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# XMR406NAHD



## Products Introduction

M1N2.0 is a multifunctional in-vehicle intelligent terminal composed of storage module, encoding module, communication and power module, etc., with the integration of in-vehicle video monitoring, platform remote video monitoring, and driver driving behavior analysis.

It has a powerful video access and encoding capabilities, maximum support for 4Ch AHD and 2Ch IPC. Can simultaneously support 6Ch 1080P@30fps full HD real-time full frame encoding and recording capabilities, to ensure that the video quality frame rate is not lost.

The product has built-in rich wireless communication capability, supporting 4G/3G high-speed network, WIFI wireless network, and GPS/BDS/GALILEO/GLONASS multi-band quad-constellation global GNSS positioning system at the same time.

## Product Advantages

- Supports 4Ch AHD and 2Ch IPC;
- Full HD 6Ch 1080P@30fps real-time full-frame encoding in video-only case;
- Supports AHD HD video output;
- Optional support for digital SIM card technology (eSIM), more resistant to temperature and vibration; extended support for 4G main and hierarchical antennas.
- Supports GPS/BDS/GALILEO/GLONASS for more accurate positioning; external waterproof antenna with IP67 rating.
- External interface automotive-grade, high-

Products built-in powerful NPU processing capabilities, based on AI algorithms, can support 2Ch built-in AI, which can fully cover ADAS, DMS, BSD. effectively improve driver safety driving and reduce pedestrian-vehicle traffic accidents

At the same time, M1N2.0 has a strong anti-interference ability of the vehicle environment, the product meets the ISO16750, ISO7637 vehicle test standards, to meet the use of different vehicle types installed.

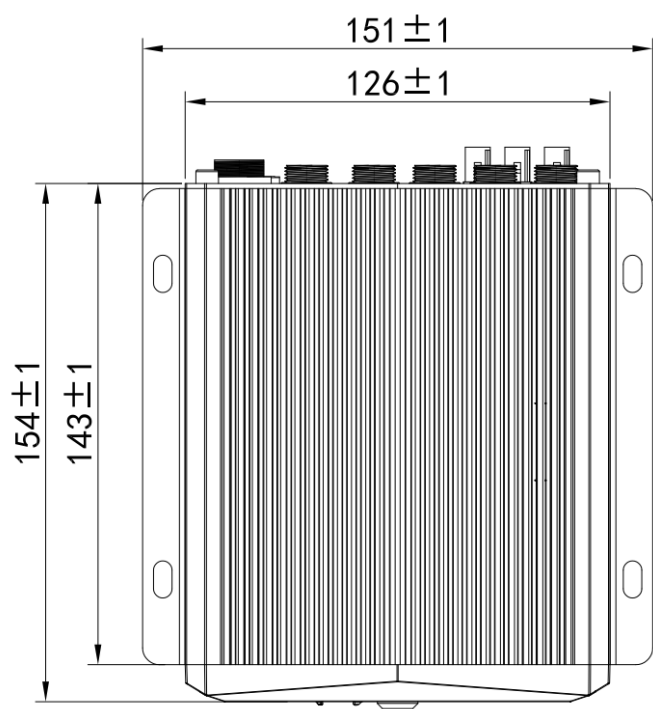
- precision quick-release connectors support quick disengagement for easy installation and maintenance;
- High-speed processor and powerful neural network inference engine with built-in AI;
- Supports 2Ch Micro SD , up to 2\*512G; additional support for 1\*M.2 SSD storage, up to 1\*2TB
- The whole system adopts mechanical vibration reduction, electronic vibration prevention and software vibration prevention, a combination of three comprehensive vibration reduction technology;
- Rich peripheral interfaces;

