AE-MN5083(RJ45)
8-ch , H.264/H.265, 1 x HDD/SSD Mobile NVR



AE-MN5083 series NVR is a professional solution to vehicle video and audio management with built-in Linux operating system. It supports CVBS video and audio output, featuring HD encoding/decoding, transmission based on 4G wireless network, satellite positioning, secure data storage, HDD vibration absorber, alarm input/output, driving information collecting and ports added for peripheral devices. It provides camera selection and coding solutions specialized in video and audio recording management for public transports, school buses, taxis, learner-driven vehicles, trucks, etc.

- 8-ch IP cameras connectable via PoE interfaces
- Up to 2MP resolution of H.264/H.265 compression for each IP camera.
- User-friendly GUI providing easy and flexible operations.
- Pluggable 2.5 inch HDD/SSD, SSD up to 4 TB,HDD up to 2TB
- Pluggable 4G module and Wi-Fi module providing flexible data transmission solutions.
- Built-in GPS module precisely positioning the vehicle via the satellite and recording the location information in the video stream.
- Information collection interfaces collecting driving information such as left/right turn, braking, reversing, etc.
- Specialized aviation connectors ensuring signal stability.
- Shutdown delay (0 h to 6 h) and 24-hour scheduled startup/shutdown.
- Build-in super-capacitor prevents the mobile NVR from damage caused by sudden power outage.
- Wide-range power input (+9 VDC to +36 VDC).
- Power-off protection prevents key data loss.
- Aluminum die-cast chassis with no fan design well adaptable to working environment.
- Software-based firewall supported.
- Support accessing via WEB browser.

▪ Specification

Video/Audio Input	
Two-way Audio	1, integrated in EXT.DEV interface
IP Camera	8-ch connected via PoE interfaces
Video/Audio Output	
Audio Output	1, integrated in EXT.DEV interface
Video Output	Main output: 1, integrated in EXT.DEV interface. VGA: 1
Encoding/Decoding Parameters	
Video Compression	H.265,H.264
Audio Compression	G.711a/G.711u/G.722.1/G.726
Audio Bit Rate	16 Kbps to 64Kbps
Stream Type	Video, video & audio
Dual Stream	Supported
Frame Rate	PAL: 1 to 25 fps; NTSC: 1 to 30 fps
Wireless Network	
Dial-up	1 × 4G card slot, 1 ×FAKRA antenna 5G module(optional) Warning: Industrial SIM cards should be used for the devices. We will not be responsible for any issue caused by using general SIM cards.
Storage	
SD Card Storage	1 × SD card, up to 512 GB（not for baseline. Note the SD card capacity when ordering）
HDD/SDD	1 × 2.5 inch HDD/SSD, SSD up to 4 TB,HDD up to 2TB HDD/SSD data can be exported locally via this converter (optional)
Auxiliary Interface	
Network Interface	Front panel :1 ×10M/100M RJ45 Rear panel: 1 × 10M/100M RJ45 Note：The front and rear network ports are at same network segments
Alarm Input	4 high/low level signal inputs, 1 pulse signal input, 1 BUTTON input
Alarm Output	2 relay signal outputs
Wi-Fi Antenna Interface	WI2.4G model: 1 × 2.4 G Wi-Fi antenna, WI5.8G model: 2 × 5.8 G Wi-Fi antenna
Sensor-in	4 high/low level signal inputs
Serial Number Interface	2 × RS-232(harness is optional). 1 × RS-485. 1 × RS-485 (integrated in EXT.DEV interface)
USB Interface	Front panel: 1 × USB 2.0 Rear panel: 1 × USB 2.0 (5-pin aviation connector)
Positioning	
GNSS (Global Navigation Satellite System)	GPS (Global Positioning System) & GLONASS (Global Navigation Satellite System), 1 ×FAKRA antenna
Sensor	
G-Sensor	Built-in
General	
Product Dimension	184.4 mm × 190.05 mm × 63.2 mm (7.26" × 7.48" × 2.49")
Power Supply	+9 to +36 VDC

Power Consumption	Standby: ≤ 0.5 W Full load: ≤ 75 W Note: Without peripheral and storage media ≤ 20 W
Operating Temperature	-25 °C to +70 °C (-13 °F to +158°F)
Operating Humidity	10% to 95% (non-condensing)
Operation Method	Mouse, IR remote control, Web control, and display screen
Weight (Without Storage Media)	1.58 kg (3.48 lb.)
Approval	
EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015+A1:2020+A1:2020, EN 50130-4: 2011+A1:2014; EN IEC 61000-3-2: 2019+A1:2021, EN 61000-3-3: 2013+A1:2019+A2:2021);
Safety	CB (IEC 62368-1:2018); CE-LVD (EN IEC 62368-1:2020 + A11:2020);
Environment	CE-RoHS (2011/65/EU and amendment 2015/863/EU)
Automotive and Railway	E-MARK (ECE R10)

