

# 4-Camera Monochrome Multiplexer

*e*series

ADEMCO Video's AXMD4E Monochrome Multiplexer combines the best of today's technology with superior functionality to bring you a versatile multiplexer that can easily be configured to meet your specific installation requirements.

The AXMD4E will simultaneously view, record and play back 4-camera inputs. The multiplexer displays the cameras in a variety of views as well as four user-definable formats. In addition to the main monitor, the AXMD4E supports a single spot monitor, which can be selected to display a specific camera, the entire sequence of cameras, or a user sequence.

In addition to the unit's convenient front panel controls, the AXMD4E's user-friendly, mouse driven, on-screen menus make setup and operation quicker and easier than ever before. Easy to program features such as video motion detection, alarm detection, day/night settings for each camera, and processing of alarm events can be set up on screen using a standard PS2 mouse (included). The familiar mouse-driven functionality also allows changes, such as display formats, to be made easily.

The AXMD4E advanced features bring powerful, integrated solutions to your video system. Features like video motion detection, time synchronization of multiple multiplexers, flexible alarm processing and enhanced picture processing, provide unparalleled image quality and unsurpassed performance.

The AXMD4E can be controlled remotely with a PC, or the RapidView AKJX8A Dome/Multiplexer Controller. The AXMD4E is part of ADEMCO Video's e-Series, featuring products of exceptional value and performance for everyday use.



**AXMD4E**

## **FEATURES:**

- Convenient operation using a PS2 mouse (included) or front panel controls
- User-friendly menu structure for simplified operation and programming
- Multiple monitor outputs allow simultaneous multi-camera and full screen viewing
- Simultaneous recording, playback and viewing
- Programmable vector base motion detection with 256 target (16x16) grid per camera
- RS232 or RS485 control
- Alarm input per camera, selectable polarity
- Supervisor code plus four user codes
- Programmable day and night motion detection schedules
- Multi-lingual setup menus
- Digital zoom, (1x – 32x)
- Capable of decoding tapes from many multiplexers
- On-screen display includes time, date, alarm status, video loss and camera title

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# 4-Camera Monochrome Multiplexer

## ADDITIONAL FEATURES

### Mouse Control

In addition to the front panel controls, the multiplexer can be operated using a mouse (included with unit). Everyday functions are greatly simplified through use of familiar computer type functions such as pop up screens, easy-to-understand menu screens and toggle options. Simply point and click and you can perform all multiplexer operations using this extremely user friendly user interface.

### Spot Monitor

The Multiplexer contains a single independent auxiliary spot monitor. This monitor supplements the main output monitor. The spot monitor can be used to display a specific camera image, scroll through the entire sequence of cameras, or user sequence of cameras. The spot monitor view can be changed at any time with a simple click of the mouse. This provides extreme flexibility and eliminates the need for a separate matrix switch system.

### System Security Features

The multiplexer contains four different user passwords as well as a supervisor code. These four digit codes provide secure access to the various multiplexer functions. Each camera has programmable options to determine which users can view the camera, which spot monitors can display the camera, and if the camera can be recorded.

### Motion Detection

The e-Series Mux has a sophisticated motion detection scheme, which can be set up to detect motion change in any direction. The motion detection area and sensitivity can be selected to suit the requirements. In addition, both day and night schedules can be established for motion detection.

### Electronic Zoom

Camera images can be electronically enlarged up to a zoom factor of 32. In the zoom mode a screen appears displaying the area of the screen impacted. Simply select the portion of the image to be enhanced, then use the zoom button to enlarge to the desired value. The selected image can then be frozen.

### Alarm Processing

The Multiplexer contains an alarm input camera as well as two programmable alarm outputs. The system provides customized alarm response for specific security areas. Up to 4 e-Series multiplexers can be linked together.

### Three-Way Operation

The system permits simultaneous recording, playback, and live viewing.

### Flexible Display Options

The main monitor can display either a full-screen camera view, 2x2, PIP1, PIP2 or PIP3 (Picture in Picture) display. In addition, there are four user definable display modes allowing selection of various screen formats and the cameras to appear in each customized view.

### Software Management

Bi-directional RS232 or RS485 communications allows software control of multiplexer features. Remote control the unit through ADEMCO Video's AKJX8A Keyboard/Controller or a PC with third party software management tools.

