

MOBILE VIDEO RECORDER

TB-MD5043-SD//GLF

SECURING YOUR LIFE

Introduction

TB-MD5043 series DVR is a professional solution to vehicle video and audio management with built-in Linux operating system. It supports input of HDTV, AHD and CVBS cameras in HIK-wiring- sequence and CVBS video and audio output, featuring HD encoding/decoding, transmission based on 4G wireless network, satellite positioning, secure data storage, HDD vibration absorber, alarm input/output, driving information collecting and ports added for peripheral devices. It provides camera selection and coding solutions specialized in video and audio recording management for public transports, school buses, taxis, learner-driven vehicles, trucks, etc. The product also supports extended features like Abnormal Detection, which can improve traffic security and reduce the vehicle accident.



Features

- Access of 4 HD TVI cameras with up to 1080p resolution.
- Pluggable dummy HDD for HDD with up to 2 TB capacity.
- User-friendly GUI providing easy and flexible operations.
- Pluggable 4G module and Wi-Fi module providing flexible data transmission solutions.
- Built-in GPS module precisely positioning the vehicle via the satellite and recording the location information in the video stream.
- Information collection interfaces collecting driving information such as left/right turn, braking, reversing, etc.
- Specialized aviation connectors ensuring signal stability.
- Shutdown delay (0 h to 6 h) and 24-hour scheduled startup/shutdown.
- Build-in super-capacitor prevents the mobile DVR from damage caused by sudden power outage.
- Wide-range power input (+9 VDC to +36 VDC).
- Power-off protection prevents key data loss.
- Aluminum die-cast chassis with no fan design well adaptable to working environment.
- Software-based firewall supported.
- Support accessing via WEB browser.
- Support Abnormal Detection.
- Support recording backup on redundant HDD/SSDs.

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Specifications subject to change without notice.



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Specifications

Video/Audio Input	Analog Camera	4-ch HIK wiring sequence analog camera, Max. 1080P
	Two-way Audio	1, integrated in EXT.DEV interface
Video/Audio Output	Video Output	Main output: 1, integrated in EXT.DEV interface VGA: 1
	Audio Output	1
Encoding/Decoding Parameters	Video Compression	H.264/H.265
	Encoding Resolution	Main stream: 1080p/720p/WD1/4CIF Sub-stream: 720P/WD1/4CIF/2CIF/CIF
	Frame Rate	PAL: 1 to 25 fps; NTSC: 1 to 30 fps
	Audio Compression	G.711a/G.711u/G.722.1/G.726
	Stream Type	Video, video & audio
	Audio Bitrate	16 Kbps
	Dual Stream	Supported
Storage	HDD/SSD	2 × 2.5 inch HDD/SSD, up to 2 TB for each HDD/SSD HDD/SSD data can be exported locally via this converter (optional) (A dummy HDD with 2 HDD/SSDs can be extended; Not for baseline. Note the SD card capacity when ordering)
	SD Card	1 × SD card, up to 256 GB (not for baseline. Note the SD card capacity when ordering)
Wireless Network	4G Dialing	1 × 4G card slot, 1 ×FAKRA antenna
	Available Module	5G module(optional)
	Wi-Fi	WI58 model: 2 × 5.8 G Wi-Fi SMA antenna (Optional. 802.11B/G/N and 802.11AC are selectable. 1 antenna is needed for 802.11B/G/N module. 2 antennas are needed for 802.11AC module.)
Positioning	GNSS (Global Navigation Satellite System)	GPS (Global Positioning System) & GLONASS (Global Navigation Satellite System), 1 ×FAKRA antenna
External Interface	Network Interface	<ul style="list-style-type: none"> ● Front panel :1 ×10M/100M RJ45 ● Rear panel: 1 × 10M/100M M12 6-pin aviation connector <i>Note : The front and rear network ports are at different network segments and the 6-pin aviation network cable female head to RJ45 is optional.</i>
	Serial Port	2 × RS-232(harness is optional), 1 × RS-422 (integrated in EXT.DEV interface)
	USB Interface	<ul style="list-style-type: none"> ● Front panel: 1 × USB 2.0 ● Rear panel: 1 × USB 2.0 (5-pin aviation connector)
	Sensor-in	4 high/low level signal inputs
	Alarm Input	4 high/low level signal inputs, 1 pulse signal input, 1 BUTTON input
	Alarm Output	2 relay signal outputs

General	Operating Method	Mouse, IR remote control, Web control, and touchscreen
	AI Function	Abnormal Detection
	G-sensor	Built-in
	Remote Control	Optional
	Power Supply	+9 to +36 VDC
	Consumption	<ul style="list-style-type: none"> ● Standby: ≤0.5 W ● Fullload: ≤45 W
		Note: Without peripheral and storage media ≤ 20 W
	Working Temperature	-10 °C to +60 °C (+14 °F to +140°F)
	Working Humidity	10% to 95%
	Device Dimension (W × D × H)	206 × 225.4 × 60.1 mm (8.1 × 8.87 × 2.37 inch)
	Device Weight (Without Storage Media)	1.7 kg (3.75 lb)



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