MOBILE WITNESS

www.mobilewitness.com

MCU Mobile DVR

MCU is the newest high-end Hybrid H.264 MDVR in the Mobile Witness™ family that provides the perfect surveillance solution for vehicles or rugged environments. With a total of 4 cameras (4 Analog or 4 IP), the MCU is fully loaded with hardware and software characteristics to meet any market specification. The fully featured Mobile Witness Manager™ allows for live view, playback with Google Maps, and integration with Automatic Download, Health Monitor, and MobileLink™ software. All firmware and client software is developed, supported, and maintained in the USA for maximum network security, performance, and stability.

Features

- Any Combination of 4 Cameras, Analog or Megapixel IP
- Dual Core ARM CPU Running Linux Embedded 3.0
- Analog Resolution: 960H, D1, HD1 and CIF
- H.264 Video Encoding
- Dual Streaming Video for Low-Bandwidth Applications
- Support for USB Air Cards (3G/4G)
- 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
- DIN-Style Mount, Small Profile (7”x7”x2”)
- Web-Based Client Software
- Integration with Microsoft Active Directory

Optional interfaces

- Built-In Wi-Fi Module (802.11 N)
- Bluetooth 4.0
- Battery Backup
- USB 3.0 Caddy for the Fastest Video File Access and Retrieval
- Tire Pressure Monitoring System
- OBDII/J1939 (CANBUS)
- Built-In GPRS/3G/Edge/CDMA/LTE Modules
- RFID Tag Reader
- MiFare Access Control Smart Card Reader
- Motorola MOTOTRBO Radio
- Mirror Recording Function for Fault Tolerance (Police Package)
- Radar Gun (Police Package)
- Unique Multi-Channel Audio Recording Matrix (Police Package)
- Video Classification (Police Package)

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MCU Technical Specifications

System	OS	Embedded Linux 3.0	
	Operation Interface	Handheld IR remote controller or Control Panel Monitor	
	Storage	Removable caddy with selectable interface:	
		2.5" True SATA III HDD/SSD interface	MCU-D Model
		SDXC 4~256GB interface	MCU-SD Model
	Mirror Recording (Raid 0)	SDXC 4~256GB option	
	Signal System	NTSC/PAL	
Video	Analog Camera Input	Up to 4 cameras with DIN connector for easy deployment (A + V +Power on one industrial-grade connector)	
	IP Camera Input	Up to 4 IP cameras (2.0 MP at 30 FPS). ONVIF 2.0 / RTSP	
	Image Quality	Adjustable to 8 levels	
	FWD/Playback Speed	x2, x4, x1/2, x1/4	
	Stream Standard	ISO14496-10 H.264 Baseline/Main/High Profile Level 4.2	
	Record Resolution	CIF, HD1, D1 and 960H (Analog), 8x's 2 MP @ 30 FPS (IP)	or 8X's 5 MP @ 7 FPS (IP)
	Image Compression	H.264	
	Global FPS (Analog)	NTSC 120 FPS @ D1 , 120 FPS @ 960H	
	Display Resolution	704x576 for PAL @ D1 / 720x480 pixels for NTSC @ D1	
	Display	Up to 4 Images (4 Analog or 4 IP)	
Audio	Audio Input	8 Mono	
	Audio Output	1 Mono	
	Audio Compression	ADCPM+G.711 (8kbps) for better compatibility	
	Multi-Channel Audio	Feature Included on Police Package only	
I/O Interface	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, x2 rear panel, x1 USB 3.0 on the HDD caddy	
	Serial	x2 RS-485, x2 RS-232	
Network	Protocol	TCP-IP and UDP	
	LAN	1 RJ45, 10/100 NIC	
	Wireless Communications	Optional, built-in 3G/4G modules, 3G/4G USB modules compatible (Mini PCIe)	
	WIFI	Built-in Wi-Fi module, IEEE 802.11 N	
Alarm	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	
Power Requirements	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	
Physical Dimensions	Height	50.67mm / 2"	
	Width	177.99mm / 7"	
	Depth	177.34mm / 7"	
	Weight	1.2Kg / 3Lb	
Other Functions	Motion Detection	Yes, configure per-camera, 104 zone grid	
	Block Camera Detection	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	
	3-Axial accelerometer	On board module (except in Lite version)	
Environment	Operating Temperature	-40~85°C (achieved using industrial-grade storage media)	
	Relative Humidity	5%~80%	
	Vibration Resistance	<2 Grms	

SOFTWARE SOLUTION

MOBILE WITNESS MANAGER	AUTO DOWNLOAD SERVER	MOBILELINK
• Web client • Playback video, audio, map, and associated metadata • Allows remote MDVR configuration	• Automatically downloads videos via Wi-Fi or USB • Powerful search interface • Creates a file database • 100s of assets managed at one video storage server or multiple ADS locations • Scheduled video downloads	• Monitor 1000s of assets on one server • Allows automated alarm notification • Geo-fence, route deviation alerts • Route rebuild • Mobile DVR health monitor
FREE	LICENSED	LICENSED