

240-ips Multi-Channel Triplex Digital Video Recorders A-XDP8E; A-XDP16E



Product Summary

The next step in the evolution of embedded digital video records is the ADT XDR Pro2 series of recorders. The XDR Pro 2 series recorders are highly stable 8- and 16-channel digital video recorders based on an embedded RTOS (Real-Time OS) operating system with an internal watchdog timer and auto restart upon power loss. The units are designed for real-time Full Duplex CIF 240 ips display and recording capabilities for eight and sixteen channel video and four audio inputs, with powerful alarm handling with one-to-one action for each event. The units record up to 240 images per second and offer selectable record resolution (horizontal 704 or 352-pixels), high image quality and multiple archiving options using the internal DVD-RW drive, an external USB hard disk drive, CD-RW, DVD RW drive or flash drive. The recorders are a cost effective solution for providing quality video security recording and storage.

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 Plus software (RAS+), on a customer supplied computer.

The Digital Recorders come with an 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 an external USB HDD or SCSI drive the unit can archive video fast and efficiently. The Clip-Copy feature allows a video segment to be recorded for archiving and portability while connected remotely or by using the built in DVD-RW locally during a search operation.

A User-friendly Graphical User Interface (GUI) and an intuitive menu system allow quick and easy operation using the familiar front panel controls, infrared remote control or USB mouse. 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 as external alarm-in, motion detection, text in and video loss events. Pre-event may be programmed to capture video from 5 seconds to 30 minutes before the event occurrence. Each camera can be individually programmed for pre-event with quality and ips settings different from normal settings.

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.

Built-in IP addressable networking capabilities enable remote system management via a broadband connection or standard telephone line when used with an optional external modem.

Remote broadband connection is available with either static-IP, dynamic-IP using an enhanced DDNS system, or web-browser access using Internet Explorer.

The optional CONKIT9C or CONKIT16C camera interface provides complete (power, audio-in, video-in, alarm) connectivity for the ADT branded observation cameras.

Features

- 8- and 16-channel looping BNC inputs
- 4-Channel audio recording and 1-channel audio playback
- 240-ips (Images per Second) triplex operation
- Built-in Web Server allows Remote Connection through a Web Browser e.g. Internet Explorer
- Live and Recorded Audio via Broadband Remote Connection
- 2X ~ 4X Digital Zoom
- Selectable (352x240) or (704x240) recording resolutions
- Built-in CD-RW or DVD-RW, three USB 2.0 I/O ports and Ultra-Wide SCSI interface
- Concurrent BNC / S-VHS / VGA video monitor outputs for high quality images
- 4-spot monitor outputs with selectable camera inputs and sequencing dwell
- Spot number 1 mimics main monitor output
- Hand-Held IR Remote control and USB mouse included
- Powerful search modes by calendar, time-date, event, motion, museum, text
- Programmable Video Motion Detection (VMD) per channel (<1sec response)
- Intuitive Graphical User Interface (GUI) menu system
- Multiple recording modes (Time-Lapse, Alarm, Pre-event, Panic and Continuous)
- Menu driven back-up features allow for archiving and mirroring images to an external SCSI or USB port.
- Clip-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 - recorded with each clip-copy file
- Remote access via static or dynamic IP connection or optional external modem
- PTZ control via RS485, selectable protocols for all major brands
- Multiple display formats (full screen, 2x2, 3x3, 4x4, PIP)
- Programmable record options (schedule, record rate, image quality) for each video input

Ordering Guide

SCN#	Item
A-XDP8E-250	8-Channel Digital Video Recorder, DVD-RW, 250GB
A-XDP8E-500	8-Channel Digital Video Recorder, DVD-RW, 500GB
A-XDP16E-500	16-Channel Digital Video Recorder, DVD-RW, 500GB
A-XDP16E-15TB	16-Channel Digital Video Recorder, DVD-RW, 1.5TB
A-XDP16E-3TB	16-Channel Digital Video Recorder, DVD-RW, 3.0TB



