
MDVR-M1N 2.0-H0402

Streamax



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,

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.

high-precision quick-release connectors support quick disengagement for easy installation and maintenance;

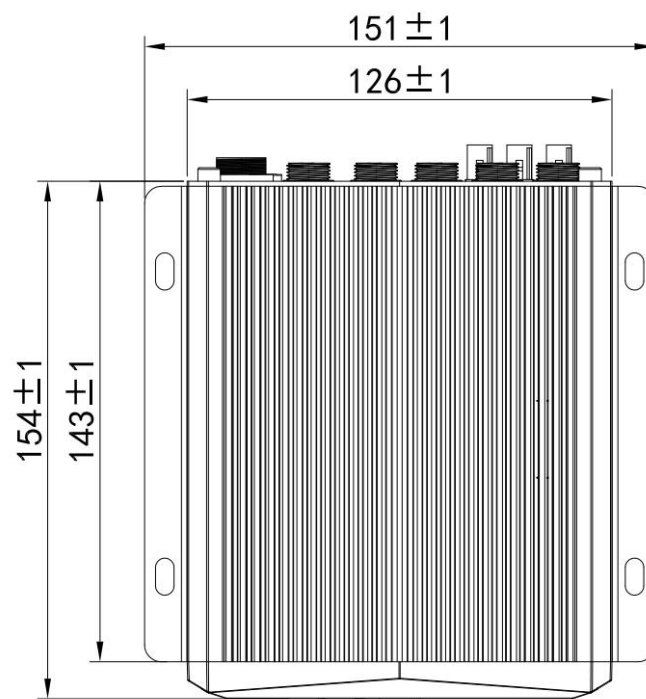
- High-speed processor and powerful neural network inference engine with built-in AI;
- Supports 2Ch Micro SD , up to 2*512G; additional support for 1*M.2 SSD storage, up to 1*2TB
- The whole system adopts mechanical vibration reduction, electronic vibration prevention and software vibration prevention,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

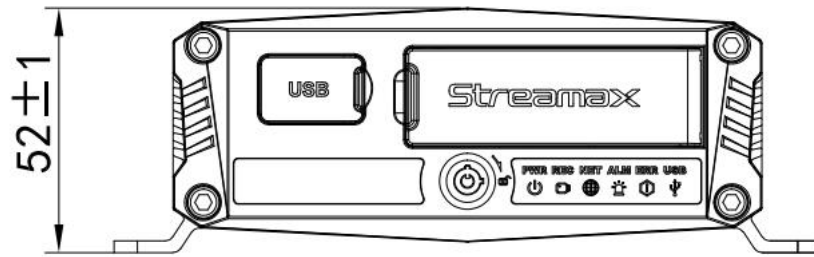
Product Specifications

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	

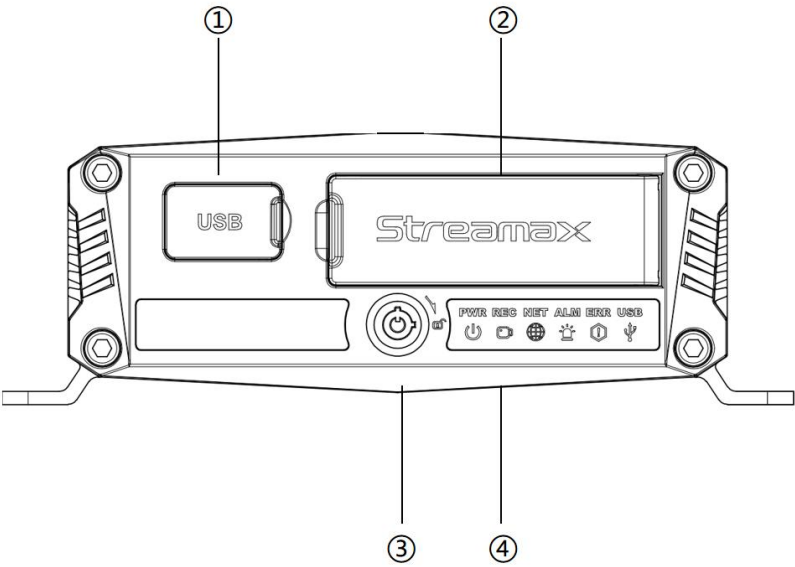
Audio output	1Ch
USB	Front Type-A connector USB2.0
Micro SD	2 Micro SD ports
SSD	1*M.2 SATA SSD、 Supports heating
SIM Card	1*SIM physical card slot, optional support for digital SIM card eSIM
I/O	8* IN, 2*Out
Serial port	2*RS232, 1*RS485
IR	Support
AI	Supports built-in 2CH (ADAS, DMS, BSD)
CAN	2*CAN_FD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

Product Dimensions (mm)



