

A-ADRP4E, A-ADRP9E and A-ADRP16E Multi-Channel Triplex Digital Video Recorders



Product Summary

The ADT multi-channel digital video recorder series are high-quality multi-channel digital video recorders (DVRs) based on an embedded Real-time Operating System (RTOS). The DVRs are designed to replace both the multiplexer and or Observation system and VCR used in typical CCTV installations. The recorders are a cost effective solution for eliminating VCR maintenance and tape management (tape storage) issues and are easy to install by the combination of the multiplexer and digital recorder in one package.

The recorders provide exceptional picture quality in live and playback modes and offer remote monitoring, remote search and remote configuration using the supplied Remote Administration System software.

A User-friendly Graphical User Interface (GUI) and an intuitive menu system allow operation similar to a VCR using familiar front panels controls. For playback the DVRs support two search modes; calendar and event. The calendar search mode enables specific date and time search with a visual recording status table. Event search provides a query to pinpoint specific periods of time and types of events for quick retrieval of recorded images such alarm-in, motion detection, and video loss events. Pre-event video capture may be programmed for each event.

The core technologies used in the ADT recorders result in a powerful operating system and increased efficiency in the hard-drive capacity. The advanced

compression engine allows for smaller file data sizes without significant picture quality distortion and makes it possible to store recorded images for longer periods of time.

The Digital Recorders come with a new advanced archiving system using a compressed file format with executable "player" software saved with each image file. This allows for the transfer of Chain Finger Encryption (CFE) with each image file. With the addition of a built-in CD-RW or external USB or SCSI drive the unit can archive video fast and efficiently.

Built-in IP addressable networking capabilities as well as an internal modem enables remote system management via a broadband connection or standard telephone line.

Observation System Operation

The recorders provide seamless integration for existing ADT branded observation systems. The recorders provide similar features to an observation system, such as two-way communication. The recorders provide a complete interface (power, audio-in, video-in, alarm) for the ADT branded observation system cameras and works with the two-way audio camera and door controller/action box accessories in the ADT ViewPro™ product line. These features provide the series the ability to operate with any standard CCTV monitor and still possess all the features of an observation system.

Features

- 4, 9, or 16-channel video, single-channel audio digital video recorder
- 60 ips duplex operation
- Works with ADT observation systems and BNC cameras
- BNC and S-VHS video monitor output for high quality images
- Additional spot monitor output for public view monitor
- Simultaneous recording, playback, archiving and remote transmission
- Programmable record options (schedule, record rate, image quality) for each video input
- Time-lapse, event-driven and pre-event recording options
- Calendar, event and time and date search modes
- Menu driven backup features allow for archiving images to an internal CD-RW or external SCSI or USB ports
- Clip n' Copy archiving using compressed video image files allows for fast and efficient image transfer and portability
- Archived video is easily played back using executable "player" software program
- Remote access via built-in IP connection or internal modem
- PTZ control via RS485
- Programmable Video Motion Detection (VMD)
- Multiple display formats (single-view, 2x2, 3x3, 4x4, PIP)
- Printer port for local image printing
- Internal microphone, speaker, and volume control for observation system use

Ordering Guide

SCN#	Item
A-ADRP4E-120	4-Channel Digital Video Recorder w/CDRW, 120 GB
A-ADRP9E-240	9-Channel Digital Video Recorder w/CDRW, 240 GB
A-ADRP9E-500	9-Channel Digital Video Recorder w/CDRW, 500 GB
A-ADRP16E-320	16-Channel Digital Video Recorder w/CDRW, 320 GB

Specifications

Hard-Drive Sizes

ADRP4E-120: 120 GB
 ADRP9E-240: 240 GB
 ADRP9E-500: 500 GB
 ADRP16E-320: 320 GB

Image Storage Time

see attached Storage Duration Table

CDRW

Record 48x Rewrite 24x

Video Input

ADRP4E-120: 4-RJ-11 Composite video inputs
 4-BNC looping inputs, auto terminating
 ADRP9E-xxx: 9-RJ-11 Composite video inputs
 9-BNC looping inputs, auto terminating
 ADRP16E-320: 16-RJ-11 Composite video inputs
 16-BNC looping inputs, auto terminating

Monitor Output

BNC Composite: 1 output
 SVHS: 1 Y/C output

Video Resolution

720 x 480 NTSC

Playback/Record

60/60 images/second (NTSC)

Record Rate

60 images/second (triplex operation)

Alarm Inputs/Outputs

ADRP4E-120: 4/4
 ADRP9E-xxx: 9/4
 ADRP16E-320: 16/4

PTZ Control

1 - RS485

Network Interface

Internal Modem
 RJ-45 Network interface card 10/100 Base
 Ethernet

Audio Inputs/Output

16 - camera input (Select One)
 1 - line
 1 - internal mic
 1 - internal speaker

Printer Port

DB-9 (P) Connector

USB Port

1 - type 1 Version 1.1

Dimensions

(W x H x D) 16.9" x 3.5" x 13.8"