▪ Key Component

Available Model

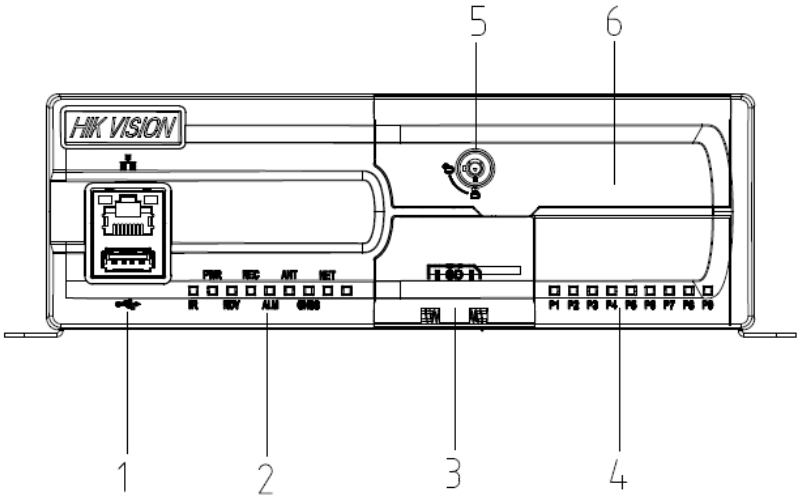
AE-MN5083 (RJ45/M12)
AE-MN5083 (RJ45/M12) + AE-MP1460/GLF, (supports 4G dialing)
AE-MN5083 (RJ45/M12) + AE-MP1460/GLF/WI58, (supports 4G dialing and 5.8G Wi-Fi)
AE-MN5083 (RJ45/M12)+ AE-MP1460/GLF/WI, (supports 4G dialing and 2.4G Wi-Fi)
* 4G and Wi-Fi functions are supported only when AE-MP1460 Mobile Wireless Component is equipped with AE-MN5083.

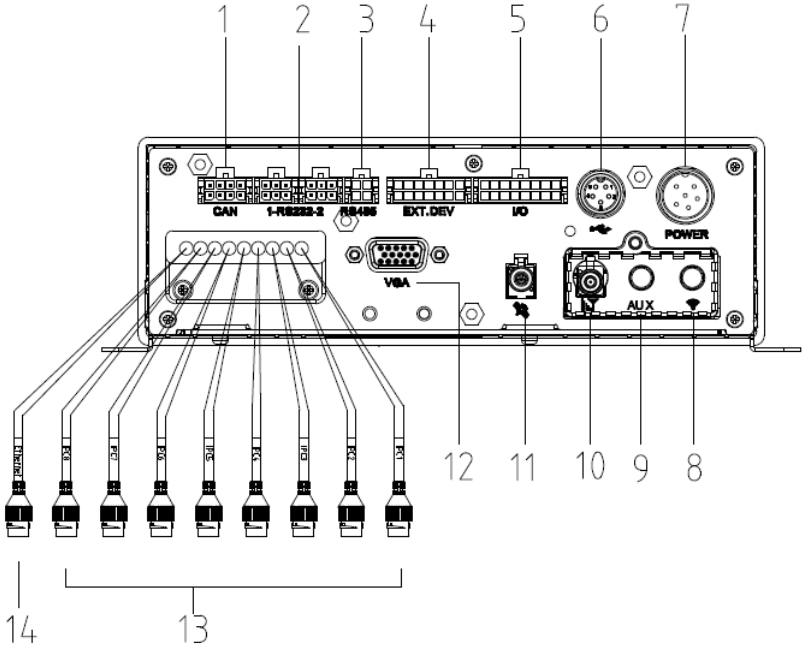
▪ Typical Application

Anti-corrosion Performance	Application
Professional	Coastal areas, wharfs, ports, ships and chemical factories, etc
High	Areas exposed to acid rain; areas over 1.24 miles (1 km) away from the coastline
Standard	Regular environment with little corrosion exposure

