AE-MN7163(RJ45)

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AE-MN7163 series NVR is a professional solution to vehicle video and audio management with built-in Linux operating system. It supports audio output and AHD video 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.

- 16-ch IP cameras connectable via PoE interfaces.
- Up to 5MP resolution of H.264/H.265 compression for each IP camera.
- Supports 2 × 2.5-inch SSD/HDD , where each SSD can be up to 4TB and each HDD can be up to 2TB.
- User-friendly GUI providing easy and flexible operations.
- 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.
- Supports accessing via WEB browser.
- Supports recording backup on redundant HDD/SSDs.

▪ Specification

Video/Audio Input	
Two-way Audio	1, integrated in EXT.DEV interface
IP Camera	16-ch connected via PoE interfaces
Video/Audio Output	
Audio Output	1, integrated in EXT.DEV interface
Video Output	AHD: 1, integrated in EXT.DEV interface,default AHD,configurable CVBS/AHD VGA: 1
Encoding/Decoding Parameters	
Video Compression	H.265,H.264, Smart H.264 and Smart H.265
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	
Wi-Fi	WI2.4G model: 1 × 2.4 G , WI5.8G model: 2 × 5.8 G (Optional. 802.11B/G/N and 802.11AC are selectable. 1 antenna is needed for 802.11B/G/N module. 2 antennas are needed for 802.11AC module)
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	2 × 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) Hard Disk Case with heating function (optional)
Auxiliary Interface	
Network Interface	Front panel :1 ×10M/100M/1000M RJ45 Rear panel: 1 × 10M/100M/1000M 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
Sensor-in	4 high/low level signal inputs
Serial Number Interface	2 × RS-232(harness is optional) 3 × RS-485 (1 integrated in EXT.DEV interface)
USB Interface	Front panel: 1 × USB 3.0 Rear panel: 1 × USB 2.0 (5-pin aviation connector)
CAN Interface	2 × CAN interface
Positioning	
GNSS (Global Navigation Satellite System)	GPS (Global Positioning System) & GLONASS (Global Navigation Satellite System), 1 ×FAKRA antenna
Sensor	
G-Sensor	Built-in,6-axis gyroscope

General	
Product Dimension	202 mm × 267.6 mm × 93.9 mm (7.95" × 10.54" × 3.7")
Power Supply	+9 to +36 VDC
Power Consumption	Standby: ≤ 0.5 W Full load: ≤ 99 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)	3.04 kg

▪ Key Component

Available Model

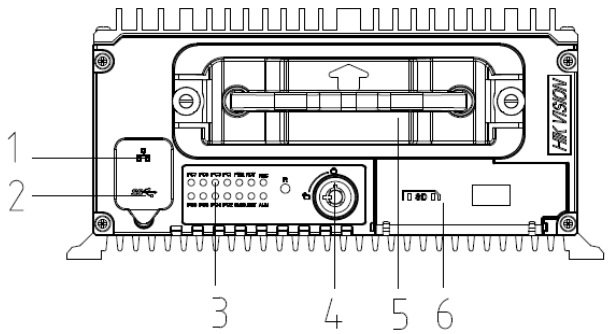
AE-MN7163 (RJ45/M12)
AE-MN7163 (RJ45/M12) + AE-MP1460/GLF, (supports 4G dialing)
AE-MN7163 (RJ45/M12) + AE-MP1460/GLF/WI58, (supports 4G dialing and 5.8G Wi-Fi)
AE-MN7163 (RJ45/M12)+ AE-MP1460/GLF/WI, (supports 4G dialing and 2.4G Wi-Fi)
* 4G and Wi-Fi functions are supported only when AE-MP1460 Mobile Wireless Component is equipped with AE-MN7163.