Weight

20.9 lbs (9.45 kg)

Operating Temp

41°F ~ 104°F
 (5°C ~ 40°C)

Power requirements

100 - 240 VAC, 2/1 A, 60/50 Hz Adapter
 24 VDC, 5 A

Color Cameras

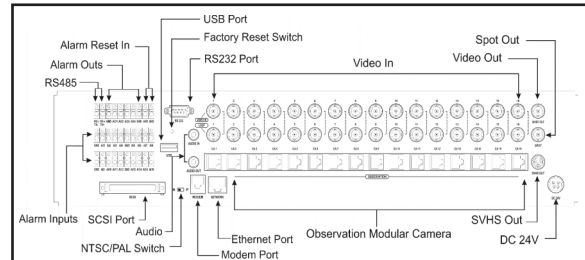
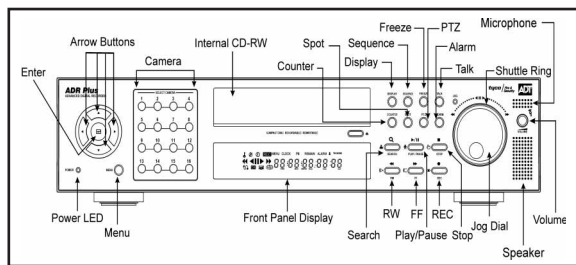
A-C4CPS	Color, compact camera, 4 and 8mm lens, speaker
A-CC3MH	Color, high res camera, 3.3-8mm VF lens
A-CC3FD	Color, high res, fixed dome camera, 4-8mm VF lens
A-CC3VD	Color, high-res, vandal housing, fixed dome, dc auto iris, 4-8mm VF lens
A-DC4C	Color Video Door Cam, 2-way Intercom
A-DS1C	Color, 5"-dia, Pan/Tilt dome camera
A-S35CNV	Color Day/ Night IR bullet camera, 6mm lens
A-S230CWX	Color bullet camera, 3.6mm lens, 380TVL, 23mm diameter
A-CK550HB	Color Outdoor high-res camera & housing, 5-60mm vari-focal, auto iris lens, heater/ blower, power supply and cable

B/W Cameras

A-C3BPS	B&W, compact camera, 4 and 8mm lens, speaker
A-CB3MH	B&W, high res camera, 3.3-8mm VF lens
A-CB3FD	B&W, high res, fixed dome camera, 4-8mm VF lens
A-CB3VD	B&W, high-res, vandal housing, fixed dome, dc auto iris, 4-8mm VF lens
A-DS1B	B&W, 5"-dia, Pan/Tilt dome camera
A-S190SWX	B&W bullet camera, 3.6mm lens, 420 TVL
A-BK550HB	B&W Outdoor high-res camera & housing, 5-60mm vari-focal, auto iris lens, heater/ blower, power supply and cable

Accessories

A-A2POS	3' Cash Register to camera interface adapter
A-MB1412E	14" B/W Monitor, CRT, 800L, no audio
A-MC1574FN	15" Color Monitor, flat-CRT, 500L, 2-ch A/V, SHVS
A-MC2174FN	21" Color Monitor, flat-CRT, 500L, 2-ch A/V, SHVS
A-M170BP	17" LCD Color Monitor 1280x1024, plastic, cctv/pc, 250nit
M150C	15" LCD Color Monitor 1024x768, metal, cctv/pc, 250nit
M170C	17" LCD Color Monitor 1280x1024, metal, cctv/pc, 250nit
M190C	19" LCD Color Monitor 1280x1024, metal, cctv/pc, 250nit
A-ADRLB	Lockbox, ADR DVR
A-AB50C	Cable, 50', BNC to BNC, spot monitor



Storage Duration

The following tables illustrate typical recording durations for a single video input, with continuous recording for the ADT series recorder with a 120, 240, 320, and a 500GB HDD.

ADRP4E-120	Recording Image Compression			
	Low 2KB	Std 3KB	High 7KB	V-High 18KB
ips	days	days	days	days
60	11.6	7.7	3.3	1.3
30	23.1	15.4	6.6	2.6
20	34.7	23.1	9.9	3.9
10	69.4	46.3	19.8	7.7
1	694.4	463.0	198.4	77.2

ADRP9E-240	Recording Image Compression			
	Low 2KB	Std 3KB	High 7KB	V-High 18KB
ips	days	days	days	days
60	23.1	15.4	6.6	2.6
30	46.3	30.9	13.2	5.1
20	69.4	46.3	19.8	7.7
10	138.9	92.6	39.7	15.4
1	1,388.9	925.9	396.8	154.3

ADRP16E-320	Recording Image Compression			
	Low 2KB	Std 3KB	High 7KB	V-High 18KB
ips	days	days	days	days
60	30.9	20.6	8.8	3.4
30	61.7	41.2	17.6	6.9
20	92.6	61.7	26.5	10.3
10	185.2	123.5	52.9	20.6
1	1851.9	1234.6	529.1	205.8

*For 500GB: multiply storage days by 2.1