HIKVISION

DS-9000HMFI-ST Series

Mobile DVR

Introduction:

Adopting embedded Linux operating system, Hikvision DS-9000HMFI-ST series dedicated Mobile DVR (Digital Video Recorder) provides powerful monitoring functionalities, including audio and video encoding & decoding, 3G & Wi-Fi (optional) wireless network transmission, satellite positioning service, secure data storage, hard disk vibration damping. It can both work alone as a recorder and cooperate with other devices to build a comprehensive surveillance system.

Thanks to the features of high stability, easy-to-carry and low power consumption, the DS-9000HMFI-ST series Mobile DVR is widely applied to the surveillance projects of public transportations, school buses, etc.

Available Models:

DS-9000HMFI-ST series

NOTE

- The 3G dialing function is only supported by the "/GW" devices.
- The Wi-Fi function is only supported by the "/WI" devices.

Main Features:

- User-friendly GUI providing easy and flexible operations
- Each channel supporting up to WD1 resolution with high-efficient and flexible H.264 encoding technology
- Built-in 3G (WCDMA) and Wi-Fi (optional) module providing flexible data transmission solutions
- pluggable GPS (Global Positioning System) module precisely positioning the vehicle via the satellite, recording the location information in the video
- Hikvision private protocol (4000 protocol)
- 3-ch CVBS video outputs and 3-ch audio outputs
- 1-ch VGA video output at up to 1920×1080 resolution
- Two pluggable 2.5-inch HDDs / SSDs and one SD / SDHC card, adopting hard disk vibration damping technology
- Information collection interfaces collecting driving information such as left/right turn, braking, backing up, etc.
- Hard disk box with USB interface supporting intelligent temperature control and data export
- Specialized aviation connectors ensuring signal stability
- Extension interfaces for external devices, such as G-sensor, etc.
- Delay (0~6h) shutdown and 24-hour scheduled startup/shutdown
- Wide-range power input (+8VDC ~+36 VDC)
- Power-off protection avoiding key data from loss
- Aluminum die-cast chassis with no fan design well adaptable to working environment
- Software-based firewall supported

Physical Interfaces:

Front Panel
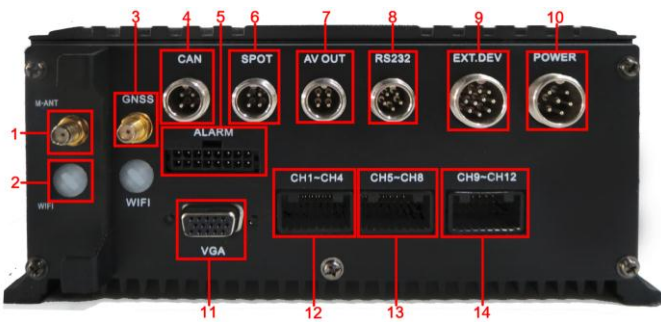

Index	Name	Description
1	AV OUT	6-pin aviation plug for audio & video output, providing power supply
2	LAN	Network interface
3	USB/eSATA	USB interface/eSATA interface
4	Indicators	PWR: Power indicator Light in green after device startup; Light in red when device standby.
		GNSS: GNSS indicator The light is out when GNSS module is abnormal; Light in green when the GNSS module is working normally and positioning; Blink in green after the positioning is complete successfully.
		RDY: Ready indicator Light in green when the device is started up
		3G: 3G indicator Light in green when 3G module works normally; Blink slowly in 3G registration; Blink fast after successful 3G registration.
		REC: Record indicator Light in green in recording; The light is out when all recording processes are abnormal.
		ALM: Alarm indicator Light in red when alarm occurs.
		IR: IR receiver Receive IR signal from remote control.
5	SD Card Slot	Insert the SD card for data storage.