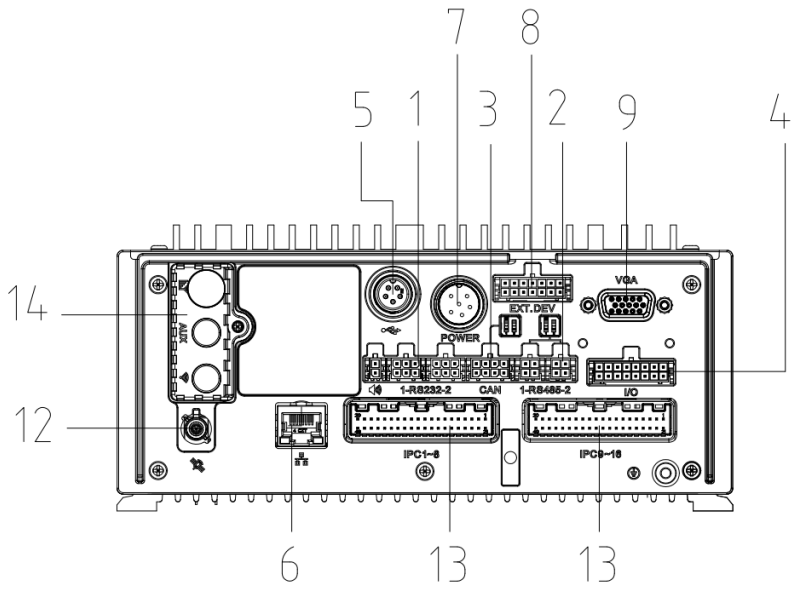
▪ Typical Application

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





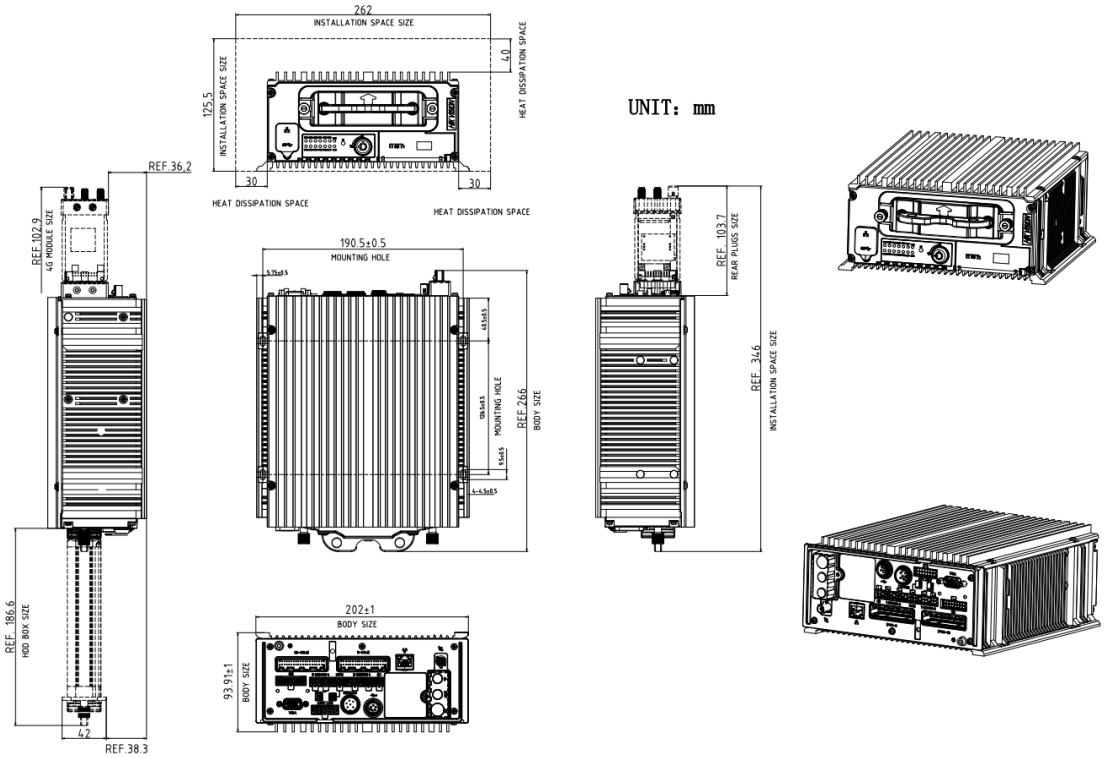
NO	Name	NO	Name
1	Network Interface	2	USB 3.0 Interface
3	Working Status Indicator	4	Mechanical Lock
5	HDD BOX	6	SD card slot
NO	Name	NO	Name
1	RS-232 Interface	2	RS-485 Interface
3	CAN Interface	4	I/O Interface
5	Disaster Recovery Box Interface	6	Network Interface
7	Power Interface	8	Extension Interface
9	VGA Interface	12	GNSS antenna interface
13	IP Camera Interface	14	Wireless Network module slot

▪ Installation Recommendation

Packing List

Description	Quantity
Fuse	2
Power cord	1
Key	1
Alarm line	1
Extension cable	1
GPS antenna	1
1-8 way audio and video cable	1
9-16 way audio and video cable	1
QUG	1

▪ Dimension


262
INSTALLATION SPACE SIZE
40
HEAT DISSIPATION SPACE
125.5
INSTALLATION SPACE SIZE
30
30
HEAT DISSIPATION SPACE
HEAT DISSIPATION SPACE
UNIT: mm
REF.36.2
REF.102.9
4G MODULE SIZE
190.5±0.5
MOUNTING HOLE
REF.266
BODY SIZE
REF.103.7
REAR PLUGS SIZE
REF.346
INSTALLATION SPACE SIZE
REF.186.6
HDD BOX SIZE
42
REF.38.3
202±1
BODY SIZE
93.91±1
BODY SIZE

See Far, Go Further

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