



MOSS-AHD-DVR-SD/HD1086



Products Introduction

MOSS-AHD-DVR-SD/HD1086 is a multifunctional in-vehicle intelligent terminal composed of storage module, encoding module, communication and power module, with the integration of in-vehicle video monitoring, platform remote video monitoring, and driver behavior analysis.

It has a powerful video access and encoding capabilities, maximum support for 4Ch AHD and 2Ch IPC. Able to 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 wireless communication capability, supporting 4G high-speed network, WIFI wireless network, and GPS/BDS/GALILEO/GLONASS multi-band quad-constellation global GNSS positioning system.

Product Features

- Supports 4Ch AHD and 2Ch IPC.
- Full HD 6Ch 1080P@30fps real-time full-frame encoding in video.
- 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 disengagement for easy maintenance.

Includes a 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.

- 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 (optional)
- The system adopts mechanical vibration reduction, electronic vibration prevention and software vibration prevention, a combination of three comprehensive vibration reduction technologies.

Product Specifications

Product Model			MOSS-AHD-DVR-SD/HD1086
Basic Parameters			
	RAM		1GB
	ROM		8GB
	Operating system		Linux
	4G		TDD-LTE/FDD-LTE/EVDO/TD-SCDMA/WCDMA Extended support for main and diversity antennas
	WIFI		
	Localization		Support GPS/BDS/GALILEO/GLONASS
	Storage		Support 2*Micro SD card, Up to 2*512GB Support 1*M.2 SATA SSD, Up to 1*2TB.
	Transducers		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 Interface	Support 1CH driver information identification interface lbutton

Power Supply

Power Input	DC 9~36V
Power Consumption	Host bare metal power consumption <10W, typical operating power consumption <40W