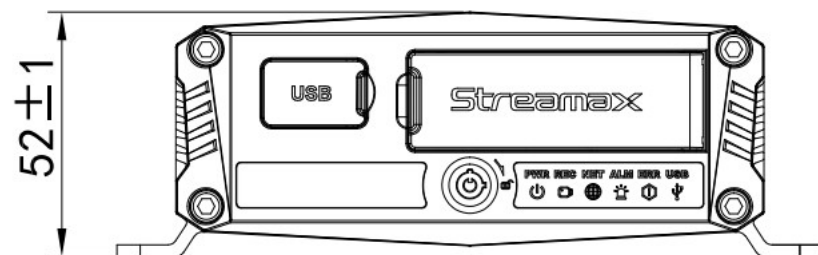
Product Specifications

|                    |  |                                                                                 |
|--------------------|--|---------------------------------------------------------------------------------|
| Product Model      |  |                                                                                 |
| M1N 2.0 -H0402     |  |                                                                                 |
|                    |  |                                                                                 |
| Technical item     |  | Technical indicators                                                            |
| Basic Parameters   |  |                                                                                 |
| RAM                |  | 1GB                                                                             |
| ROM                |  | 8GB                                                                             |
| Operating system   |  | Linux                                                                           |
| 3G/4G              |  | TDD-LTE/FDD-LTE/EVDO/TD-SCDMA/WCDMA                                             |
| WIFI               |  | Extended support for main and diversity antennas                                |
| Localization       |  | WIFI5 support, 802.11b/g/n/ac compliant (optional)                              |
| Storage            |  | Support GPS/BDS/GALILEO/GLONASS                                                 |
| Transducers        |  | Support 2*Micro SD card, Up to 2*512GB                                          |
|                    |  | Support 1*M.2 SATA SSD, Up to 1*2TB.                                            |
|                    |  | Supports 6-axis accelerometers                                                  |
| Interface Function |  |                                                                                 |
| Video input        |  | 4Ch AHD + 2Ch IPC                                                               |
|                    |  | (Maximum resolution support 1080P)                                              |
|                    |  | Full HD real-time full frame encoding with the following encoding capabilities: |
| Codecs             |  | PAL: 4*1080P@25fps (AHD) + 2*1080P@30fps (IPC)                                  |
|                    |  | NTSC: 4*1080P@30fps (AHD) + 2*1080P@30fps (IPC)                                 |
| Video output       |  | 1-channel AHD                                                                   |
| Audio input        |  | 4Ch AHD + 2Ch IPC                                                               |

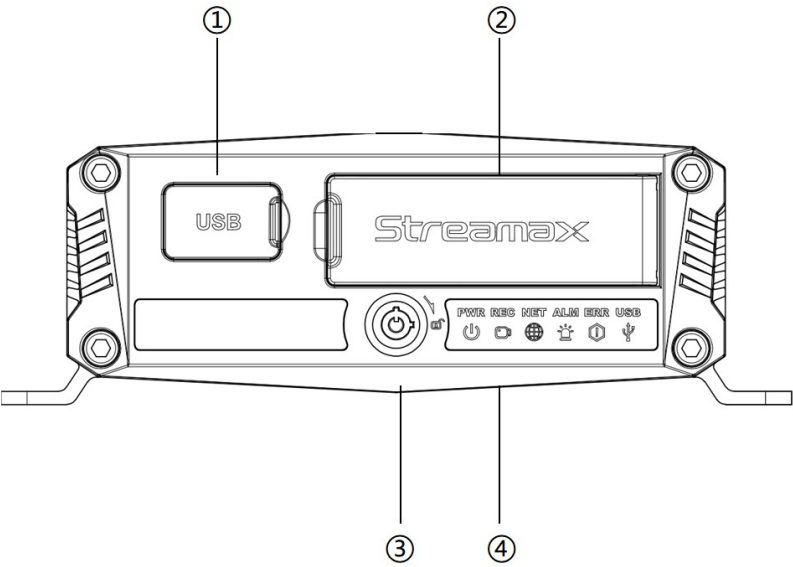
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|--------------------------|-----------------------------------------------------------------------------------|
| Audio output             | 1Ch                                                                               |
| USB                      | Front Type-A connector USB2.0                                                     |
| Micro SD                 | 2 Micro SD ports                                                                  |
| SSD                      | 1*M.2 SATA SSD 、 Supports heating                                                 |
| SIM Card                 | 1*SIM physical card slot, optional support for digital SIM c<br>eSIM              |
| I/O                      | 8* IN, 2*Out                                                                      |
| Serial port              | 2*RS232, 1*RS485                                                                  |
| IR                       | Support                                                                           |
| AI                       | Supports built-in 2CH (ADAS, DMS, BSD)                                            |
| CAN                      | 2*CAN_FD                                                                          |
| Speed                    | Support                                                                           |
| Driver Inf. Interface    | Support 1CH driver information identification interface, can<br>docked lbutton    |
| Power Supply             |                                                                                   |
| Power Input              | DC 9~36V                                                                          |
| Power Consumption        | Host bare metal power consumption <10W, typical operati<br>power consumption <40W |
| Physical Characteristics |                                                                                   |
| Dimensions               | 154*151*52mm                                                                      |
| Weights                  | 1.7Kg                                                                             |
| Working Environment      |                                                                                   |
| Operating temperature    | -30°C ~ +70°C                                                                     |
| Storage temperature      | -40°C ~ +70°C                                                                     |

