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XMR -SERIES-

Products Introduction

XMR406NAHD 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 ban d quad constellation global GNSS positioning system at the same time.

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 drivi ng and reduce pedestrian vehicle traffic accidents

At the same time, XMR406NAHD 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 instal led.
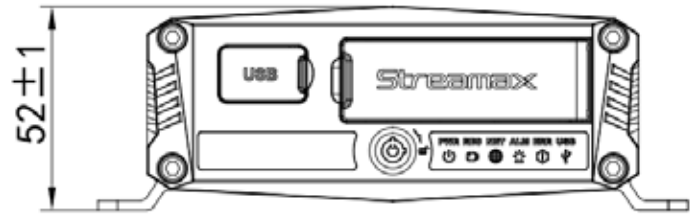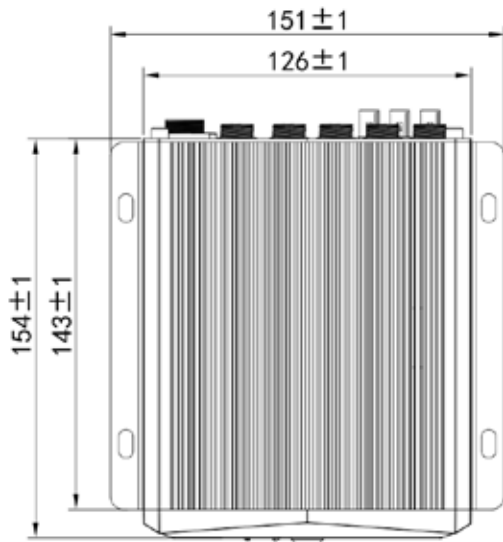
Product Advantages

• 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 precision quick release connectors support quick disengagemen t 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	XMR406NAHD
Technical item	Technical indicators
Basic Parameters	
RAM	1GB
ROM	8GB
Operating system	Linux
3G/4G	TDD LTE/FDD LTE/EVDO/TD SCDMA/WCDMA
Extended support	Main and diversity antennas
WIFI	Not supported
Localization	Support GPS/BDS/GALILEO/GLONASS
Storage	Support 2Micro SD card, Up to 2512GB. Support 1M.2 SATA SSD, Up to 12TB.
Transducers	Supports 6-axis accelerometers
Interface Function	
Video input	4Ch AHD + 2Ch IPC (Maximum resolution support 1080P)
Codecs	Full HD real-time full frame encoding with the following encoding capabilities: PAL: 41080P@25fps (AHD) + 21080P@30fps (IPC), NTSC: 41080P@30fps (AHD) + 21080P@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	2RS232, 1RS485
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 Ibutton
Power Supply	
Power Input	DC 9~36V
Power Consumption	Host bare metal power consumption <10W, typical operating power consumption <40W
Physical Characteristics	
Dimensions	15415152mm
Weights	1.7Kg
Working Environment	
Operating temperature	-40 ~ +70 °C
Storage temperature	-40 ~ +85 °C

Product Dimensions (mm)

151±1
126±1
154±1
143±1
52±1

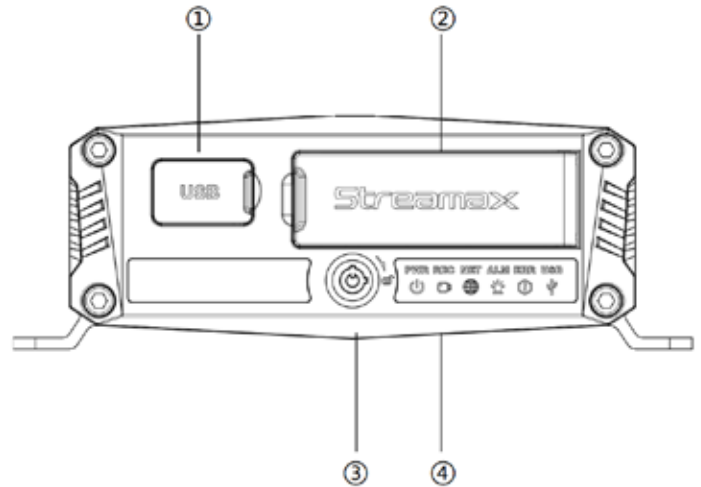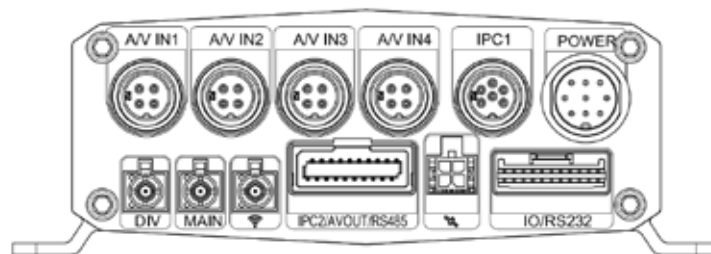**Panel interface**

