

Multichannel Mobile Video Recorder

6 Channel (2xIPC + 4xAHD) Recorder

Part number: AEX-ST-DVR-M2 (hard drive only), AEX-ST-DVR-M24W (4G & Wi-Fi)

PRODUCT INTRODUCTION

Our M2 DVR is a multifunctional in-vehicle intelligent terminal composed of a storage module, encoding module, communication and power module, with the integration of in-vehicle video monitoring, platform remote video monitoring, and driver behaviour analysis.

It has powerful video encoding capabilities, with maximum support for 4 Channels AHD and 2 Channels IP Camera (IPC). It can simultaneously support all 6 Channels at 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 high-speed network, Wi-Fi wireless networking, and GPS/BDS/GALILEO/GLONASS multi-band quad-constellation global GNSS positioning system at the same time.

Our DVR has built-in powerful NPU processing capabilities, based on AI algorithms, and can support 2 Channels with built-in AI, which can fully cover Advanced Driver Assistance System (ADAS), Driver Monitoring System (DMS), Blind Spot Detection (BSD). This can effectively improve driver safety and reduce pedestrian-vehicle traffic accidents.

At the same time, the M2 has a strong electronic interference reduction which meets the ISO16750, ISO7637 vehicle test standards, to allow the use of the device in various vehicle types.

PRODUCT FEATURES

- Supports 4 Channels AHD and 2 Channels IPC
- Full HD 6Ch 1080P@30fps real-time full-frame video encoding
- Supports AHD HD video output and CVBS video output
- Optional support for digital SIM card technology (eSIM), extended support for main and hierarchical antennas for increased 4G signal bandwidth
- 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 2x Micro SD, up to 2x 512gb; additional support for 1x M.2 SATA SSD storage, up to 1x 2TB
- The whole system adopts mechanical vibration reduction, electronic vibration prevention and software vibration prevention, a combination of three comprehensive vibration reduction technologies minimizes internal mechanical wear and tear.



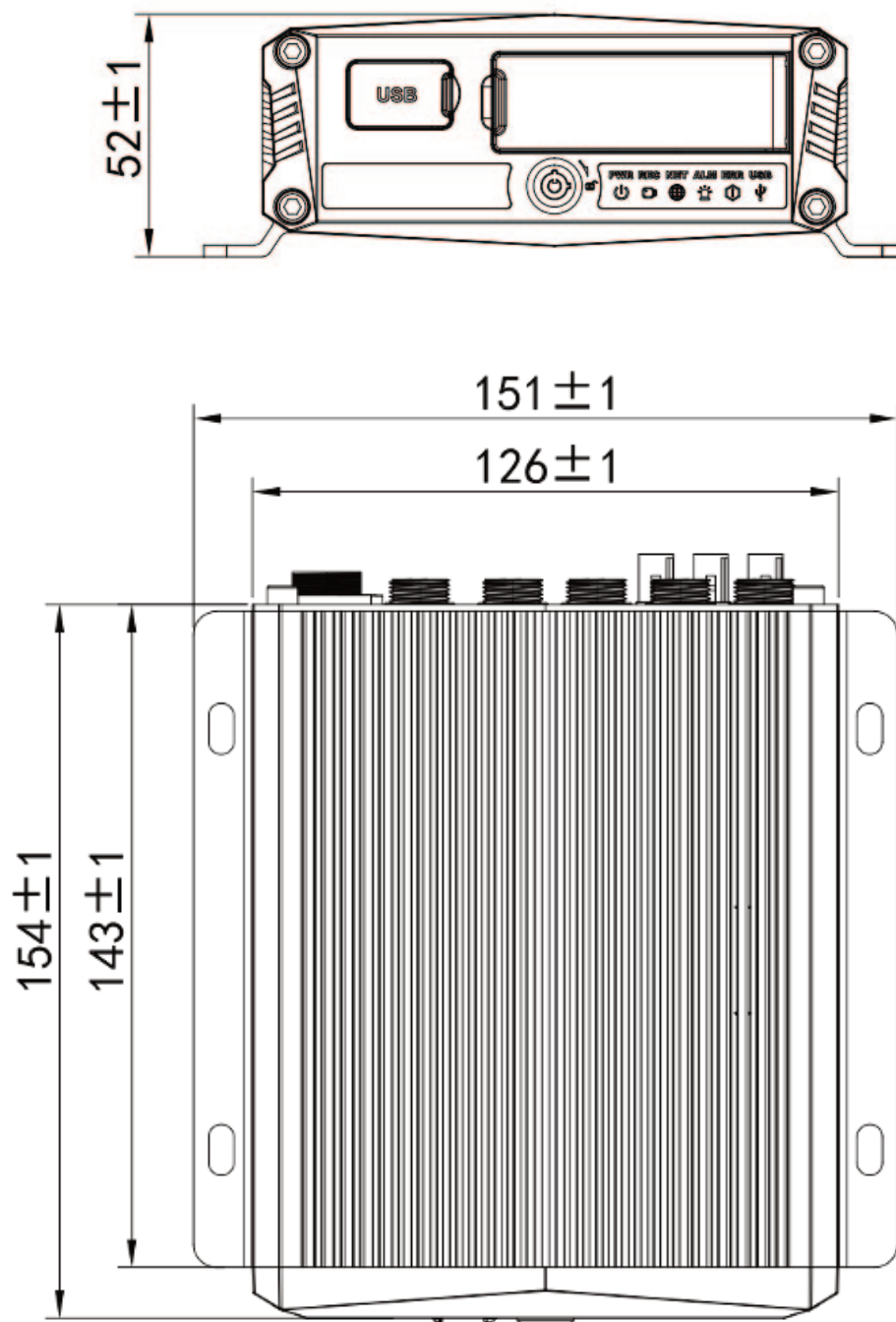
6 Channel (2xIPC + 4xAHD) Recorder AEX-ST-DVR-M2

