

A-ADT4HS Series 4-Channel Digital Video Recorder



Product Summary

The A-ADT4HS is a highly stable four-channel digital video recorder using a H.264 codec and based on an embedded RTOS (Real Time Operating System) with an internal watchdog timer and auto restart upon power loss. The unit is designed for real-time display and recording of four video inputs, with powerful alarm handling action for each event.

The A-ADT4HS features H.264 recording compression which allows maximum use of Hard Disk Drive space. The A-ADT4HS records up to 120 images per second at standard resolution (30-ips per channel), 60-ips when set to high resolution, and 30-ips when set to very high resolution.

System Controls

The A-ADT4HS includes an IR Remote Control and PS2 mouse (rear connection) permitting operation and programming of all menus.

S.M.A.R.T Monitoring

The A-ADT4HS utilizes advanced Self-Monitoring, Analysis and Reporting Technology (SMART) to monitor the internal IDE HDD. This technology senses potential fault conditions within the DVR and will report the information on-screen.

Graphical User Interface (GUI)

The A-ADT4HS features a graphical user interface, which is easily navigated using the front panel controls, mouse or remote control. All system programming and control is accomplished using on-screen pull-down menus and easy to follow dialog boxes.

Remote System Operation

The A-ADT4HS supports remote access via TCP/IP supported networks. Remote access and control is available using IE browser v6.0 and above through the built-in web server WebGuard. The client-based remote software (Remote Administration Software-RASplus) included with the unit allows programming, control, live viewing and image search from the remote location. Multiple A-ADT4HS units may be addressed and remotely accessed simultaneously using

only one copy of the RASplus program. RASplus provides reporting functions including a live system status; event and system log searches, and allows programming of the remote unit. Using RASplus provides remote monitoring of video images from single or multiple sites. The images may be viewed full-screen, 2x2, 3x3 or a variety of multi-segment displays up to 64 images on-screen simultaneously. The Search function provides a duplex remote search and playback of the recorded images and also provides image zoom, interpolation, file save and file print.

The local A-ADT4HS can send exception event and alarm notifications to a remote monitoring location running the RASplus software to alert the remote station when an alarm or triggered event has occurred (TCP/IP networks only), or send an Email using a SMTP server.

Event Archiving

The A-ADT4HS recorder features 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 Fingerprint Encryption (CFE) with each image file. The A-ADT4HS recorder offers a front panel USB port for event archive.

Connector Interface

The A-ADT4HS DVR offers a standard BNC and VGA output connections permitting a wide range of CRT or LCD video monitor options. The unit features loop through BNC video connections. The internal network card (RJ-45) permits connection to IP supported networks. The RS-485 connection terminal allows the DVR to control Pan-Tilt-Zoom cameras and supports more than forty-five different protocols.

Features

- 4-Channel Digital Video Recorder
- Built-in web server allows remote connection through a web browser e.g. Internet Explorer v6.0 or higher
- Client Software provided for secure remote administration (RASplus)
- 120-ips – CIF resolution
60-ips – 2CIF resolution
30-ips – 4CIF resolution
- IR Remote Control and PS2 Mouse (included)
- 2 USB Ports (1 USB 2.0-front panel; 1 PS2 Mouse port-rear panel)
- Quad, Full-Screen and Sequential Camera Views with built-in 2x zoom
- Simultaneous Composite and VGA Monitor Outputs
- Remote Monitoring using TCP/IP
- User Friendly Graphical User Interface (GUI) with PTZ control
- Time-Lapse, Event and Pre-Event Recording Selectable by Camera
- Variable Recording Speed / Image Quality by Camera
- Programmable "Event-Action"
- Built-in Motion Detection, Alarm-in and Video-loss Alarm Inputs
- Powerful Search Function for Calendar, Date/Time, Event
- Chained Fingerprint Encryption
- Callback (TCP/IP), or SMTP email
- Overwrite or Stop HDD Recording Options
- Multi-Language Menus

Ordering Guide

SCN#	Item
A-ADT4HS-500	4-ch DVR, H.264, 120-ips, IR, mouse, USB, 500GB
A-ADT4HS-1TB	4-ch DVR, H.264, 120-ips, IR, mouse, USB, 1TB



Specifications

VIDEO

Signal Format	NTSC or PAL (auto detect)
Video Input	Composite: 4 looping inputs
Monitor Outputs	Composite: One (BNC), 1 Vp-p, 75 Ohms Analog RGB: One VGA
Display Resolution	720x480 (NTSC)
Record Resolution	Standard: 352 x 240 (NTSC) High: 704 x 240 (NTSC) Very High: 704 x 480 (NTSC)
Playback/Record Speed	120-ips (standard resolution) 60-ips (high resolution) 30-ips (very high resolution)
(images per second)	H.264
Codec	