### High Resolution Display

With 720 x 480 pixel output to a VCR, and up to 648 X 448 output to the monitor the e-Series Mux provides high-resolution, true-to-life images for live and recorded events. This performance results in superior surveillance and easier identification.

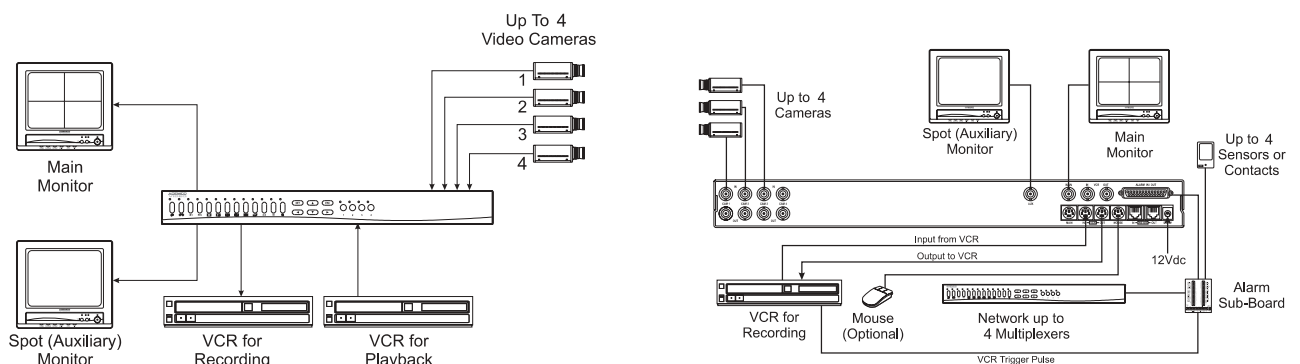
### Alarm History Log

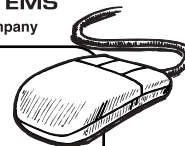
A time-stamped event log displays the last 256-alarm events including the source of the event, camera number, time, date and the user number.

### Multi-Lingual Option

The Multiplexers' screens and menus can appear in English, French, Italian, German and Spanish. Languages can be selected from the setup menu without the need for additional model numbers.

## SYSTEM DIAGRAMS





### SIMPLE OPERATION (16 channel example shown below)

All of the powerful features of the AXMD4E Multiplexer are only a point and click away. Here are some of the most commonly used functions:

#### Multiplexer Operations



Simply move the mouse to the top of the screen and you are presented with the operational modes for the multiplexer. Select between Live mode, Playback, Preview or System Setup. Optional password protection exists for certain functions.

#### Spot Monitor



It's easy to change the contents of the single spot monitor. Simply select the spot monitor and select a specific camera, the entire sequence, or a user sequence.

#### Display View Mode



Simply move the mouse to the bottom of the main monitor screen and the various display options are shown. Choose between a full screen view, PIP1, PIP2, PIP3 (Picture in Picture), 2x2, or any of the four customizable user-definable views.

#### Zoom Mode



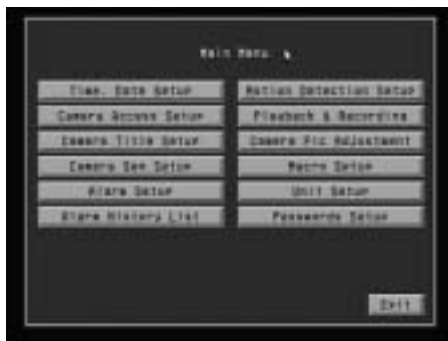
Upon selecting a camera image zoom, a screen will appear. An inset area allows you to select the portion of the image to zoom (up and down arrows), and the in/out buttons control the zoom factor. The AXMD4E provides an electronic zoom up to 32 times normal.

#### Functional Operations



Right click the mouse and select functions such as live camera change, zoom, freeze mode or sequence type.

#### System Programming Main Menu



System programming is simplified through an efficient menu structure. Simply point and click with the mouse to select the desired category, and you will be presented with the appropriate programming options.

