AlwayCare
Caring All Ways Safely

MR920 Specifications
(V2.0)

Table 1 MR920 product specification sheet

Item		Specification
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.
Video and recording system	video input	M12 4P aviation head interface 8 video inputs, supporting camera resolutions: 1080P, 720P, D1
	video output	1 channel CVBS, 1 channel VGA
	video standards	PAL format, NTSC format
	Video compression format	H.264/H.265 compression format
	Video resolution	Support 1080P, 720P, D1, HD1, CIF optional
	Video quality	Image quality from 1 to 8, with the best level 1 and the lowest level 8
	Video recording method	Automatic recording by default, supports ignition recording, alarm recording, etc.
Audio	audio input	Support 8 channels of camera audio input
	audio output	1 channel, built-in amplifier
	Compression format	G.711A compression format
	Recording method	Simultaneous recording of sound and video
External interface	I/O	8 switching inputs, 1 emergency alarm input 2-way switching output, linked sound and light alarm, etc.
	USB	1 channel, U disk can be used to upgrade and back up data, and

		supports USB mouse;
	RS232	1 channel, expandable credit card machine, oil level sensor, etc.
	RS485	1 channel, expandable PTZ
	Wired network port	1 way (optional)
	VGA	1 way
	Intercom	1 way
Wireless transmission	4G	1 way 4G
	WiFi	1 channel (wireless 802.11b/g/n communication module)
Satellite positioning	position	Supports GPS and BD (Beidou) dual-mode positioning
Sensor	Sensor	Built-in 3-axis acceleration sensor
Storage	Hard Disk	Support SATA interface hard disk, up to 4T
	SD Card	Supports 1 large-capacity SD card recording, up to 512G
	Storage Method	Proprietary bare disk storage method
Video playback	Video search	Recorded video data can be searched by recording time, recording method, etc.
	playback	Supports up to 1 ~ 8 channels of synchronous playback, supports 2, 4, 8, 16X fast forward or rewind
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
	Output voltage	+12V@1A，+5V@1A
	Power consumption	Normal working status <25W (without peripherals)
working environment	temperature	-25℃ to +70℃
	humidity	20% ~90%
Security management	Password access	Two-level management of user password and administrator password
Platform access		JT/T 808-2011, JT/T 808-2019，JT/T 905.2-2014 可选
physical dimension		195*183*65mm

Net Weight	1.6kg

1 Equipment specifications

This chapter systematically introduces the functional overview, characteristics, detailed specifications, and precautions of the equipment.

1.1 Front panel definition

图 1 前面板示意图

Item	Name	Function Introduction
1	PWR indicator light	Power status indicator light (the light remains on after the device is powered on)
2	GPS indicator light	GPS status indicator light (always on after positioning)
3	4G indicator light	4G connection indicator light (normally lit during normal connection)
4	WIF indicator light	WiFi connection indicator light (normally lit during normal connection)
5	SD indicator light	SD card status indicator light (normally recognized card, light remains on; during recording, light flashes)
6	HDD indicator light	Hard disk status indicator light (normally on when recognizing the hard disk; flashing during recording)
7	USB port	Used for video export, configuration file import and export, and software upgrade

8	Hard drive card slot	Can support the installation of a 2.5-inch SATA hard drive for storing regular recordings, alarm recordings, and images
9	SD Card Slot	SD card slot for storing regular recordings, alarm recordings, and images
10	SIM Card Slot	Sim card slot for 4G networking

1.2 Rear panel definition

Figure 2 Schematic diagram of the rear panel

Item	Name	Function Introduction
1	AV 1-8	Camera video input port
2	AV-OUT	CVBS video output interface
3	RJ45	Wired network port
4	VGA	VGA video output interface
5	IO/RS232/485	I/O expansion cable interface
6	PWR	Power interface. Connect the red wire to the positive pole of the on-board power supply; The black wire is connected to the negative pole of the vehicle power supply, and the yellow wire is the ACC signal wire

7	WIFI	WIFI antenna interface, connecting WIFI antenna. (Connect the mobile debugging app for easy installation and debugging)
8	GPS	GPS antenna interface, connecting GPS antenna. (Obtain location, speed, and other information)
9	4G	4G antenna interface for connecting 4G antennas. (4G wireless network transmission of audio and video positioning alarm and other data information)

1.3 DMS camera specifications (optional)

DSM Camera	Specification
Name	DMS Camera
Size	84×84×31.5mm (excluding bracket) 84×84×162mm (including bracket)
Pixels	1280×720
Format	PAL
Port	Aircraft carrier head
Power	DC12V

1.4 HOD Camera specifications

ADAS Camera	Specification
Name	HOD Camera
Size	60 x 70mm
Pixels	1280×720
Format	PAL/NTSC，default PAL
Port	Aircraft carrier port
Power	DC12V

1.5 ADAS Camera specifications (optional)

ADAS Camera	Specification
Name	ADAS Camera
Size	65×55×37mm
Pixels	1280 x 720
Format	PAL/NTSC，default PAL
Port	Aircraft carrier port
Power	DC12V

1.6　BSD Camera specifications (optional)

BSD Camera	Specification
Name	BSD Camera
Size	90x63x65mm
Pixels	1920×1080
Format	PAL/NTSC，default PAL
Port	Aircraft carrier port
Power	DC12V

1.7　360 Camera specifications (optional)

360 Camera	Specification
Name	360 Camera
Size	60.5x43x37mm
Pixels	1920×1080
Format	PAL/NTSC，default PAL
Port	Aircraft carrier port
Power	DC12V