Specification

MODEL		AEX-ST-DVR-M2
Basic Parameters	RAM	1GB
	ROM	8GB
	Operating System	Linux
	3G/4G	TDD-LTE/FDD-LTE/EVDO/TD-SCDMA/WCDMA Extended support for 2 hierarchical antennas (optional)
	Wi-Fi	WiFi5 support, 802.11b/g/n/ac compliant (optional)
	Localisation	Support GPS/BDS/GALILEO/GLONASS
	Storage	Support 2 x Micro SD card, up to 2 x 512GB Support 1 x M.2 SATA SSD, up to 1 x 2TB
	Transducers	Supports 6-axis accelerometers
Interface Function	Video Input	4 Channels AHD + 2 Channels IPC (maximum resolution support 1080P)
	Codecs	Full HD real-time full frame encoding with the following encoding capabilities: PAL: 4 x 1080P@25fps (AHD) + 2 x 1080P@30fps (IPC) NTSC: 4 x 1080P@30fps (AHD) + 2 x 1080P@30fps (IPC)
	Video Output	1 Channel AHD or CVBS
	Audio Input	4 Channels AHD + 2 Channels IPC
	Audio Output	1 Channel with video output
	USB	Front Type-A connector USB2.0
	Micro SD	2 x Micro SD ports
	SSD	1 x M.2 SARA, SSD, up to 2TB
	SIM Card	1*SIM physical card slot, optional support for digital SIM card eSIM
	I/O	8 x Inputs, 2 x Outputs (optional)
	Serial Port	2 x RS232, 1 x RS485 (can be expanded)
	IR	Support
	AI	Supports built-in 2 Channel (ADAS, DMS, BSD)
	CAN	2 x CAN_FD
	Speed	GPS speed or speed pulse input
	Driver Inf. Interface	W217 module. Supported protocol: 802.11a/b/g/n/ac Supported frequency band: 2.4/5.0 GHz
Power Supply	Power Input	DC 9-36V
	Power Consumption	Host bare metal power consumption <10W, typical operating power consumption <40W
Physical Characteristics	Dimension	154 x 151 x 52mm
	Weight	1.7kg
Working Environment	Operating Temperature	-40°C - +70°C
	Storage Temperature	-40°C - +85°C

