
Geometric Error	Less than 1 percent, all modes
Resizing	Multi-element horizontal and vertical finite impulse response
Analog Processing	
Bandwidth	20 MHz
Differential Phase	Less than 2 degrees
Differential Gain	Less than 2 percent
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 4-pin mini-DIN, YC output (S-VHS)
Spot	BNC, 75 ohms
AUX	BNC, 75 ohms
VCR Inputs/Outputs	One each
VCR In	BNC, composite, 75 ohms 4-pin mini-DIN, YC input (S-VHS)
VCR Out	BNC, composite, 75 ohms 4-pin mini-DIN, YC output (S-VHS)
Alarm Inputs	Nine (MX4009) or sixteen (MX4016) individually programmable for N.O. or N.C.
Alarm Output	One Form-C relay, 0.5A continuous, 1A momentary

GENERAL

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 (MX4009CD-X, MX4016CD-X)
- UL Listed (MX4009CD and MX4016CD)
- UL Listed to Canadian safety standards (MX4009CD and MX4016CD)
- Complies with Argentina compliance requirements under Res. 92/98. (MX4009CD-X and MX4016CD-X)
- FCC, Class A (MX4009CD and MX4016CD)
- U.S. Patent pending

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.

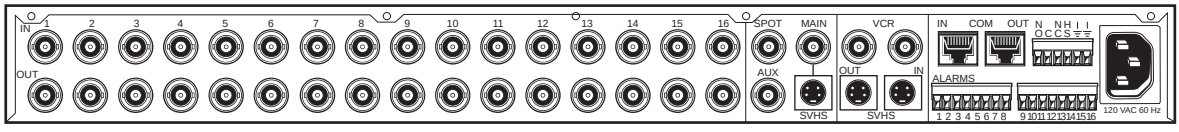
Notes:

*Pelco Genex multiplexers can normally decode tapes made with other manufacturer's 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, such as the MPT9500.

MX4016CD REAR VIEW



NOTE: MODEL MX4009CD HAS TWO ROWS OF 9 BNCs ONLY.

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