▪ Physical Interface

Front Panel and Rear Panel





No.	Name	No.	Name
1	10M/100M RJ45 Ethernet interface and USB 2.0 interface and	2	IR indicator
3	SD card slot	2	Power indicator
4	IPC Indicators	2	Ready indicator
5	Lock/Unlock the hard disk box	2	Record indicator
6	Dummy HDD/SSD	2	Alarm indicator
		2	ANT indicator
		2	GNSS indicator
		2	NET indicator
No.	Name	No.	Name
1	CAN	8	Main Wi-Fi antenna interface pulse signal input
2	RS-232 interface	9	Aux Wi-Fi antenna interface

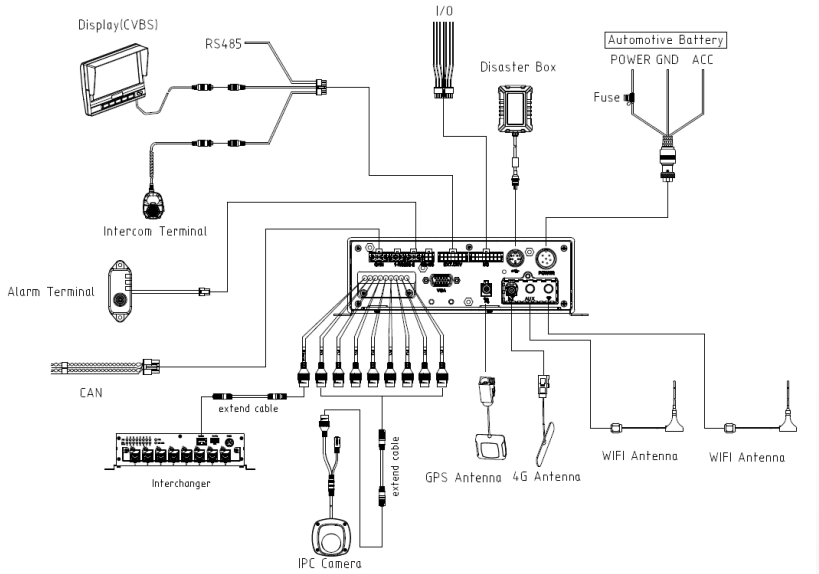
3	RS-485 interface	10	Main 3G/4G antenna interface
4	EXT.DEV interface: RS-485 communication interface, two-way audio interface, and CVBS video output	11	GNSS antenna interface
5	I/O interface: 4-ch alarm inputs, 4-ch sensor in; 1-ch pulse signal input	12	VGA video output interface
6	USB interface of 5-pin aviation plug	13	8 × PoE interface
7	6-pin aviation plug for power supply	14	1 × 10M/100M RJ45 Ethernet interface

▪ Installation Recommendation

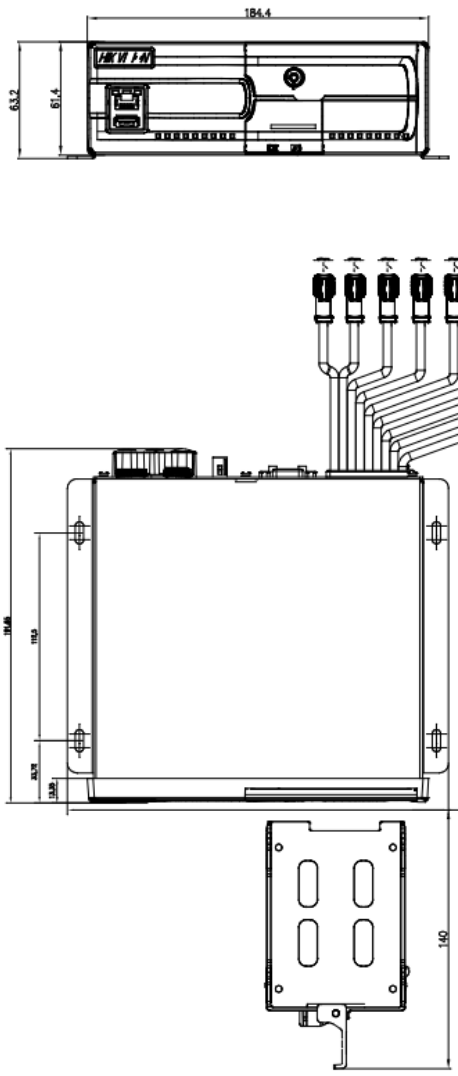
Packing List

Description	Quantity
Fuse	2
Power cord	1
Key	1
Alarm line	1
Extension cable	1
GPS antenna	1
VGA upper bracket	1
VGA lower bracket	1

▪ Wiring



▪ Dimension


184.4
63.2
61.4
140
HDD BOX SIZE

See Far, Go Further

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