16-Camera Color Duplex Multiplexer

ADEMCO Video's AXCD16 Color 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 AXCD16'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 provide unparalleled image quality and unsurpassed performance.

AXCD16

Easy to program features such as video motion detection, alarm detection, day/night settings for each camera, and documentation of alarm events make the AXCD16 your multiplexer of choice. Bi-directional RS232 means that the AXCD16 can be controlled remotely with a PC, ADEMCO Video's AXRC Remote Control Panel or the RapidView AKJX8 Dome/Multiplexer Controller.

The high-performance AXCD16 . . . more power and performance in a cost-effective system solution.

FEATURES:

16-Camera Color 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 with 24-bit/16 million color palette

- 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

- Auto Detect VCR speed

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AXCD16

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, True-to-Life Color 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 and true-to-life color 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 AXCD16 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 AXCD16 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; 24-bit chroma, 16,000,000 colors on palette
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
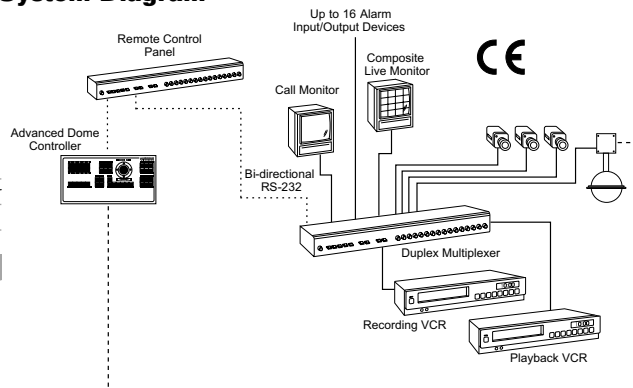
Inputs/Outputs

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. (5.4 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)

16-Camera Color Duplex Multiplexer

System Diagram

ORDERING:

Part No.	Description
AXMD4	4-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

Compatible Controllers

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

L/AXCD16/D Rev. 3/02

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