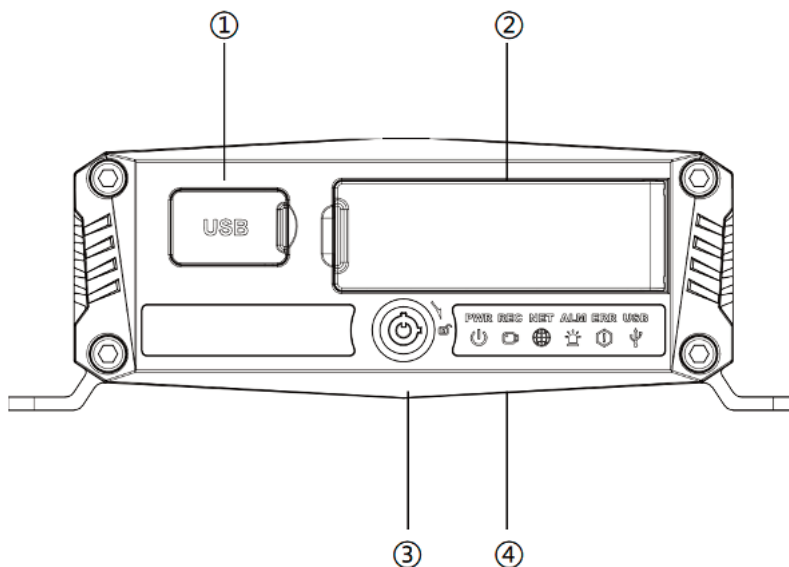
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Dimensions

