# AlwayCare MR930 Specification

## (V2.1)

The basic working parameters of MR930 are shown in Table 1

Table 1 MR930 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<br>12 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 12 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<br>2-way switching output, linked sound and light alarm, etc. |

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|---|---|---|
| | USB | 2 channel,<br>Front USB interface，U disk can be used to upgrade and back up data, and supports USB mouse;<br>Rear USB interface (5PIN aviation connector on the rear panel), which can be used for disaster recovery recording |
| | RS232 | 3 channel, expandable credit card machine, oil level sensor, etc. |
| | RS485 | 1 channel, expandable PTZ |
| | CAN | 2 way |
| | Wired network port | 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（G-sensor） |
| Storage | Hard Disk | Support SATA interface hard disk, up to 4T |
| | SD Card | Supports 1 SD card, 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 12 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 <20W (without peripherals) |
| working environment | temperature | -25℃ to +70℃ |
| | humidity | 8% ~90% |

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|---|---|---|
| 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 optional |
| 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

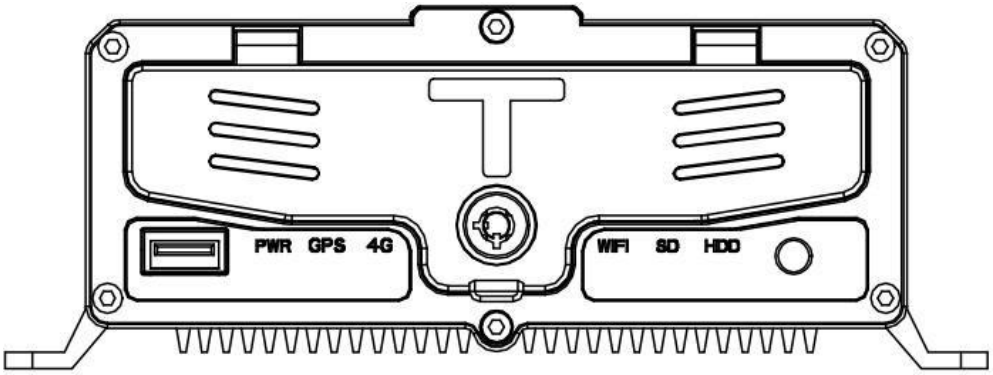


Figure 1 Schematic diagram of Front panel

| 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

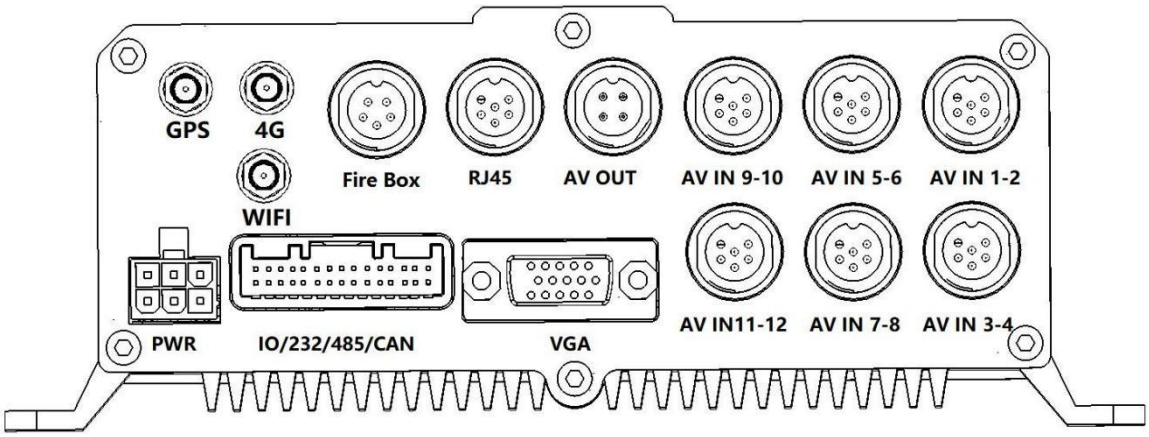


Figure 2 Schematic diagram of the rear panel

| Item | Name | Function Introduction |
|---|---|---|
| 1 | AV IN 1-12 | Camera video input port |
| 2 | AV-OUT | CVBS video output interface |
| 3 | RJ45 | Wired network port |
| 4 | Fire Box | Disaster recovery storage interface |
| 5 | VGA | VGA video output interface |
| 6 | IO/232/485 | I/O expansion cable interface |
| 7 | 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 |
| 8 | WIFI | WIFI antenna interface, connecting WIFI antenna. (Connect the mobile debugging app for easy installation and debugging) |
| 9 | GPS | GPS antenna interface, connecting GPS antenna. (Obtain location, speed, and other information) |

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|---|---|---|
| 10 | 4G | 4G antenna interface for connecting 4G antennas. (4G wireless network transmission of audio and video positioning alarm and other data information) |

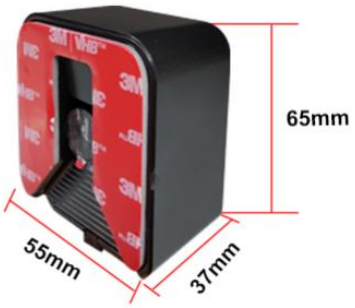
## 1.3 DMS Camera Specifications (optional)


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

## 1.4 EDSM Camera Specifications (optional)

| ADAS Camera | Specification |
|---|---|
| Name | EDSM 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 |