# AXMD4E

## SPECIFICATIONS:

### OPERATIONAL

- **Video Standard:** NTSC (525 lines, 60 fields/second) (Model AXMD4E) or PAL (625 lines, 50 fields/second) (Model AXMD4EX)
- **Digital Memory:** 720 x 480 pixels full screen to VCR, 648 x 448 full active screen, 256 shades of grayscale

### VIDEO LEVELS

- **Camera Inputs (4)** 1.0 Vp-p, 75 Ohms
- **Camera Looping Outputs (4)** 1.0 Vp-p, 75 Ohms
- **Loop Through Outputs (4)** 1.0 Vp-p, 75 Ohms

### VCR Input:

- **Composite** 1.0 Vp-p, 75 Ohms
- **S-Video** Luma 1.0 Vp-p, 75 Ohms Chroma (burst) .286 Vp-p, 75 Ohms

### Main Monitor Outputs:

- **Composite** 1.0 Vp-p, 75 Ohms
- **S-Video** Luma 1.0 Vp-p, 75 Ohms Chroma (burst) .286 Vp-p, 75 Ohms

- **Spot Monitor Output:** 1.0 Vp-p, 75 Ohms (1 output)

### MOTION DETECTION

- **Activity Grid** 16 horizontal x 16 vertical (256 total)
- **Sensitivity Levels** 16
- **Activity Detection** Intrusion (all motion) or Vector (directional)
- **Motion Delay Time** 0 to 5 seconds
- **Motion Hold Time** 1 to 99 seconds
- **Modes** Day and night timers, start and stop, selectable for each day of the week.

### ALARM OPERATION

- **Alarm Inputs** 4 inputs with polarity selection activated by contact closure or TTL/CMOS signal
- **Alarm Relays** 2 NO and NC contacts with shared common, 1.0A 24VDC (resistive)
- **Alarm Outputs** One output per camera, TTL/CMOS Active high or low selection

### ALARM DISPLAYS

- **Associated Alarm** Screens up to 4 cameras
- **Alarm Dwell Times** 1 to 99 seconds
- **Alarm Hold Time** 1 to 99 seconds
- **Alarm Buzzer** On/Off

### SCREEN DISPLAY OPTIONS

- **Camera Title** 24 Characters
- **Time and Date** US, Asian, European 12/24 hour formats
- **Screen Indicators** Alarm, Motion, Video Loss, Zoom mode, Freeze mode, Sequence mode, camera number, Setup menu

### OTHER FEATURES

- **Password Protection** 1 supervisor, 4 users
- **Daylight Savings Time** Selectable
- **Sequence Dwell Time** 1 to 99 seconds, OFF
- **Time Lapse VCR Setup Delay** 2 hr. real time to 960 hr. time lapse
- **Unit ID Selection** 1 to 255
- **Camera Number offset** 1 to 256
- **Language Selections** English, German, French, Italian, Spanish
- **Upgradable Flash Memory**
- **RS232 Control** 1200 – 19200 baud RX/TX
- **RS485 Control** 1200 – 19200 baud RX/TX
- **Mouse** Two-button PS2 mouse

### POWER

- **Power Requirements** 12VDC, 2.5 Amps
- **Power Adapter** 120/230 VAC Universal Adapter

### MECHANICAL

- **Unit Size** 17" W x 1.73" H x 12.2" D (432mm x 44mm x 310mm)
- **Unit Weight** 5.3 lbs (2.4 Kgs)
- **Shipping Weight** 9.5 lbs (4.3 Kgs)

### OPERATING ENVIRONMENT

- **Ambient Temperature** 32 to 95° F (0 C to 35° C)
- **Ambient Humidity** 10 to 90% non-condensing

## 4-Camera Monochrome Multiplexer

### ADEMCO Video Systems Support Center

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## ORDERING:

Part No.	Description
AXMD4E	e-Series 4 Camera Monochrome Multiplexer, with Main Monitor and Single Spot Output
AXMD9E	e-Series 9 Camera Monochrome Multiplexer, with Main Monitor and Four Spot Outputs
AXMD16E	e-Series 16 Camera Monochrome Multiplexer, with Main Monitor and Four Spot Outputs
AXCD4E	e-Series 4 Camera Color Multiplexer, with Main Monitor and Single Spot Output
AXCD9E	e-Series 9 Camera Color Multiplexer, with Main Monitor and Four Spot Outputs
AXCD16E	e-Series 16 Camera Color Multiplexer, with Main Monitor and Four Spot Outputs