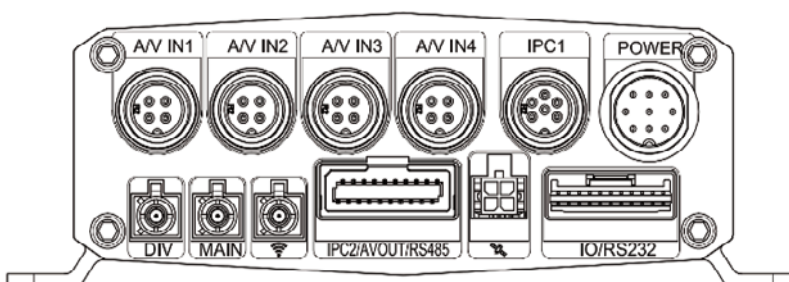




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Device Interface Legend


Front Panel Interface

1	USB2.0 interface
2	Storage interface: 2 x Micro SD + 1 x M.2 SATA SSD
3	Hard disk lock
4	LED status indicator

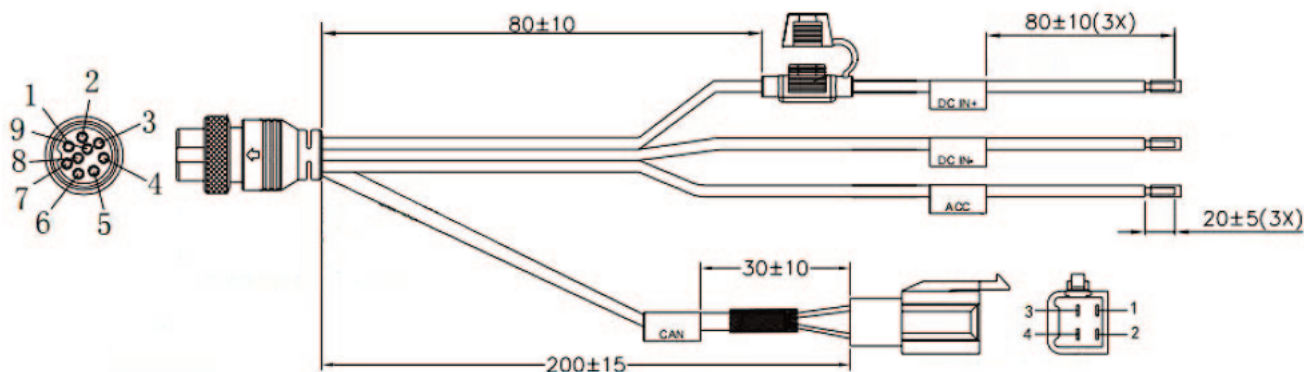

Rear Panel Interface

POWER	Power Input Connector (Contains 1 CAN input)
IPC1	IPC1
A/V IN 1-4	AHD1-AHD4
ISO/RS232	External IO/RS232 interface (optional)
	GNSS positioning interface
IPC2/AVOUT/RS485	External IPC2/HD video output, RS485 expansion (optional)
	Wi-Fi communication interface
MAIN	4G main antenna
DIV	4G bandwidth diversity antenna (optional)

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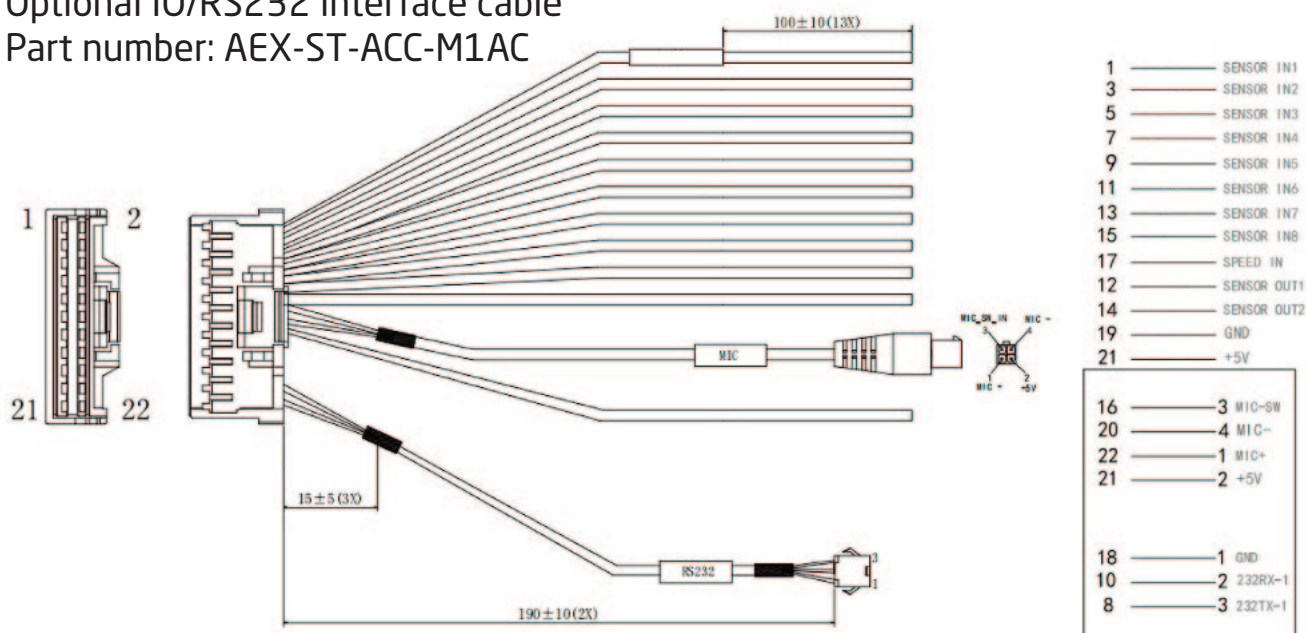
Cable Definition

Power Cable (included as standard)



Optional IO/RS232 interface cable

Part number: AEX-ST-ACC-M1AC



Optional IPC2/AVOUT/RS485 expansion cable

Part number: AEX-ST-ACC-M2