Specifications

Video Input

XDP8E 8-BNC looping inputs, auto terminating
 XDP16E 16-BNC looping inputs, auto terminating

Main Monitor Output

BNC Composite: 1 output
 VGA: 1 output

Spot Monitor

BNC Composite: 1 output

Display Resolution

720 x 480 NTSC

Playback/Record

240/240 (CIF) 120/120 (2CIF) ips
 guaranteed full-duplex

Alarm Inputs

XDP8E 8 TTL, programmable as
 NC or NO (push terminal)

XDP16E 16 TTL, programmable as
 NC or NO (push terminal)

Alarm Outputs

XDP8E 2 Relay Out, terminal block
 XDP16E

Alarm Reset

1 TTL w/ground, terminal block

PTZ Control

1 – RS485 Serial connection
 (two wire half duplex)

Network Interface

RS232C Serial Port I/O Control or
 (Optional External Modem)
 RJ-45 Network Interface card
 10/100 Base T Ethernet

Audio Inputs/Outputs

4/1 – line level (RCA connectors)

USB Port

3 – type 2 Version 2.0 (2 on front &
 1 on back)

Ultra Wide SCSI Port

High density female 68 pin connector

Dimensions (W x H x D)

16.9" x 3.5" x 15.9"
 (430mm x 89mm x 405mm)
 (Includes jog/shuttle extension and
 connectors on back plate)

Weight

22.5 lbs (10.2kg)

Shipping Weight

27.6 lbs (12.5kg)

Shipping Dimensions

21.3" x 11.4" x 23.2"
 (540mm x 290mm x 590mm)

Operating Temp

41°F ~ 104°F (5°C ~ 40°C)

Operating Humidity

0% - 90% (non condensing)

Power Requirements

100 – 240 VAC, 3A, 60/50 Hz, 150 watts

Specifications subject to change without notice.

Cameras

Part No.	Description
A-CC540TDN	Camera, Color, 540 TVL, OSD, 3.3-8mm VF, BNC / 12VDC / 24VAC / RJ11
A-CF540	Camera, Color, 540 TVL, 4-9mm VF, fixed dome, BNC / 12VDC / 24VAC / RJ11
A-CV540	Camera, Color, 540 TVL, vandal, 4-9mm VF, DC AI, BNC / 12VDC / 24VAC / RJ11
S35CH	Camera, Color, outdoor bullet, 6mm, 520TVL, 6 LEDs, 37mm dia
S35CHPS	Camera, Color, outdoor bullet, 6mm, 520TVL, 6 LEDs, 37mm dia, 12VDC ps.
S35CHPS36	Camera, Color, outdoor bullet, 3.6mm, 520TVL, 6 LEDs, 37mm dia, 12VDC ps
A-S230CWVX	Camera, Color, bullet, 3.6mm, 380TVL, 23mm dia
S230CWPS	Camera, Color, bullet, 3.6mm, 380TVL, 23mm dia, 12VDC ps
SDN655	Camera, Color, outdoor bullet, 3.8-9.5mm VF AI, 520TVL, 18 LEDs, 60mm dia
SDN655PS	Camera, Color, outdoor bullet, 3.8-9.5mm VF AI, 520TVL, 18 LEDs, 60mm dia, 12VDC ps
A-CK540HB	Camera, Color, Outdoor Hsg, 5-60mm VF AI lens, mt, H/B, pwr sup, cable
CC48HS37	Camera, Color, Covert, Height-Strip Housing, 525TVL D/N, 3.7mm, RJ-11
FS100H	Camera, Color, Covert, Height-Strip Housing, 525TVL D/N, 3.7mm, 12 VDC ps inc
FS150H	Camera, Color, Covert, Mini-Strip Housing, 525TVL D/N, 3.7mm, 12 VDC ps inc
A-DS1B	Camera, B/W Dome, 1/3" motorized, 360 deg pan

