

# 16-Camera Monochrome Duplex Multiplexer

ADEMCO Video's AXMD16 Monochrome Duplex Multiplexer is highly versatile and can easily be configured to meet your specific installation requirements. Basic operation allows for recording up to 16 full screen "live" cameras on a VCR while simultaneously displaying cameras in a variety of multiple screen formats. Dual VCR mode allows you to record up to 16 "live" cameras on one VCR, while simultaneously processing and replaying video from a second VCR. "Live" and playback images can be displayed in a variety of multiple-picture screen formats while recording.

The AXMD16's advanced features bring powerful, integrated solutions to your security system. Features like video motion detection, time synchronization of multiple multiplexers, auto-synchronization of VCR to multiplexer, and enhanced picture processing provides unparalleled image quality and unsurpassed performance.

Easy to program features such as video motion detection, alarm detection, day/night settings for each camera, and documentation of alarm events make the AXMD16 your multiplexer of choice. Bi-directional RS232 means that the AXMD16 can be controlled remotely with a PC, ADEMCO Video's AXRC Remote Control Panel or the RapidView AKJX8 Dome/Multiplexer Controller. The high-performance AXMD16 . . . more power and performance in a cost-effective system solution.



**AXMD16**

## **FEATURES:**

### **16-Camera Monochrome Duplex Multiplexer With Video Alarm Detection**

- Duplex multiplexing allows for viewing multiple cameras while simultaneously recording on a VCR
- High quality, 730 x 464 digital pixel images, 8-bit, 256 shades of gray
- Sync-pulse for fast installation with VCRs that have a switch pulse output
- Activity detection records and displays more frames from cameras that "see" activity
- Set video motion alarm parameters including target placement, object size and shape, time of day, trigger sensitivity and alarm delay for each camera
- Individual video alarm outputs for each camera allow customized alarm response for specific security areas
- Bi-directional RS232 reduces equipment costs and expands system capabilities

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# AXMD16

## ADDITIONAL FEATURES

### Full Duplex Multiplexing

View and record functions are independent. All cameras are full-field recorded regardless of picture format option selected when pictures were recorded. Playback any camera full screen or select any display option to see the group of cameras you desire.

### Simple Multiple Camera Display and Playback Options

Full screen, sequential camera switching, PIP, 2 x 2, 3 x 3 or 4 x 4 picture formats. View only critical areas or see all locations at one time. Change the viewing and playback options to suit your needs on a minute-to-minute basis. Even zoom up to 2X any picture area for a closer look at suspicious activity.

### High-Resolution, Monochrome Display

730 x 464 pixels to the VCR, and up to 420 lines of resolution to the monitor (at -6DB). See live or recorded events in high resolution for detailed documentation, superior surveillance and easier identification.

### Integrated Alarm Detection and Reporting

Video motion detection responds to alarm-related motion. Users gain alarm protection and verification of critical events. Alarm-type video motion detection is built-in. Alarm reports, logs and counts are conveniently displayed on-screen. Operation is easy, seamless and integrated.

### User-Optimized Alarm Detection Per Camera

Alarm detection parameters include object location, size, shape, tracking delay and trigger sensitivity to suit each camera's unique viewing environment and security need. Programmable 16H x 12V detection grid with 192 detection points allows for superior alarm sensing.

### Automatic Day/Night Setting Per Camera

Each camera's detection setting can be set for day and night conditions. The AXMD16 will automatically change settings when time of day requires alarm sensing requirements to change.

### Software Management

Bi-directional RS232 communication allows software control of all multiplexer features. Use ADEMCO Video's RapidView AKJX8 Dome/Multiplexer Controller or a PC with third-party software management tools.

### Other Advanced Features

Remotely synchronize time on up to 255 multiplexers via software, and automatically set camera switch rate to your VCR - no address programming required. Advanced encoding technology allows multiplexer identification on VCR tape. Plus "multi-format decode" allows the AXMD16 to read many other manufacturer's duplex multiplexer tapes (consult our Applications Department for exact models and details.) No other multiplexer offers this degree of control and flexibility.

