

MX4009CS/MX4016CS Genex® Series Multiplexer

COLOR, SIMPLEX, 9/16 VIDEO INPUTS

Product Features

- Efficient Recording of up to 16 Cameras on 1 VCR
- “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
- Full-Screen Viewing of Cameras While Recording
- Advanced Digital Video Processing, Including Advanced Image Re-sizing and Digital Filtering. Provides High Quality Multi-Camera and Zoom Displays During Playback
- 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)
- Direct 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, Alarm and Video Loss
- Two Independent Monitor Outputs
 - Main Output – Full-Screen Call-up and Sequencing While Recording; Full-Screen Call-up and Multi-Screen Displays During Playback
 - Spot Monitor Output – Full-Screen Call-up, Sequencing, Activity and Alarms
- Alarm Handling – Priority or Exclusive Alarm Recording and Display
- Pan, Tilt, and Lens Control via Coaxitron® ** (see note on back)



MX4009CS (TOP), MX4016CS (BOTTOM)

The **Genex**® high performance, color simplex multiplexer utilizes the latest in digital video processing technology, providing high-quality recordings or 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 any camera may be viewed independently or combined with others in a sequence. During 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. 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. The additional spot monitor output can be used to display full-screen cameras manually, sequentially, or as a result of alarms.

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

MX4009CS	9-channel, color simplex multiplexer, NTSC, 120 VAC, 60 Hz
MX4009CS-X	9-channel, color simplex multiplexer, PAL, 230 VAC, 50 Hz
MX4016CS	16-channel, color simplex multiplexer, NTSC, 120 VAC, 60 Hz
MX4016CS-X	16-channel, color simplex multiplexer, PAL, 230 VAC, 50 Hz

VIDEO

Input Level	1 Vp-p, composite
Video Standard	NTSC PAL
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, 75 ohms Hi-Z
Monitor Outputs	Two
Main	BNC, 75 ohms
Spot	BNC, 75 ohms
VCR Inputs/Outputs	One each 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.
Relay Output	One Form-C relay, 0.5A continuous, 1A momentary; programmable for alarm or activity activation

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 (1RU) (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 (MX4009CS, MX4016CS)
- 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.

Notes:

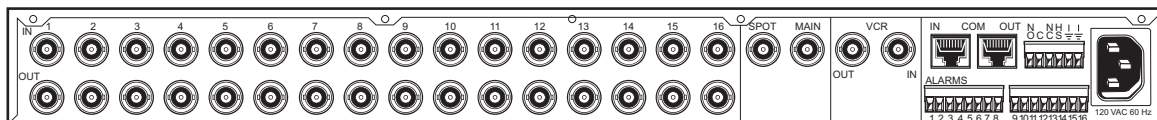
*Pelco Genex® multiplexers can normally decode tapes made with other manufacturers' multiplexers. However, Dedicated Micros models DM/SPG4/S/N/090 and DM/SPC4/D/N/6M must be properly programmed to create tapes that are compatible with Genex multiplexers. Tapes made with DM model SPR2AS/C/M/M are incompatible.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

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.

MX4016MS REAR VIEW



Note: Model MX4009MS has two rows of 9 BNCs.



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