Accessories

Part No.	Description
CONKIT4C	Interface Box, 4-channel Video/Audio/Alarm, RJ11, BNC, RCA, 15VDC (includes video connection cables)
CONKIT9C	Interface Box, 9-channel Video/Audio/Alarm, RJ11, BNC, RCA, 15VDC (includes video connection cables)
CONKIT16C	Interface Box, 16-channel Video/Audio/Alarm, RJ11, BNC, RCA, 15VDC (includes video connection cables)
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
M170CP2	17" LCD Color Monitor 1280x1024, narrow bezel, plastic, cctv/pc, 300nit, desk stand inc
M190CP2	19" LCD Color Monitor 1280x1024, narrow bezel, plastic, cctv/pc, 300nit, desk stand inc
A-XDLBW2	Lockbox, DVR
A-AB50C	Cable, 50', BNC to BNC, spot monitor
BB-6	Cable, 6' BNC to BNC, RG59
BB-3	Cable, 3' BNC to BNC, RG59
ACB-6	Cable, 6' RCA to RCA, audio

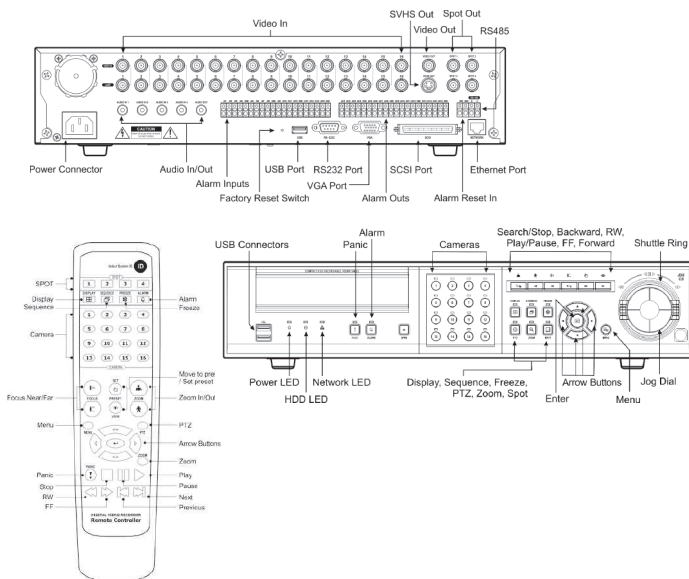
Storage Duration

The following tables illustrate typical recording duration for the 336 x 224 record resolution with a single video input, with continuous video recording and no audio for the recorder with a 500-GB hard disk drive. The actual storage duration will vary depending on the number of cameras recorded, the image quality selected, the recording speed, recording schedule, motion content of the images and the number of stored events.

Recording Time (based on 500GB)

Image Rec Compression Rate	Record Resolution & Quality Mode (1 CIF) 336 x 224							
	LOW 2 KB		STANDARD 4 KB		HIGH 8 KB		V-HIGH 12 KB	
(sec/img) (img/sec)	Hours	Days	Hours	Days	Hours	Days	Hours	Days
0.01 120	579	24.1	289	12.1	145	6.0	96	4.0
0.02 60	1,157	48.2	579	24.1	289	12.1	193	8.0
0.03 30	2,315	96.5	1,157	48.2	579	24.1	386	16.1
0.07 15	4,630	192.9	2,315	96.5	1,157	48.2	772	32.2
0.13 7.5	9,259	385.8	4,630	192.9	2,315	96.5	1,543	64.3
0.20 5	13,889	578.7	6,944	289.4	3,472	144.7	2,315	96.5
1 1	69,444	2,893.5	34,722	1,446.8	17,361	723.4	11,574	482.3
30 0.03	2,314,815	96,450.6	1,157,407	48,225.3	578,704	24,112.7	385,802	16,075.1

* Storage is for one input, divide by number of cameras used



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