Rear Panel

Index	Name	Description
1	**M-ANT**	3G master antenna interface
2	**WIFI**	Wi-Fi antenna interface (reserved)
3	**GNSS**	GNSS antenna interface
4	**CAN**	CAN function interface (reserved)
5	**ALARM**	Alarm input/output interface, including sensor input
6	**SPOT**	Spot output interface of video
7	**AVOUT**	4-pin aviation plug for audio & video output
8	**RS232**	Connector for RS-232 devices
9	**EXT.DEV**	10-pin aviation plug for RS-422 communication (also reserved for automobile station reporter)
10	**POWER**	6-pin aviation plug for power supply
11	**VGA**	VGA interface
12	**CH1~CH4**	Audio & video input of channel 1~4, providing power supply (12V)
13	**CH5~CH8**	Audio & video input of channel 5~8, providing power supply (12V)
14	**CH9~CH12**	Audio & video input of channel 9~12, providing power supply (12V)

NOTE

- Part function is optional. For details, see the actual device model.
- The interfaces vary according to the actual device models.

Specifications

Model		DS-9008HMFI-ST series	DS-9012HMFI-ST series
Video/Audio input	Analog video input	8-ch	12-ch
		Aviation plug (1.0 Vp-p, 75 Ω)	
	Audio input	8-ch	12-ch
		Aviation plug (linear level,1 KΩ)	
Video/Audio output	VGA output	1-ch	
		Resolution: 1920×1080 / 60Hz, 1600*1200/60Hz, 1280×1024 / 60Hz, 1280×720 / 60Hz, 1024×768 / 60Hz	
	CVBS output	3-ch; AV OUT (on the front panel), AV OUT (on the rear panel), EXT.DEV	
		Aviation plug (1.0 Vp-p, 75 Ω); resolution: PAL: 704 ×576, NTSC: 704 ×480	
	SPOT output	1-ch	
	Audio output	2-ch	
		Aviation plug (linear level,600 Ω)	
Video/Audio compression	Video compression	H.264	
	Encoding resolution	WD1 / 4CIF / 2CIF / CIF	
	Video frame rate	PAL: 1 ~ 25 fps, NTSC: 1 ~ 30 fps	
	Video bitrate	32 Kbps ~ 2048 Kbps, or user defined (Max. 4 Mbps)	
	Stream type	Video, Video & Audio	
	Audio bitrate	16Kbps	
	Two-way audio	G.722	
Hard disk	Type	Two 2.5-inch SATA HDDs / SSDs	
	Capacity	Up to 2*1TB capacity supported	
	Installation	Pluggable	
	HDD Patent	Patented hard disk vibration reduction technology	
	Backup	Hard disk box, USB interface and eSATA interface supporting data backup	
Wireless Network	Dialing	3G (WCDMA)	
	Wi-Fi (optional)	Built-in, 802.11 b/g/n supported, 2.4GHz	
Positioning	GNSS	GPS	
External interface	Driving information collection	4-ch high/low-level signal input, 1-ch pulse signal input(reserved)	
	Alarm in	3-ch high/low level signal input	
	Alarm out	2-ch relay output	
	Network interface	1; RJ45; 10M/100M self-adaptive Ethernet interface	
	Antenna interface	SMA interfaces: One for 3G, two for Wi-Fi (reserved), and one for GPS	
	Serial interface	1, RS-232; 1, RS-422; aviation plug	
	eSATA interface	1	
	USB interface	1 ×USB2.0	
	EXP.STOR	Connectable to external HDD for storage expansion (reserved)	
	SIM / UIM card	1, standard SIM / UIM card slots	
	SD / SDHC card	1, standard SD / SDHC card slots	
General	Operating system	Linux	
	Operating method	IR remote control	

	Power supply	Input: +8~ +36VDC; Output: 12VDC/2A, 5VDC/1A
	Consumption	Standby: Max. 0.5W; Full load: Max.20W (without IP camera or hard disk)
	Working temperature	-10 ℃ ~ +55 ℃ (14 ℉ ~ 131 ℉)
	Working humidity	10%~95%
	Dimensions (W×D×H)	245.8mm * 202mm * 86.87mm
	Weight	Aprox.3.25kg (without hard disk)