



Products Introduction

F6N 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.

The product has a powerful video access and encoding capabilities, maximum support for 4Ch AHD and 1Ch IPC . Can simultaneously support 5Ch 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.

The product is built-in powerful NPU processing capability, which can support the built-in AI computing, and can fully cover the driving behavior analysis system.

Product Advantages

- Support 4Ch AHD, 1Ch IPC input;
- Only Recording, Full HD 5Ch 1080P@30fps real-time full frame encoding;
- Support CVBS and VGA output;
- Supports digital SIM card technology (eSIM), which is more resistant to temperature and vibration;
- Support GPS/BDS/GALILEO/GLONASS, more accurate positioning; external waterproof antenna with IP67 rating
- External interface automotive-grade, high-precision quick-release connectors , support quick disengagement for easy installation and maintenance;
- High-speed processor and powerful neural

At the same time, the F6N has a strong anti-interference ability in the vehicle environment, the product meets the ISO16750, ISO7637 vehicle test standards, to meet the use of different vehicle types installed.

network inference engine with built-in AI

- Supports Dual Micro SD cards, Up to 2*512GB;
- 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

F6N-H0401

Technical item

Technical indicators

Basic Parameters

RAM	1GB
ROM	8GB
Operating system	Linux
3G/4G	TDD-LTE/FDD-LTE/EVDO/TD-SCDMA/WCDMA External antenna, on-board Fakra antenna interface
WIFI	WIFI5 support, 802.11b/g/n/ac (optional) built-in antenna
Localization	Support GPS/BDS/GALILEO/GLONASS quad constellations multi-band positioning External antenna, on-board Fakra antenna interface
Storage	Supports Dual Micro SD cards, Up to 2*512GB
Transducers	Supports 6-axis accelerometers

Interface Function

Video input	4Ch AHD + 1Ch IPC (Maximum resolution support 1080P) Full HD real-time full frame encoding with the following encoding capabilities:
Codecs	PAL: 4*1080P@25fps (AHD) + 1*1080P@30fps (IPC) NTSC: 4*1080P@30fps (AHD) + 1*1080P@30fps (IPC)
Video output	1-channel VGA , 1-channel CVBS

Audio input	4Ch AHD + 1Ch IPC
Audio output	1Ch
USB	Front Type-A connector USB2.0
Micro SD	2 Micro SD ports
SIM card	1*SIM physical card slot, optional support for digital SIM card eSIM
I/O	4* IN, 1*Out
Serial port	1*RS232, 1*RS485
IR	Support
AI	Streamax AHD camera CA29P (DMS)
CAN	unsupported
Speed	unsupported

Power Supply

Power Input	DC 9~36V
Power Consumption	Host bare metal power consumption <10W, typical operating power consumption <35W

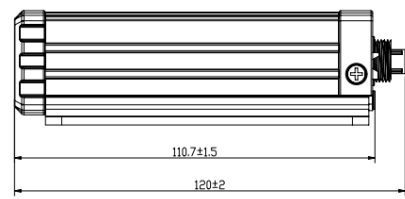
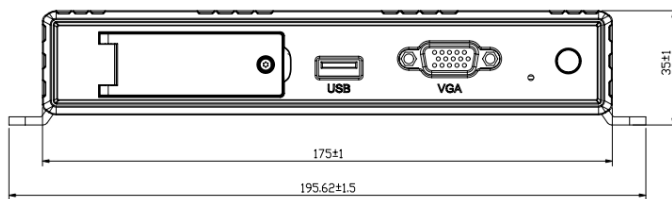
Physical Characteristics

Dimensions	195.6*120*35mm
Weights	About 0.8Kg

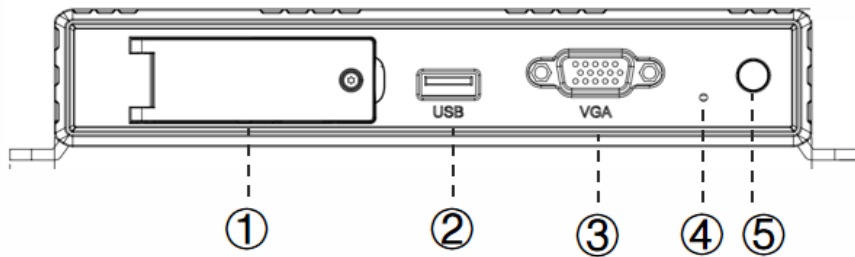
Working Environment

Operating temperature	-40°C ~ +70°C
Storage temperature	-40°C ~ +85°C

Product Dimensions (mm)

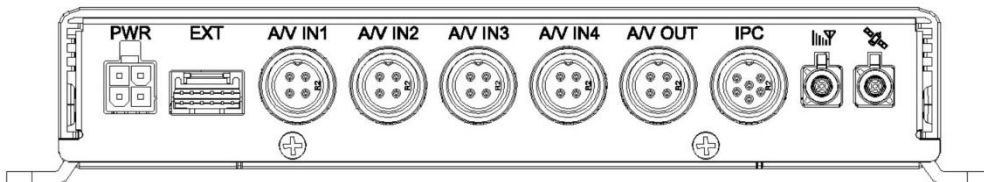


Panel interface





Front Panel Interface

- ① Storage interface: 2*Micro SD
Communication interface: 1*SIM card slot
- ② USB2.0 interface
- ③ VGA High Definition Output
- ④ LED indicators (blue: power light red: error light)
- ⑤ Remote Control Receiver Window