**Product Dimensions (mm)**



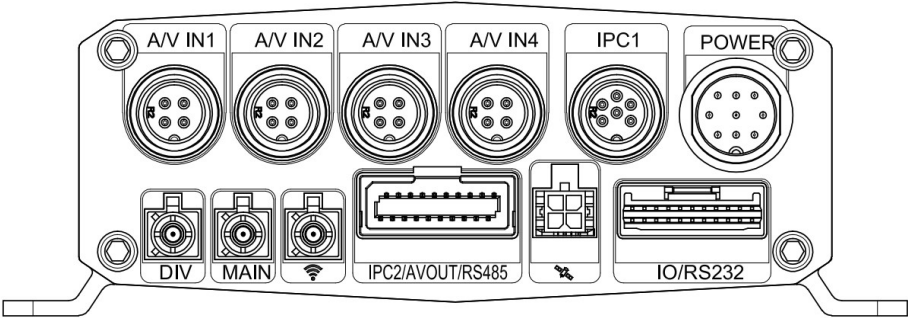


Panel interface



Front Panel Interface

- ① USB2.0 interface
- ② Storage interface: 2\*Micro SD+1\*M.2 SATA SSD  
Communication interface: 1\*SIM card slot
- ③ Hard disk lock
- ④ LED status indicator



Rear Panel Interface

- |           |                                        |
|-----------|----------------------------------------|
| POWER     | Power Input Connector(Contains 1*CAN1) |
| IPC1      | IPC1                                   |
| A/V IN1-4 | AHD1~AHD4                              |