## TECHNICAL SPECIFICATIONS

### Operational

Video Standard . . . . . NTSC (525 lines, 60 fields/second)  
 Digital Memory . . . . . 730 x 464 pixels full screen to VCR;  
 8-bit luma, 256 shades of gray

### Motion Detection Parameters

Target Matrix . . . . . 16 horizontal x 12 vertical (192 total)  
 Sensitivity . . . . . 5 levels  
 Object Size . . . . . 81 combinations of width and height  
 Tracking Delay . . . . . 0 to 5 seconds

Alarm Duration . . . . . Programmable 2 to 999 seconds,  
 4 seconds default

### Motion Alarm Recording

Settings . . . . . Each video channel has independent  
 settings for day and night  
 Alarm Enable . . . . . On, Off or And (requires concurrent  
 contact closure)

Remote Control . . . . . Via Remote Control Panel daisy-chain  
 up to 16 multiplexers; via computer  
 software control up to 255 multiplexers

Software Management . . . . . Via third-party software

### Inputs/Outputs

Video Input . . . . . 16 looping, 1 V p-p, composite, individually  
 selectable 75 ohms or High-Z, BNC

Monitor Output . . . . . Two, 1 V p-p composite, 75 ohms, BNC

VCR Input/Output: Composite . . . . . One each, 1 V p-p, 75 ohms, BNC

VCR Input/Output: S-Video . . . . . One each, 1 V p-p S-Luma, 75 ohms,  
 S-Video and 0.286 V p-p chroma,  
 75 ohms, S-Video

Alarm Connector . . . . . DB37S (includes DB37P mating  
 connector)

Alarm Input . . . . . 16, programmable as normally open  
 or normally closed

Alarm Hold Input . . . . . +5 to +15 VDC or TTL Active High

Common Alarm Output . . . . . One, normally open or closed  
 contacts, 1.0A not to exceed 42VAC  
 or 60VDC, resistive only

Motion/Alarm Output . . . . . 16 Active High or Low TTL  
 compatible (one per camera)

Remote Control . . . . . RS232, RJ11 In and Out

Operating Power . . . . . Center positive, 12 VDC; 1.5A,  
 18 watts, 2.1mm pin jack, 120VAC,  
 60Hz Class 2 Power Supply (NEMA  
 5-15 wall plug-in style) supplied

### Mechanical

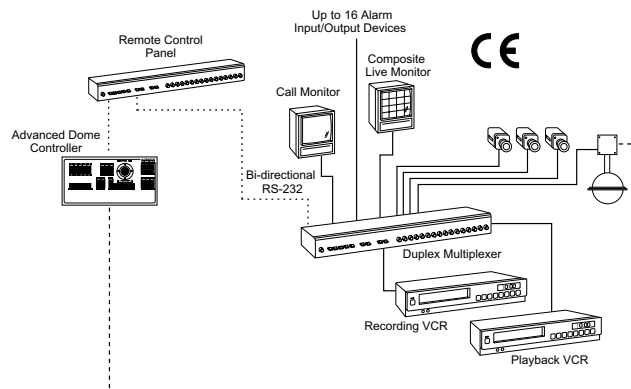
Unit Weight . . . . . 7.55 lbs. (3.4 kg.)

Shipping Weight . . . . . 12 lbs. (5.5 kg.)

Dimensions . . . . . 1.75 in. H x 17 in. W x 12.25 in. D  
 (44mm x 432mm x 311mm)

Ambient Temperature . . . . . 40° to 104° F (5° to 40° C)

## System Diagram



## ORDERING:

Part No.	Description
AXMD9	9-Camera Monochrome Duplex Multiplexer
AXMD16	16-Camera Monochrome Duplex Multiplexer
AXCD4	4-Camera Color Duplex Multiplexer
AXCD9	9-Camera Color Duplex Multiplexer
AXCD16	16-Camera Color Duplex Multiplexer

### Accessories

AKJX8	RapidView Dome/Multiplexer Controller
AXRC	Multiplexer Remote Control Panel
AXM1	Rack Mount Ears (19" EIA)

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### ADEMCO VIDEO

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