

Mobile Digital Video Recorder



SPECS

 1.7Kg

 154 x 151 x 52 mm

 -40°C ~+70°C

Overview

Multifunctional in-vehicle intelligent terminal integrating video storage, encoding, communication, and power modules for onboard and remote video monitoring and driver behavior analysis.

Supports up to 4 AHD and 2 IPC channels, enabling 6-channel 1080P at 30fps full HD real-time encoding and recording with no frame loss for superior video quality.

Built-in rich wireless communication capability, supporting 4G/3G high-speed network, Wi-Fi wireless network, and GPS/BDS/GALILEO/GLONASS multi-band quad-constellation global GNSS positioning system.

Equipped with a powerful NPU and AI algorithms, the device supports two built-in AI channels for ADAS, DMS, and BSD, enhancing driver safety and reducing pedestrian-vehicle accidents.

Features strong anti-interference performance and meets ISO16750 and ISO7637 standards, ensuring reliable operation across various vehicle types.

Features

- 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 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
- Rich peripheral interfaces

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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 Extended support for main and diversity antennas
WIFI	WIFI5 support, 802.11b/g/n/ac compliant (optional)
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)
Codecs	Full HD real-time full frame encoding with the following encoding capabilities: 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 button
Power Supply	
Power Input	DC 9 ~ 36V
Power Consumption	Host bare metal power consumption <10W, typical operating power consumption <40W
Physical Characteristics	
Dimensions	154 x 151 x 52mm
Weights	1.7Kg
Working Environment	
Operating temperature	-40°C ~ +70°C
Storage temperature	40°C ~ +85°C