IO/RS232

External IO/RS232 interface



GNSS positioning interface

IPC2/AVOUT/RS485

External IPC2/HD video output, RS485 interface



WIFI communication interface

MAIN

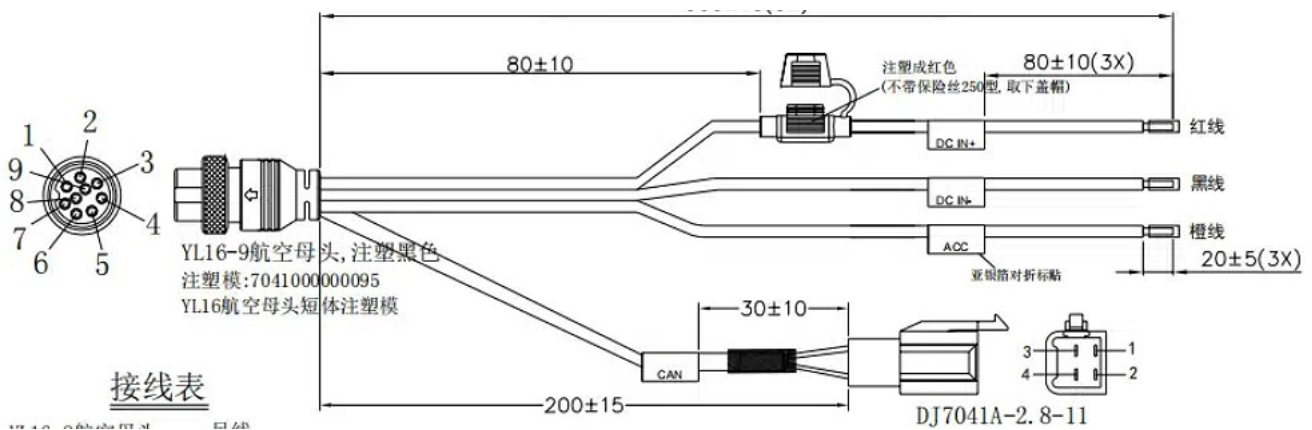
4G/3G Main Antenna

DIV

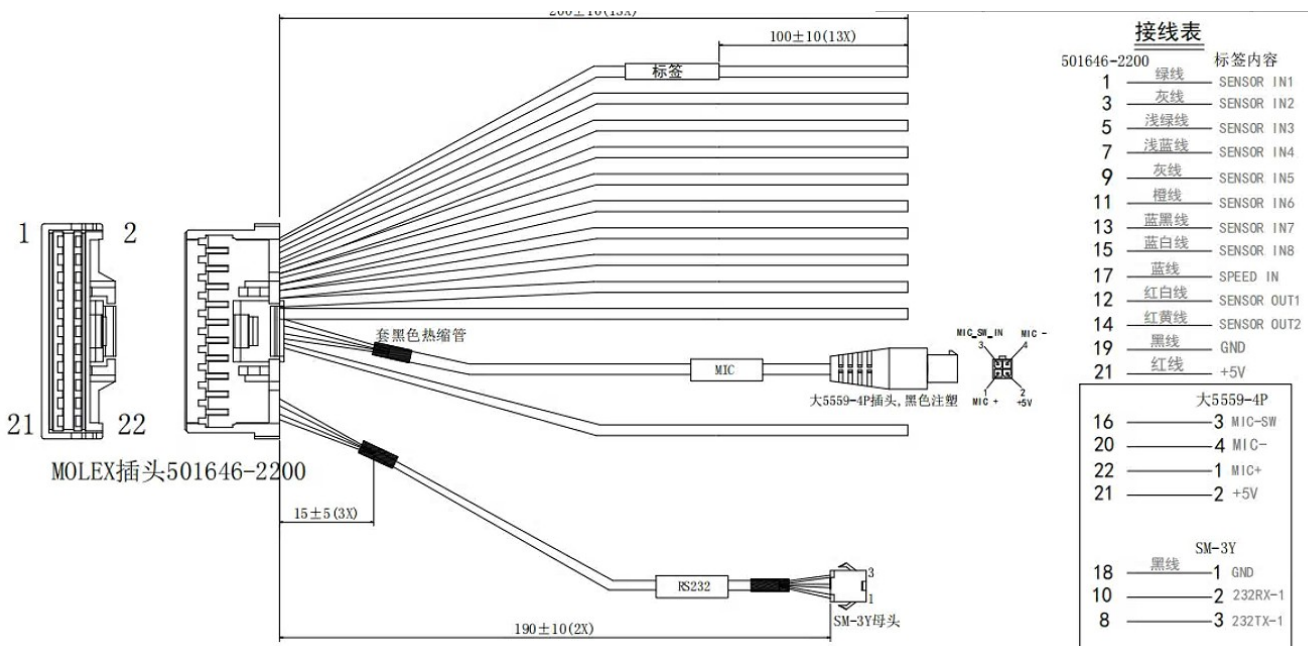
4G/3G Diversity antenna(Optional)

## Cable Definition

### POWER Interface Cable(standard)



### IO/RS232 interface cable (optional)



## IPC2/AVOUT/RS485 interface cable(optional)

