

ADH Series H.264 Economical DVR



4/9/16CH Digital Video/Audio Recorder With Optional VGA Output and DVD Writer

Main Features:

O.S: Embedded Linux 2.6

16/9-CH H.264 DVR with multiple operation – record, live, playback, backup, control, & remote access

H.264 Baseline Profile video compression/decompression with configurable quality

Record capabilities:

4CH: Full-D1: up to 30/25IPS, Half-D1: up to 60/50IPS, CIF: up to 120/100IPS

9/16CH: Full-D1: up to 60/50IPS, Half-D1: up to 120/100IPS, CIF: up to 240/200IPS

Playback capabilities:

4CH: Full-D1: up to 30/25IPS, Half-D1: up to 60/50IPS, CIF: up to 120/100IPS

9/16CH: Full-D1: up to 60/50IPS, Half-D1: up to 120/100IPS, CIF: up to 240/200IPS

Realtime live display, 30 (NTSC) / 25 (PAL) IPS, for each channel

Bi-directional audio capabilities

Smart search & playback

9/16CH: Audio in * 4 / audio out * 1, 4CH: Audio in * 2 / audio out * 2 (optional)

9/16CH: Up to 3 SATA HDDs, or 2 SATA HDDs and 1 DVD writer

4CH: Up to 2 SATA HDDs, or 1 SATA HDD and 1 DVD writer

Alarm in * 16 / alarm out * 2 (optional)

Ethernet * 1 for remote access, including web access, e-mail alarm notification, FTP video/audio file storage, and software upgrade

1 I.E. software for multiple DVRs

Remote access through mobile phone or PDA

RS-232 and RS-485 for PTZ, keyboard control, POS, and GPS support

USB * 1 for video/audio backup to versatile USB2.0 storage devices

Internal DVD Models: Video/audio backup to internal DVD, including DVD+RW, DVD+R, and DVD-R

eSATA connector for HDD extension (9/16CH)

Keypad, I/R remote control, & mouse operation

Watermark

Multi-lingual support for setup and display

Open system architecture for ease of access via network, RS-485 keyboard

SPECIFICATION

Video	Format	NTSC/EIA or PAL/CCIR
	Input	ADH216E: 16CH , BNC, 1Vp-p/75ohm ADH209E: 9CH , BNC, 1Vp-p/75ohm ADH104E: 4CH , BNC, 1Vp-p/75ohm
	Main monitor	BNC x 1 , S-video x 1 (option), 1Vp-p/75ohm (Optional VGA D-sub 15pin connector)
	Call monitor	BNC x 1 , 1Vp-p/75ohm
	Loss detection	Yes
	Motion detection	Yes, with configurable detection area & sensitivity
Audio	Input	9/16CH: 4 RCA-jack connectors, 4CH: 2 RCA-jack connectors
	Output	9/16CH: 1 RCA-jack connectors, 4CH: 2 RCA-jack connectors
Record	Compression	H.264 Baseline Profile
	Speed (IPS) & Resolution	9/16CH: NTSC/PAL 720*480/720*576: 60/50IPS, 720*240/720*288: 120/100IPS, 360*240/360*288: 240/200IPS 4CH: NTSC/PAL 720*480/720*576: 30/25IPS, 720*240/720*288: 60/50IPS, 360*240/360*288: 120/100IPS
	Watermark	Yes
	Mode	Manual/Schedule/Alarm/Motion
	Pre-record time	9/16CH: 0 – 60 seconds, 4CH: 0—10 seconds
	Post-record time	0 - 60 minutes
Display	Resolution	NTSC – 720*480, PAL – 720*576
	Split windows	ADH216E: 1/4/7/9/10/13/16 ADH209E: 1/4/7/9 ADH104E: 1/4
	Frame rate	Up to 30 (NTSC) / 25 (PAL) IPS per display window
	Digital Zoom	X2, x4
	Sequential switch	User adjustable
Playback	Speed (IPS) & Resolution	9/16CH: NTSC/PAL 720*480/720*576: 60/50IPS, 720*240/720*288: 120/100IPS, 360*240/360*288: 240/200IPS 4CH: NTSC/PAL 720*480/720*576: 30/25IPS, 720*240/720*288: 60/50IPS, 360*240/360*288: 120/100IPS
	Search	Smart Search , Date/time, Camera, Alarm, & Motion
Storage	HDD	9/16CH: 2 sets of 3.5" SATA HDDs, up to 2TB per HDD, optional 1 set of 3.5" SATA HDD (or DVD writer) 4CH: 1 set of 3.5" SATA HDDs, up to 1TB per HDD, optional 1 set of 3.5" SATA HDD (or DVD writer) Failure detection & privacy law supported
	HDD Extension	1 optional eSATA connector (9/16CH only)
	Partitions:	Configurable alarm partitions size, Configurable auto-overwrite or not
	Backup	1 USB 2.0 port for USB 2.0 disk drives, DVD+RW, DVD+R, DVD-R, card readers, HDD, etc. DVD models: DVD+RW, DVD+R, DVD-R Self playback for backup files
Alarm	Input	16 (9/16CH) or 4 (4CH) contact or TTL/CMOS signal, polarity selectable
	Output	1 Normally Open, 1 Normally Closed relay output
	Buzzer	Yes
	Triggered by	Sensor input, Video loss, & Motion
	Event log	Yes
Network	Ethernet	1 RJ-45 10/100BaseT Ethernet connector
	Web	Remote setup, monitoring, backup & alarm notification, remote software upgrade, 1 I.E for multiple DVRs (64 windows) Configurable HTTP/Control/Data port
	E-mail	Alarm notification to stationary or mobile devices
	Remote Station	PC, mobile phone or PDA
	Remote Users	Up to 8 (9/16CH) or 6 (4CH) users simultaneously
	FTP	Alarm video/audio file storage
	Audio	Bi-directional
	Bandwidth	TCP/IP type dynamic sliding window control
Protocol	TCP/IP, HTTP, PPPoE, DHCP, DDNS, FTP, TSP	

SPECIFICATION

Control/POS/GPS	I/R	1 I/R remote controller
	RS-232	1 D-type female connector for PTZ, POS, GPS
	RS-485	2-pin for keyboard/PTZ control (option)
Setup	Local	On screen setup via keypad, I/R remote controller, and/or RS-485 keyboard
	Remote	Setup & upload via Windows application software
	Multi-lingual	Yes
Reliability	System recovery	Auto power on after power loss recovery
	Watch Dog Timer	Yes
	Timer	Built-in real time clock
	Security	Multi-level password (3 levels, up to 18 accounts) protection with authentication key for remote access
Weights & Measures	Dimension & Weight	430(W) x 330(D) x 66(H)mm, 4.0 KG (without HDD)
Power	Source	+12VDC
	Consumption	70W Max. (with 3HDDs) or 45W Max. (with 2HDDs)
Operating Temperature		0°C ~ +45°C

Ordering Information:

ADH104E	4Ch H.264 GUI DVR , Record/Playback: 120/100IPS (CIF), 60/500 (HD1), 30/25 (FD1)
ADH209E	9Ch H.264 GUI DVR , Record/Playback: 240/200IPS (CIF), 120/100 (HD1), 60/50 (FD1)
ADH216E	16Ch H.264 GUI DVR , Record/Playback: 240/200IPS (CIF), 120/100 (HD1), 60/50 (FD1)

Extension models:

ADH**-D:** with DVD writer

ADH**-V:** with VGA main monitor output.

ADH**-DV:** with DVD writer & VGA main monitor output.



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