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
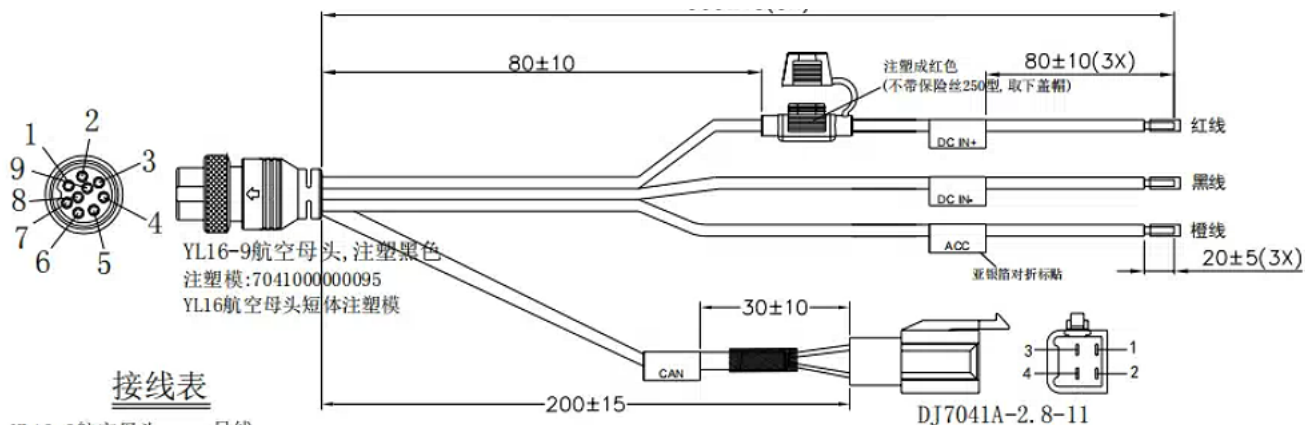4. LED status indicator
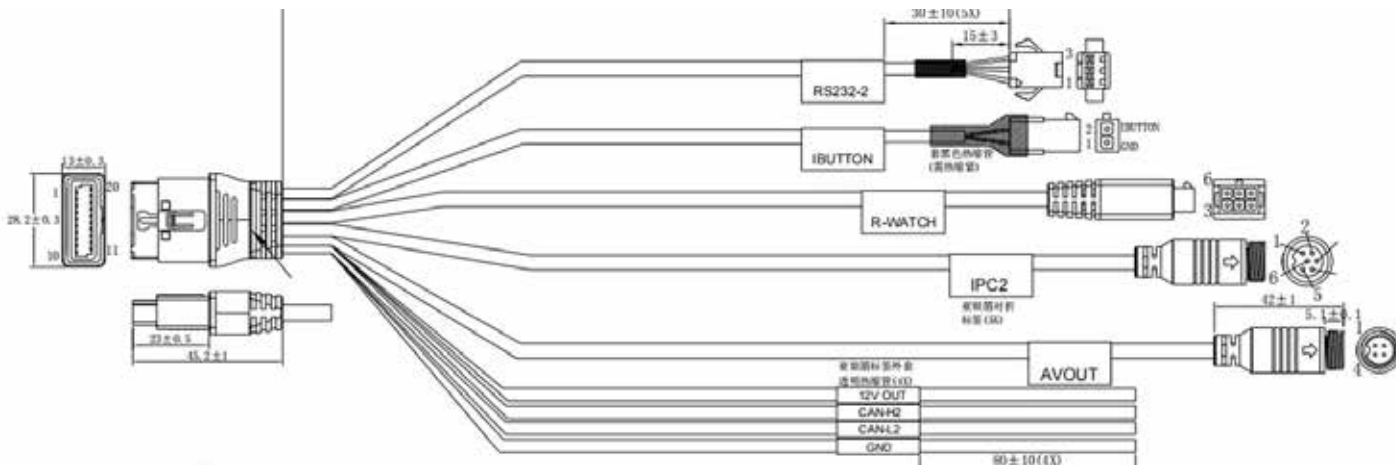

Rear Panel Interface

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
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)