

SA-MH2104F Embedded MDVR Product Specifications

1. Product Appearance



Front Appearance



Rear Appearance

2. Product Features

Adopt H.265 & H.264 codec to save storage space and transmission traffic;

High resolution: supports 8 channels of 1080P*15FPS/4 channels of 1080P*30FPS, 720P, D1 and

other codecs;

Supports 1 SATA hard drive, easy to access and meets large-capacity storage requirements;

Supports 1 SD card recording and 1 USB interface;

Supports 1 SIM card dial-up to access the Internet;

Support 6 channels of IO alarm input, support RS232 and RS485 functions;

Optional support for WIFI, 4G, GPS and other functions;

Support mobile APP, client, platform software preview video and parameter configuration;

Dedicated file system improves disk reading and writing efficiency and makes video recording more stable;

Built-in AI intelligent algorithm, supports ADAS, DMS, BSD detection, and 360 panoramic stitching;

Industrial-grade appearance design, aluminum alloy shell, product is light and fast, with good heat dissipation;

2. Product Specifications

project		parameter	
		4CH	8CH
system	operating language	Chinese English	
	operating system	Linux	
	Operation interface	Graphical menu operation interface (OSD menu), character overlay function;	
	GUI	Support mouse and remote control operation to set system parameters	
Processor and CPU	CPU	ARM Cortex CA9 dual core@1.4GHz	
	Memory	1GB DDR 3	
Video and recording system	video input	4-way CVBS, 1.0Vp-p, 75Ω	8-channel CVBS, 1.0Vp-p, 75Ω
		Supported camera resolutions: 1080P, 720P, D1	
	video output	1 VGA, 1 CVBS, 1.0Vp-p, 75Ω, supports full screen and 4/9 split	
	video standards	PAL format, NTSC format	
	Video compression format	H.264/H.265 compression format	
	Preview function	Single-channel, 4/9 screen splicing preview, supports manual/event-triggered full-screen display function	
	Video resolution	Supports 1080P, 720P, D1, HD1, CIF optional, total encoding resources 1080P 150 frames	
	Video quality	Image quality from 1 to 8, with the best level 1 and the lowest level 8	
	Recording	PAL : 100 frames /s, CCIR625 line, 50 games	

	rate	NTSC : 120 frames /s, CCIR525 line, 60 fields; CIF: 256Kbps ~ 1.5Mbps, multi-level image quality optional HD1: 600Kbps ~ 2.5Mbps, multi-level image quality optional D1 : 800Kbps ~ 3Mbps, Multiple levels of image quality optional 720P: 1Mbps-4Mbps , Multiple levels of image quality optional 1080P: 1Mbps~8Mbps, multi-level image quality optional	
	Video recording method	Automatic recording by default, supports ignition recording, alarm recording, etc.	
Audio	audio input	4-way analog audio	8-channel analog audio
	Audio output	1 channel, optional external speaker ($\leq 8 \Omega$ 2W)	
	Compression format	G.711A compression format	
	Recording method	Simultaneous recording of sound and video	
Alarm input		6 switching inputs	
Alarm Output		1 output, linked to sound and light alarm, oil and power cutoff, etc.	
Communication Interface		1 USB interface	
		1-way RS232 interface, expandable for credit card machines, oil level sensors, etc.	
		1 RS485 interface, expandable pan/tilt	
		1 channel 10M/100M adaptive network interface, supports TCP/IP, FTP, DDNS network protocols	
Extension ports		1-way voice intercom interface, which can be connected to the call handle	
		Can be connected to a multi-function control panel (supports 12V power supply and RS232 communication)	
Wireless transmission		Can have built-in 4G wireless transmission function, TDD-LTE, FDD-LTE	
		WIFI: Wireless 802.11b/g/n communication module	
GPS positioning		Support built-in GPS/BD module	
sensor		Built-in 3-axis acceleration and 3-axis gyroscope sensors	
disk	harddisk	Built-in SATA interface hard disk, supports up to 4T	
	SD card	1 large-capacity SD card recording, maximum support 512G, can support synchronous sub-stream recording	
	Upgrade method	Support U disk upgrade, SD card upgrade, FTP remote automatic upgrade	
	Storage method	Proprietary bare disk storage method	
	USB	Front USB interface, U disk can be used to upgrade and backup data; supports USB mouse	

	SIM card interface	1 SIM card interface	
Video playback	Video search	Recorded video data can be searched by recording time, recording method, etc.	
	Playback	Support 4-channel synchronous playback, support 2, 4, 8, 16X fast forward or rewind	Support 8-channel synchronous playback, support 2, 4, 8, 16X fast forward or rewind
AI algorithm	ADAS	Lane departure, pedestrian, vehicle distance detection, etc.	
	DSM	Fatigue driving detection, smoking, blocking and unsafe driving behavior detection	
	BSD	Left blind area, right blind area detection	
Power supply and power consumption	Power management	Adaptive wide power input, with overload, undervoltage, short circuit, reverse connection and other protection functions; supports scheduled power on and off, delayed shutdown functions.	
	Input voltage	DC:+9V ~ +36V	
	The output voltage	+12V@1A, +5V@1A	
	Power consumption	Normal working state < 8W (without peripherals)	
working environment	temperature	-10℃ to +70℃	
	humidity	20% to 80%	
Security management	Password access	Two-level management of user password and administrator password	
Platform access	JT/T808-2011, JT/T808-2019		
	JT/T1076-2016, JT/T1078-2016		
	TTX private protocol, GB28181, RTMP optional		
physical dimension	195mm*183mm*60mm		
net weight	1.6kg		