



AD104M 4-CH Mobile Purpose MPEG-4 Digital Video Recorder



Main Features:

- Embedded DVRs of compact size
- Half-size, 4-CH MPEG-4 DVR with multiple operation – record, live, playback, backup, control, & remote access
- MPEG-4 ASP (Advanced Simple Profile) video compression/decompression with configurable quality
- Record capabilities – Full-D1: 30/25IPS, Half-D1: 60/50IPS, CIF: 120/100IPS
- Playback capabilities – Full-D1: 30/25IPS, Half-D1: 60/50IPS, CIF: 120/100IPS
- Real-time live display for all cameras
- Bi-directional audio capabilities
- Event recording, time-lapse recording or both
- Playback search by time or event (alarm, motion, & video loss)
- **Smart search & playback**
- Digital zoom, X2 & X4
- Audio in * 2 / audio out * 2
- Main monitor * 1, Call monitor * 1
- **Optional VGA Output**
- 1 internal IDE hard drive
- Alarm in * 4 / alarm out * 2
- Ethernet for remote access, including web access, e-mail alarm notification, and FTP video/audio file storage
- **Remote access through mobile phone or PDA**
- RS-232 and RS-485 for PTZ, keyboard control, and GPS support
- SD card * 1 for video/audio backup
- USB * 1 for video/audio backup to versatile USB2.0 storage devices
- Optional I/R remote controller
- Multi-lingual support for setup and display
- Open system architecture for ease of access via network, RS-485 keyboard
- **Operating shock: 8G, 11ms (20 per five seconds max)**
- **Operating vibration: 5~500Hz, 0.75G (0 to peak)**

Specifications

System	O.S	Embedded Linux 2.6
	Multiplex	Six-fold operation - simultaneous record, live, playback, backup, control, & remote access
Video	Format	NTSC/EIA or PAL/CCIR
	Input	4-CH, BNC, 1Vp-p/75ohm
	Main monitor	BNC x 1, S-video x 1, 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	2 RCA-jack Audio connectors, line-in level (100mV-2Vrms)
	Output	2 RCA-jack Audio connectors, line-in level (100mV-2Vrms)
Record	Compression	Video: MPEG-4 ASP (Advanced Simple Profile) Audio: ADPCM
	Frame rate (IPS) & Resolution	NTSC: (30) / 720*480, (60) / 720*240, (120) / 360*240 PAL: (25) / 720*576, (50) / 720*288, (100) / 360*288
	Watermark	Yes
	Mode	Manual/Schedule/Alarm/Motion
	Pre-record time	0 - 10 seconds
	Post-record time	0 - 60 minutes
Display	Resolution	NTSC – 720*480, PAL – 720*576
	Split windows	1/4
	Frame rate	Up to 30 (NTSC) / 25 (PAL) IPS per display window
	Freeze	Yes
	Sequential switch	User adjustable
Playback	Frame rate (IPS) & Resolution	NTSC – (30) / 720*480, (60) / 720*240, (120) / 360*240 PAL – (25) / 720*576, (50) / 720*288, (100) / 360*288
	Search	Smart Search, Date/time, Camera, Alarm, & Motion
Storage	HDD	1 set of 2.5" IDE type HDDs, unlimited HDD storage size
	Partitions	Configurable alarm partition size Configurable auto-overwrite or not
	Backup	1 SD slot 1 USB 2.0 ports for USB 2.0 disk drives, DVD+RW, DVD+R, DVD-R, card readers, HDD, etc.
Alarm	Input	4 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
	E-mail	Alarm notification to stationary or mobile devices
	FTP	Alarm video/audio file storage
	Video	1/4 split-window & SEQ mode for I.E. and CMS Dynamic electronics maps for CMS
	Audio	Bidirectional
	Remote Users	Up to 8 users simultaneously
	Bandwidth	TCP/IP type dynamic sliding window control
	Remote Station	PC, mobile phone, or PDA
	Protocol	TCP/IP, HTTP, PPPoE, DHCP, DDNS, FTP, TSP

Control/GPS	I/R	1 I/R remote controller (Optional)
	RS-232	1 D-type female connector for PTZ or GPS 1 optional D-type female connector for PTZ or GPS
	RS-485	2-pin for keyboard, PTZ control, or GPS
Setup	Local	On screen setup via keypad, I/R remote controller, and/or RS-485 keyboard controller
	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
	Operating shock	8G, 11ms (20 per five seconds max)
	Operating Vibration	5~500Hz, 0.75G (0 to peak)
Weights & Measures	Dimension	215(W) x 260(D) x 72(H)mm
	Weight	3.0 KG (without HDD)
Power	Source	DC model - 12~24VDC AC model - 90~264 VAC, 47~63 Hz
	Consumption	18W Max.
Operating Temperature		0°C ~ +50°C

Ordering Information:

AD104M: Mobile, 4-CH MPEG-4 DVR

AD104MV: Mobile, 4-CH MPEG-4 DVR with VGA Output