



MK-1304

MK-1304 Mobile – 4 CH - H.264 - Digital Video Recorder with Detachable Host



- Embedded DVRs for all kinds of vehicles
- Detachable DVR host
- 4-CH H.264 DVR with sixfold operation – record, live, playback, backup, control, & remote access
- H.264 Baseline Profile video compression/decompression with configurable quality
- Digital watermark
- 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
- Realtime 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, acceleration, & speed)
- Smart search & playback
- Intelligent motion detection with programmable area and sensitivity
- 1 internal 2.5" SATA hard drive with storage up to 1TB
- Video/audio backup to built-in SD card or USB2.0 storage devices, including pen drive, DVD+RW, DVD+R, and DVD-R
- Ethernet interface for remote access through I.E. or proprietary remote software, e-mail alarm notification, FTP file storage, remote setup and software upgrade
- Remote access through mobile phone or PDA
- Remote controller, keypad, and mouse operation
- RS-232 and RS-485 for PTZ, keyboard control, and GPS support
- Car speeding pulse input
- Delay On/Off capability
- Multi-lingual support for setup and display
- Key lock, multi-level password and authentication key protection to ensure high degree of security
- Anti-shock and anti-vibration design
- Built-in heater for low temperature application
- Built-in G sensor for the detection of car accident
- OCX SDK available for the integration with different applications

Design and Specifications are subject to change without notice

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Specifications

System	O.S.	Embedded Linux 2.6
	Multiplex	Sixfold operation - simultaneous record, live, playback, backup, control, & remote access
	Certification	FCC, CE, LVDS, PSE, etc.
Video	Format	NTSC/EIA or PAL/CCIR
	Input	4-CH, CVBS, 1Vp-p/75ohm
	Main monitor	CVBS x 1, S-video x 1, 1Vp-p/75ohm Optional VGA D-SUB 15-pin connector
	Loss detection	Yes
	Motion detection	Yes, with configurable detection area & sensitivity
Audio	Input	2 RCA-jack connector, line-in level (100mV-2Vrms)
	Output	2 RCA-jack connector, line-out level (up to 2Vrms)
Record	Compression	Video: H.264 Baseline 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/ Acceleration/Speed
	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 camera
	Freeze	Yes
	Sequential switch	User adjustable
	Digital Zoom	X2, X4
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, Video Loss, Acceleration , & Speed
	Operation	Play, Fast Forward, Backward, Pause, Stop, etc. Remote I.E. and HEM can also Print
Storage	HDD	1 set of 2.5" SATA type HDD, Max. 1TB HDD storage size Failure detection supported Privacy law supported
	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. Self playback for backup files

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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, Car speed, & Acceleration (with built-in G sensor)
	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 Configurable HTTP/Control/Data port
	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 HEM Dynamic electronics maps for HEM
	Audio	Bidirectional
	Protocol	TCP/IP, HTTP, PPPoE, DHCP, DDNS, FTP, TSP
	Remote users	Up to 6 users simultaneously
	Bandwidth	TCP/IP type dynamic sliding window control
	Remote stations	PC, mobile phone, or PDA
Control / GPS / Car Speed	I/R	1 I/R remote controller through built-in sensor or wired remote sensor
	RS-232	1 D-type female connector for PTZ or GPS
	RS-485	2-pin for PTZ control or GPS
	Car speed	2-pin for car speeding pulse input with configurable parameters or from GPS
Setup	Local	On screen setup via keypad, I/R remote controller, and/or mouse
	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 Time synchronization with TSP server or GPS
	Security	Key lock for DVR host Multi-level password (3 levels, up to 18 accounts) protection for remote access
	Operating shock	8G, 11ms (20 per five seconds max)
	Operating vibration	With HDD : 5~500Hz, 1.65G (0 to peak) With SSD : 5~500Hz, 2.7G rms
	Weights & Measures	Dimension Weight
Power	Source	+12 or +24VDC, with acceptable range +9.5~30VDC
	Consumption	12W Max. without 12VDC output loading
	Delay ON/OFF	Yes, with configurable timer

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