INPUTS/OUTPUTS

Alarm Input	4 TTL, NC/NO programmable, 4.3V threshold
Alarm Output	1 relay out, terminal block, NC&NO, 0.5A @ 125VAC, 1A @ 30VDC
Alarm Reset Input	1 TTL, terminal block
Internal Buzzer	80db at 10cm
Network Connectivity	10/100 Base Ethernet

CONNECTORS

Video Input	Composite: 4 BNC
Video Loop	Composite: 4 BNC
Monitor Output	Composite: 1 BNC Simultaneous CVBS – VGA (15 pin D)
Alarms	Terminal block
Alarm Reset In	Terminal block
Ethernet Port	RJ-45
RS-485 Serial Port	Terminal block
USB Port	1 front panel 2.0; 1-mouse port PS2
IR Port	1 remote control

STORAGE

Primary Storage	1 HDD
Backup Storage	USB (Flash Drive)

GENERAL

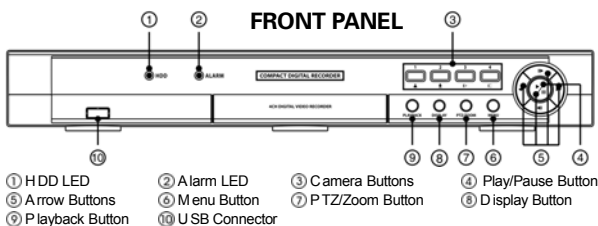
Dimensions (W x H x D)	13.38" x 1.81" x 12.20" (340mm x 46mm x 310mm)
Unit Weight	6.6 lbs. (3.0kg)
Shipping Weight	9.9 lbs. (4.5kg)
Shipping Dimensions (W x H x D)	17.3" x 5.6" x 16.1" (440mm x 143mm x 410mm)
Operating Temperature	41°F to 104°F (5°C to 40°C)
Operating Humidity	0% to 90%
Power	100–240 VAC, 0.8-0.4 A, 50/60Hz
Power Consumption	Max 25W

APPROVAL

*UL, CE, FCC

*CAUTION: Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions. This equipment is indoor use and all the communication wiring are limited to inside of the building.

Specifications are subject to change without notice.



*Select camera buttons (1-4) to view individual cameras full screens.

Recommended System Components

Part Number	Description
ML757	17" LCD VGA-only, 1280x1024, black plastic case
ML950F	19" LCD, VGA, BNC, DVI, Audio, 1280x1024, black plastic case
ML970W	19" Wide LCD VGA-only, 1440x900, black plastic case
ML2200W	22" Wide LCD Monitor 1680x1050, black plastic case
A-M170CP2D	17" LCD Monitor 1280x1024, narrow bezel, plastic, cctv/pc
A-M190CP2D	19" LCD Monitor 1280x1024, narrow bezel, plastic, cctv/pc
M170CP2	17" LCD Monitor 1280x1024, narrow bezel, plastic, cctv/pc
M190CP2	19" LCD Monitor 1280x1024, narrow bezel, plastic, cctv/pc
CONKIT4C	Interface Box, 4-channel Video/Audio/Alarm, RJ11, BNC, RCA, 15VDC (includes video connection cables)
A-XDLBW2	Lockbox, DVR
BB-3	Cable, 3' BNC to BNC, RG59
BB-6	Cable, 6' BNC to BNC, RG59

Storage Duration

The A-ADT4HS records up to 120 images per second at standard resolution (30-ips per channel) and the tables illustrate a typical recording duration for CIF, 2CIF and 4CIF record resolutions with a single video input, with continuous video recording for the recorder 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.

500-GB HDD

CIF (ips)	Basic Days	Standard Days	High Days	Very High Days
30	96.5	48.2	32.2	24.1
20	144.7	72.3	48.2	36.2
15	192.9	96.5	64.3	48.2
5	578.7	289.4	192.9	144.7
1	2893.5	1446.8	964.5	723.4

500-GB HDD

2CIF (ips)	Basic Days	Standard Days	High Days	Very High Days
20	72.3	36.2	24.1	18.1
15	96.5	48.2	32.2	24.1
10	144.7	72.3	48.2	36.2
5	289.4	144.7	96.5	72.3
1	1446.8	723.4	482.3	361.7

500-GB HDD

4CIF (ips)	Basic Days	Standard Days	High Days	Very High Days
20	36.2	18.1	12.1	9
10	72.36	36.2	24.1	18.1
5	144.7	72.3	48.2	36.2
1	723.4	361.7	241.1	180.8

Storage is for one input; divide by number of cameras used.

REAR PANEL