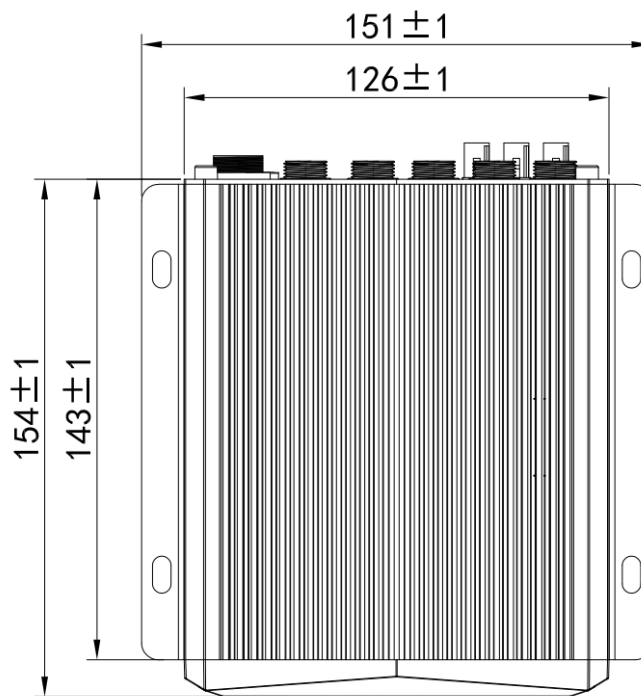
Physical Characteristics

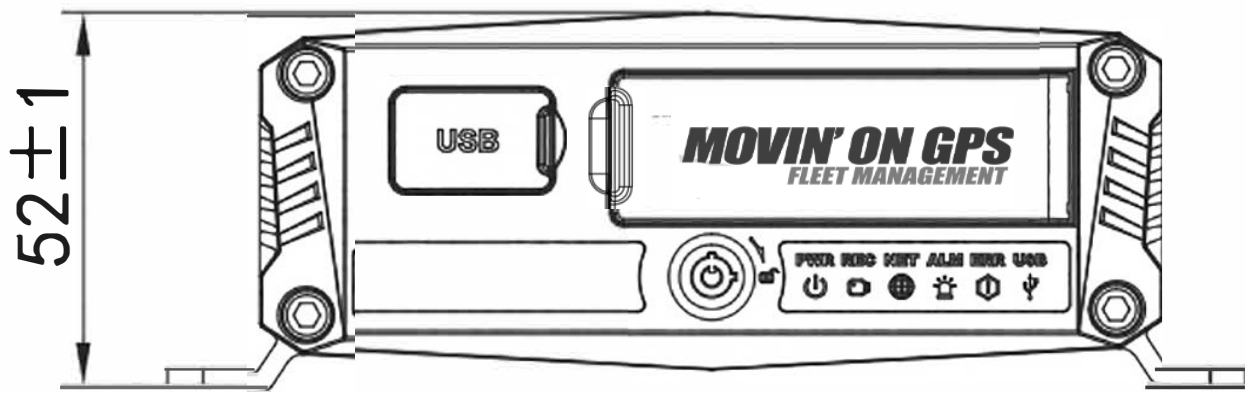
Dimensions	154*151*52mm
Weights	1.7Kg

Working Environment

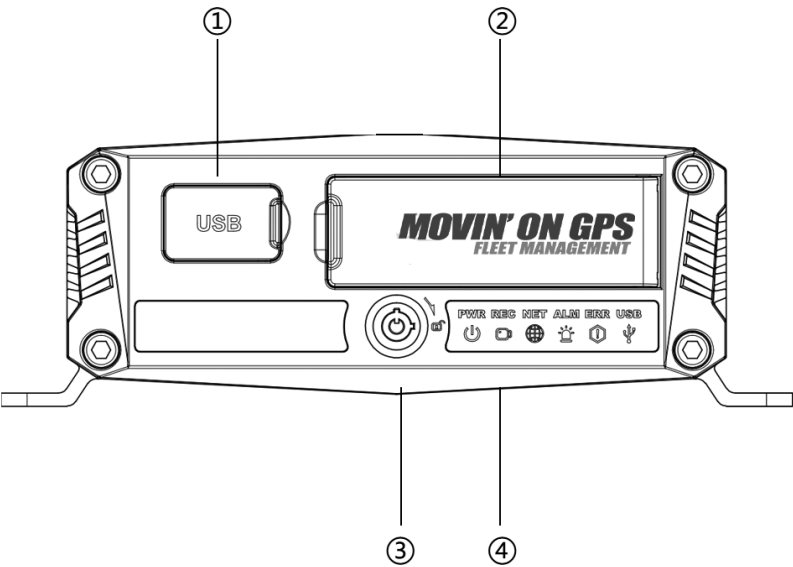
Operating temperature	-40F ~ +158F
Storage temperature	-40F ~ +185F

Product Dimensions (mm)