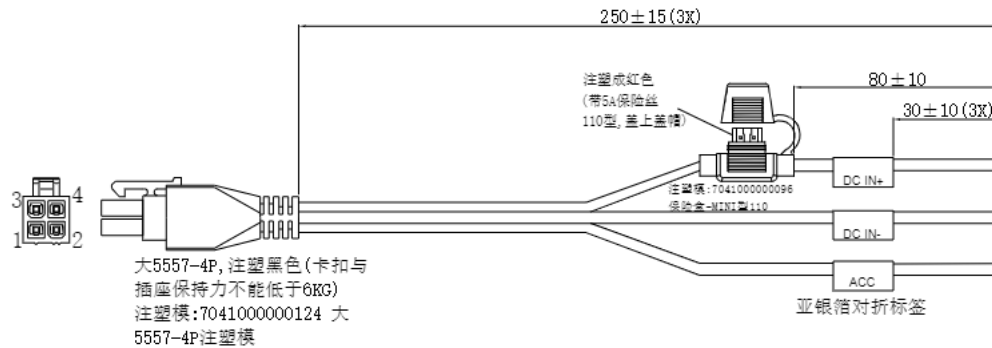
Rear panel

Rear Panel Interface

- PWR Power Input Connector
- EXT Peripheral interface
- A/V IN1-4 Analog high-definition audio and video input connectors
- A/V OUT Audio/Video Output Interface
- IPC Digital HD Audio/Video Input Interface
-  GNSS positioning interface
-  4G/3G communication interface

Cable Definition

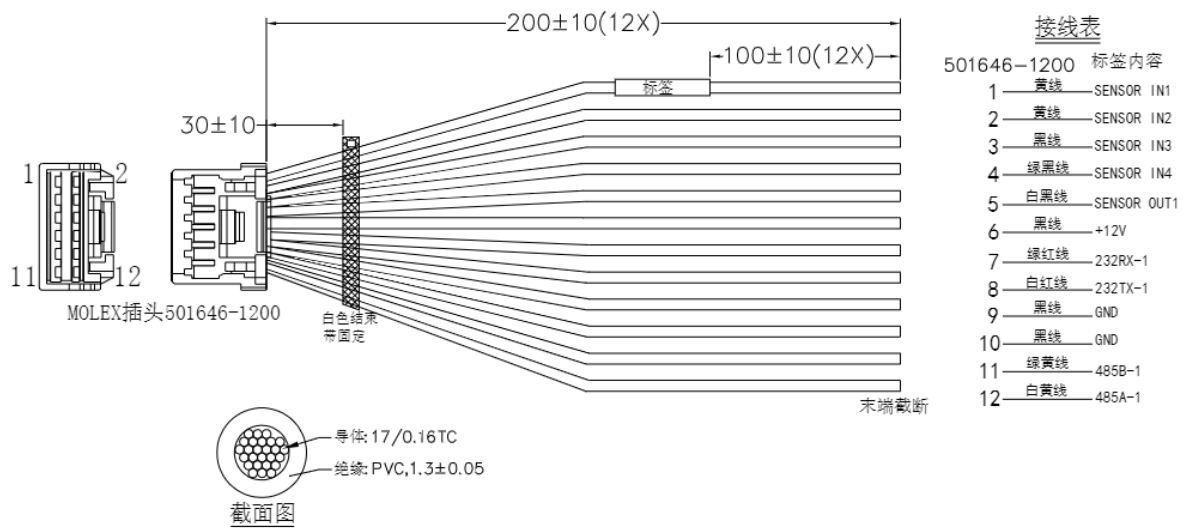
POWER Interface Cable



接线表

大5557-4P	吊线	
3	5A保险丝	红线 (DC IN+) — UL1015 20AWG (阻燃VW-1)
4		黑线 (DC IN-) — UL1015 20AWG (阻燃VW-1)
2		黄线 (ACC) — UL1015 20AWG (阻燃VW-1)

EXT Interface Cable



Q&A

MDVR Fails to Start

- ◇ Check the input power supply of the device by checking whether the power cable is correctly connected,

whether the ground cable is connected to the battery, and whether the fuse in the power cable is intact.

- ✧ Check whether the ACC signal cable of the power supply device has a voltage (greater than 7 V).
- ✧ Check whether the key on the device is switched off.

MDVR Keeps Restarting

- ✧ Check whether the voltage is too low to start the device, causing the device to randomly restart.
- ✧ Hard disk/SD card failures may cause device startup failure. Remove the storage unit and turn on the device again to determine whether the storage unit is faulty.

Video Recording Does Not Work

- ✧ Check whether a storage unit is installed and in good contact and whether the storage unit can read data normally when connecting to a computer.
- ✧ The storage unit is not formatted. After the storage unit is inserted into our device, it needs to be formatted to perform normal data storage.
- ✧ Check whether there is a video signal input from the camera to the MDVR and whether there is a video image shown on the live view screen.

Video Files Have No Sound

- ✧ Check whether there is an external pickup connected or whether the camera features audio acquisition.
- ✧ Access the video channel settings and check whether the audio option is enabled.
- ✧ The channel that realizes the sound recording function must have video input and can perform video recording normally.

GPS Abnormality

- ✧ Check whether the GPS antenna is correctly installed and whether there is a GPS silk screen on the GPS antenna pedestal on the back of the MDVR.
- ✧ Check whether the antenna receiver is blocked. The antenna receiver must not be covered, or else signal reception failure may occur as a result.
- ✧ The impacts caused by surrounding environments such as tree shelters, tunnels, driving near tall buildings

and overpasses, thunderstorm weather, etc. may cause GPS signal loss or GPS to receive the wrong signal.

Device Cannot Be Shut Down in the Ignition Startup & Shutdown Mode

- ✧ Check whether the ACC signal cable connection is correct and whether there is no voltage on the ACC yellow line after the key is switched off.
- ✧ If the Timing Video Record is enabled and the current time has not exceeded the limit set in the recording time task table, the device cannot be shut down.