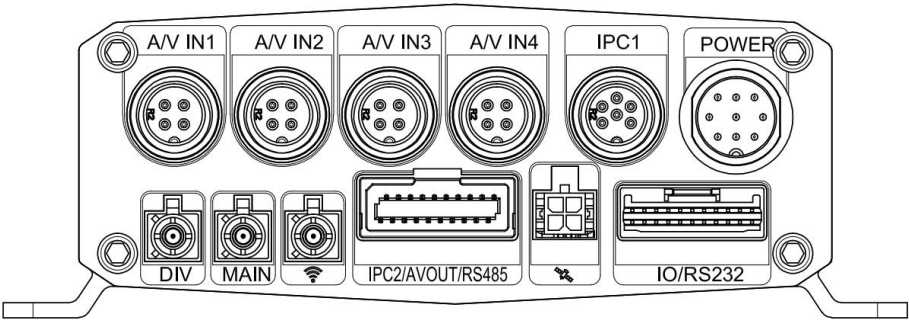


Panel interface



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

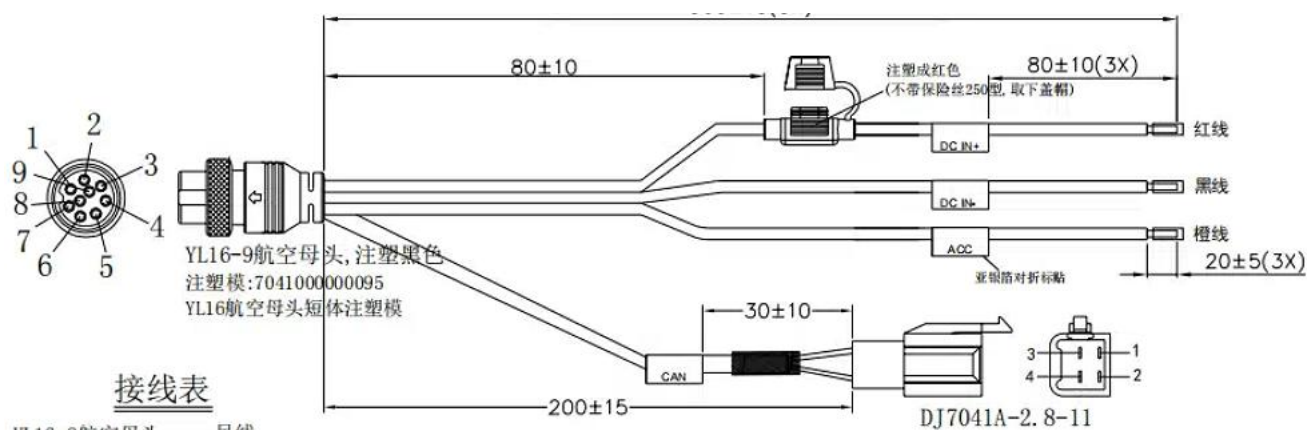
4G/3G Main Antenna

DIV

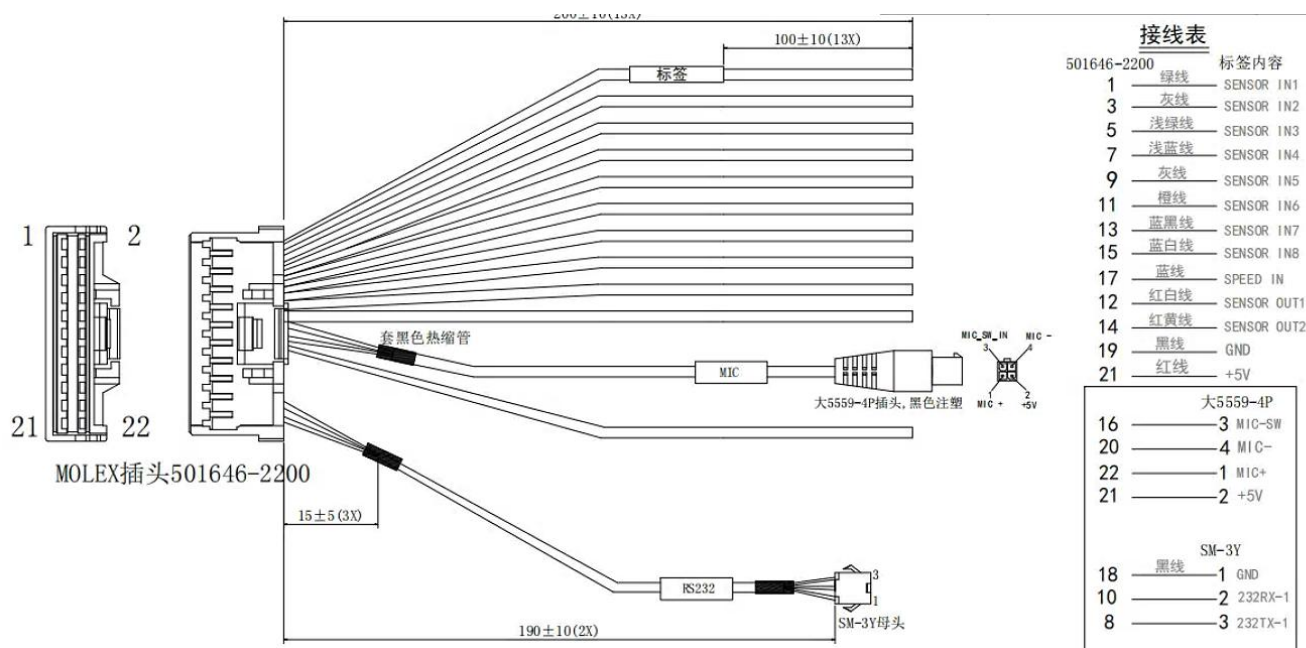
4G/3G Diversity antenna(Optional)

Cable Definition

POWER Interface Cable(standard)



IO/RS232 interface cable (standard)



IPC2/AVOUT/RS485 interface cable(optional)