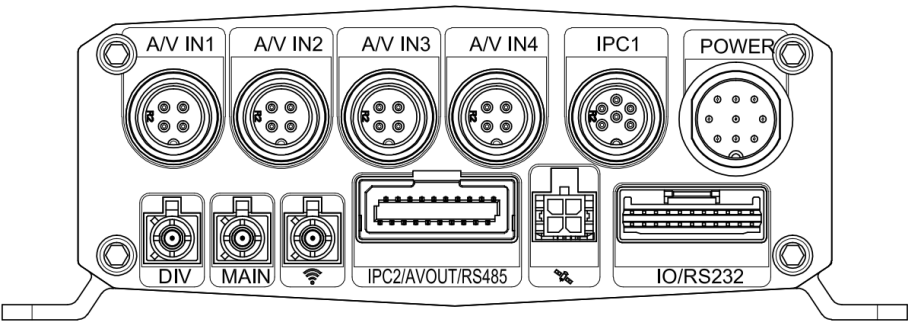


Panel interface



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



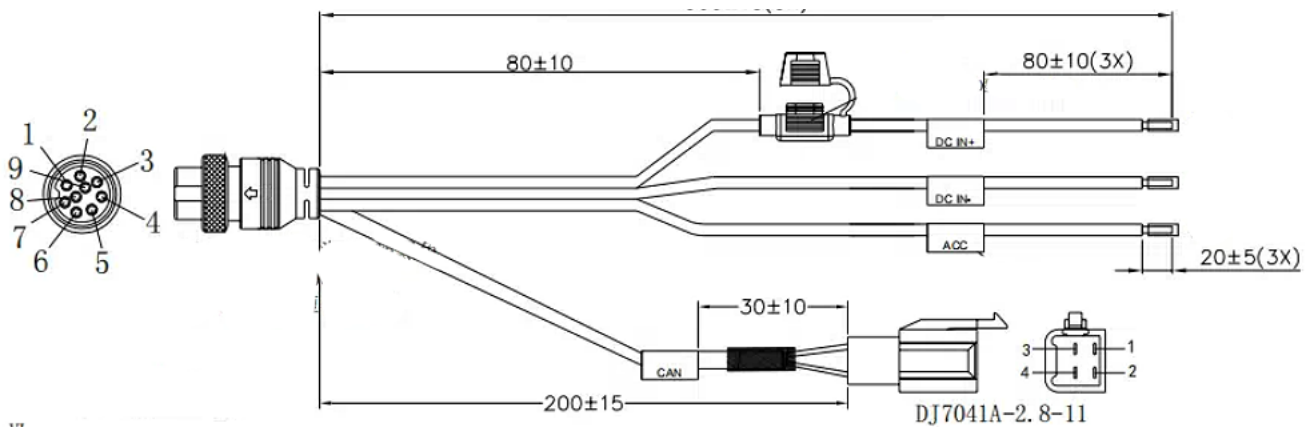
WIFI communication interface

MAIN

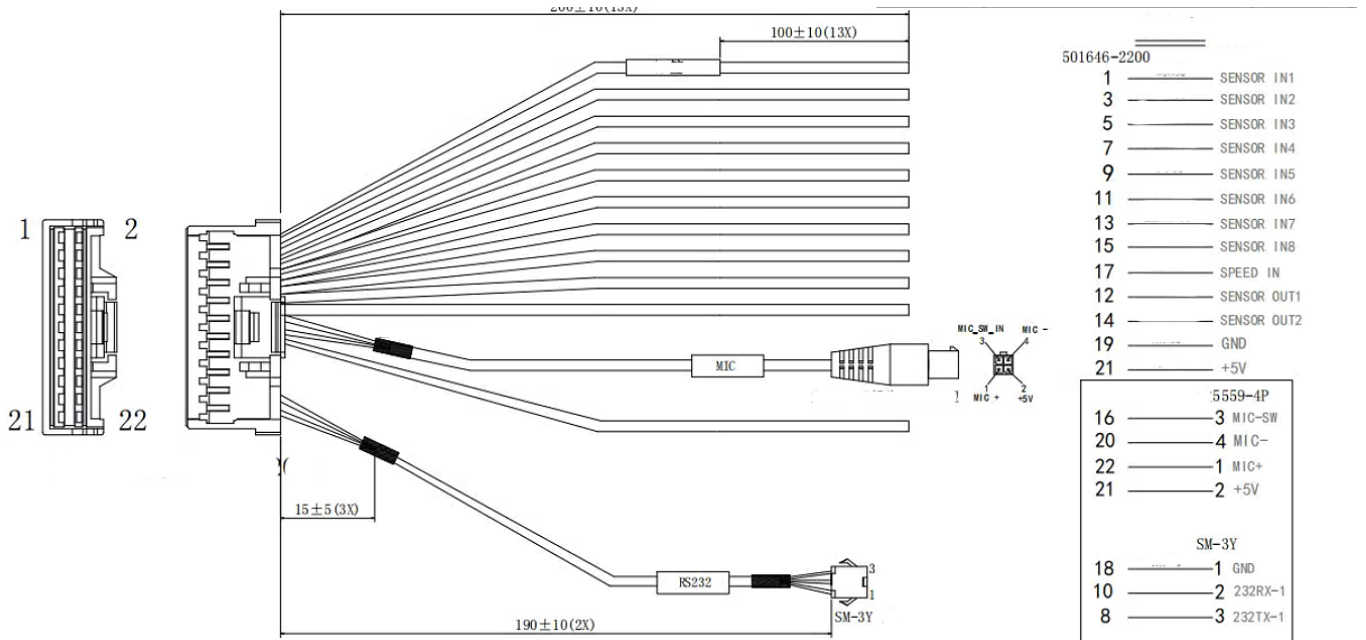
4G Main Antenna

Cable Definition

POWER Interface Cable(standard)



IO/RS232 interface cable (optional)



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IPC2/AVOUT/RS485 interface cable(optional)

