

# PA-H4H Mobile DVR

PA-H4H is the newest high-end Hybrid H.264 MDVR family that provides the perfect surveillance solution for vehicles or rugged environments. It is fully loaded with hardware and software characteristics to meet any market specification. The fully featured CMS allows for live view, playback with Google Maps, and integration with Automatic Download, Health Monitor, and CMS software.



## Features

- 4-camera Analog or IP Megapixel camera system
- Embedded Linux OS for maximum stability
- Resolution: D1, HD1, CIF (Analog); up to 5 Megapixel (IP)
- H.264 video encoding
- Dual streaming video for low-bandwidth applications
- Support for USB AirCards (3G/4G)
- Built-in mirror recording function for fault tolerance
- Lockable, removable storage tray
- Built-in 3 axis inertial sensor
- Built-in GPS module (patent pending route rebuild)
- Built-in shock and vibration absorber
- PTZ control
- Small profile (7"x7"x2")
- 100% web-based client software
- Integration with Microsoft Active Directory

## Optional interfaces

- Built-in Wi-Fi module (802.11 B/G/N)
- USB 3.0 Caddy for the fastest USB Automatic Downloads
- Tire pressure monitoring system
- OBDII/J1939 (CANBUS)
- Built-in GPRS/3G/Edge/CDMA optional interface
- RFID Tag Reader
- MiFare Access Control Smart Card Reader
- Motorola MOTOTRBO radio
- Radar Gun
- Unique multi-channel audio recording matrix (Police Package)
- Video Classification (Police Package)

# H4H Technical Specifications

<b>System</b>	OS	Embedded Linux 2.6
	Operation Interface	Handheld IR remote controller or Control Panel Monitor
	Storage	<b>Removable caddy with selectable interface:</b>
		2.5" HDD/SSD interface or <b>H4H-D Model</b>
		SDXC 4~64GB interface <b>H4H-SD Model</b>
	<b>Mirror Recording (Raid 0)</b>	<b>SDXC 4~64GB option</b>
	Signal System	NTSC/PAL
<b>Video</b>	Camera Input	Up to 4 cameras with DIN connector for easy deployment (A+V+Power on one connector)
	Display	Up to 4 images
	Image Quality	Adjustable to 8 levels
	FWD/Playback Speed	x2, x4, x1/2, x1/4
	Stream Standard	ISO14496-10 (H.264 v10)
	Record Resolution	CIF, D1 and HD1 (Analog), Up to 5 Megapixel (IP)
	Image Compression	H.264
	Max FPS	NTSC 120FPS Global (Analog)
	Display Resolution	704x576 for PAL @ D1 / 720x480 pixels for NTSC @ D1
	<b>Hybrid Operation</b>	Up to 2 megapixel IP cameras (each IP camera replaces an analog camera)
<b>Audio</b>	Audio Input	4 Mono
	Audio Output	1 Mono
	Audio Compression	ADCPM+G.711 (8kbps) for better compatibility
	<b>Multi-Channel Audio</b>	Police Package includes Multi-Channel Audio Matrix
<b>I/O Interface</b>	Video Out	1x Composite output with RCA connector, 1x DIN connector with Audio+Video+Power on pigtail
	USB	USB 2.0 x1 on the front panel, x1 rear panel, x1 USB 2.0 on the HDD caddy ( <b>USB 3.0</b> optional on caddy)
	Serial	x2 RS-485, x2 RS-232
<b>Network</b>	Protocol	TCP-IP and UDP
	LAN	1 RJ45, 10/100 NIC
	Wireless Communications	Optional, built-in 3G HSPA modules, 3G/4G USB modules compatible
	WIFI	Built-in Wi-Fi module, IEEE 802.11 B/G/N, Super-G compliant (optional)
<b>Alarm</b>	Input	8 alarm inputs (5V~12V), for door, brakes, alarms, sensors, etc.
	Output	2 alarm outputs (12V), lights, audio alerts, etc.
	Software Multi-Mode	Video Loss, temperature, voltage, speed, motion, block camera, 3-axis accelerometer
<b>Power Requirements</b>	Ignition Detection	Detectable ignition power wire with programmable delay shutdown for auto-downloading
	Power Consumption	Average 10w with mechanical HDD, 55mA in standby mode
	Power input	8~36VDC, typical 12V DC @5A, 24V @ 3A
<b>Physical Dimensions</b>	Height	50.67mm / 2"
	Width	177.99mm / 7"
	Depth	177.34mm / 7"
	Weight	1.2Kg / 3Lb
<b>Other Functions</b>	<b>Motion Detection</b>	Yes, configure per-camera, 104 zone grid
	<b>Block Camera Detection</b>	Yes, configure per-camera with 4 sensitivity options
	Record Mode	Manual, Continuous, Timer, Alarm
	Time Clock	Perpetual built-in clock, customizable format
	Time Sync	GPS and NTP
	GPS Function	Built-in GPS module
	Data R/W Mode	FIFO
	<b>3-Axial accelerometer</b>	On board module
<b>Environment</b>	Operating Temperature	-40~85°C (Achieved using industrial-grade storage media)
	Relative Humidity	5%~80%
	Vibration Resistance	<2 Grms

## SOFTWARE SOLUTION

CMS	AUTO DOWNLOAD SERVER	MOBI-LINK
<ul style="list-style-type: none"> <li>Web Client</li> <li>Playback Video, Audio, Map, and associated metadata</li> <li>Allows remote MDVR configuration</li> </ul>	<ul style="list-style-type: none"> <li>Automatically downloads videos via Wi-Fi or USB</li> <li>Powerful Search Interface</li> <li>Creates a file database</li> <li>100's of assets managed at one video storage server</li> <li>Scheduled Video Downloads</li> </ul>	<ul style="list-style-type: none"> <li>Monitor 1000s of assets on one server</li> <li>Allows automated alarm notification</li> <li>Geo-fence, route deviation alerts</li> <li>Route Rebuild</li> <li>Mobile DVR Health Monitor</li> </ul>
FREE	LICENSED	LICENSED