AE-MH0408(RJ45)
12-ch, H.264/H.265, 2 x HDD/SSD Mobile HDVR

AE-MH0408 series Hybird DVR 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. The product also supports extended features like Driving Status Monitoring (DSM) , Adcanced Driving Asistance System (ADAS), Blind Spot Detection(BSD) and Driver Identification(DI), which can improve traffic security and reduce the vehicle accident.

- 8-ch IP cameras connectable via PoE interfaces, 4-channel analog HD camera access.
- Up to 2MP resolution of H.264/H.265 compression for each IP camera.
- Pluggable 2 × 2.5 inch HDD/SSD, SSD up to 4 TB,HDD 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.

- Support accessing via WEB browser.
- Support Driving Status Monitoring and Adcanced Driving Asistance System.
- Support recording backup on redundant HDD/SSDs.
- Up to 3 AI features can be run at the same time，and the default combination is ADAS+DSM+DI

▪ Specification

Video/Audio Input	
Two-way Audio	1, integrated in EXT.DEV interface
IP Camera	8-ch connected via PoE interfaces
Analog Camera	4-ch HIK wiring sequence analog camera, Max. 1080P
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
Encoding Resolution	Main stream: 1080P/720P/WD1/4CIF Sub-stream: 720P/WD1/4CIF/2CIF/CIF
Wireless Network	
Dial-up	1 × 4G card slot, 1 ×FAKRA antenna 5G module(optional)
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 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 SMA antenna, WI5.8G model: 2 × 5.8 G Wi-Fi SMA antenna (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.)
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)
CAN Interface	2

Positioning	
GNSS (Global Navigation Satellite System)	GPS (Global Positioning System) & GLONASS (Global Navigation Satellite System), 1 ×FAKRA antenna
Sensor	
G-Sensor	Built-in
Smart Function	
Advanced Driving Assistance System (ADAS)	Supports detection and alerts for FCW/LDW/SLW/HMW/PCW/TSR
Driving Status Monitoring (DSM)	Supports detection and alerts for distraction/fatigue/calling/smoking/unfastened seat belt/yawning/absence from post/IR-blocking sunglasses/occlusion, with switchable A-pillar algorithm and formal attire algorithm
Blind Spot Detection (Right)	Supports right blind spot detection and alerts
Driver Identification	Supports driver modeling, driver detection & comparison, driver change alerts, abnormal identity detection & reporting, and attendance tracking
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: ≤ 90 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)	3.31 kg (7.3 lb.)
Approval	
EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 50498: 2010); CE-EMC (EN 55032: 2015+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	EN50155(EN 50155:2021 clause 13, EN 50121-3-2:2016+A1:2019, EN45545-2:2020; EN50153:2014+A1:2017+A2:2020; EN ISO:13732-1:2008;EN61373:2010); EN45545 (EN 45545-2:2020 hl3); E-MARK (ECE R10)

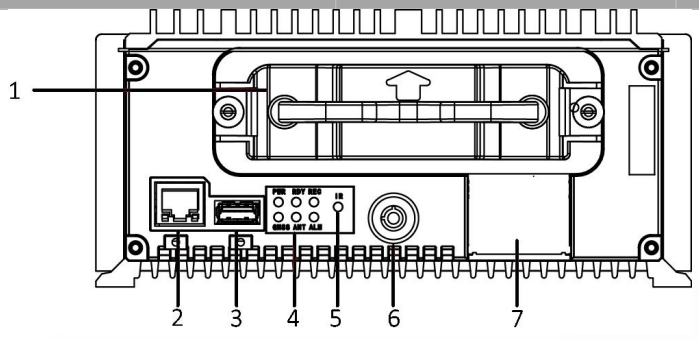
▪ Typical Application

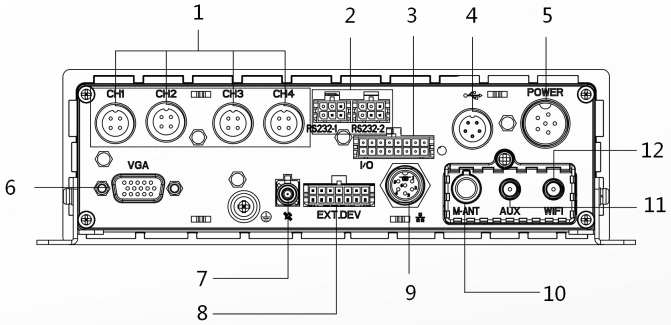
Anti-corrosion Performance	Application
Professional	Coastal areas, wharfs, ports, ships and chemical factories, etc.
High	Areas exposed to acid rain; areas over 1.24 miles (1 km) away from the coastline
Standard	Regular environment with little corrosion exposure

▪ Physical Interface

Front Panel and Rear Panel

No.	Name	No.	Name
1	Dummy HDD/SSD	4	Power indicator
2	10M/100M RJ45 Ethernet interface	4	Ready indicator
3	USB 2.0 interface	4	Record indicator
5	IR receiver	4	GNSS indicator
6	Lock/Unlock the hard disk box.	4	ANT indicator
7	SD card slot	4	Alarm indicator
No.	Name	No.	Name
1	RS-485 interface	8	Main 3G/4G antenna interface
2	RS-232 interface	9	Aux Wi-Fi antenna interface
3	RS-232 interface	10	Main Wi-Fi antenna interface
4	EXT.DEV interface: RS-485 communication interface, two-way audio interface, and CVBS video output	11	CAN
5	VGA video output interface	12	GNSS antenna interface
6	USB interface of 5-pin aviation plug	13	8 × PoE interface
7	6-pin aviation plug for power supply	14	1-4 way audio and video cable
15	I/O interface: 4-ch alarm inputs, 4-ch sensor in; 1-ch pulse signal input	16	1 × 10M/100M RJ45 Ethernet interface



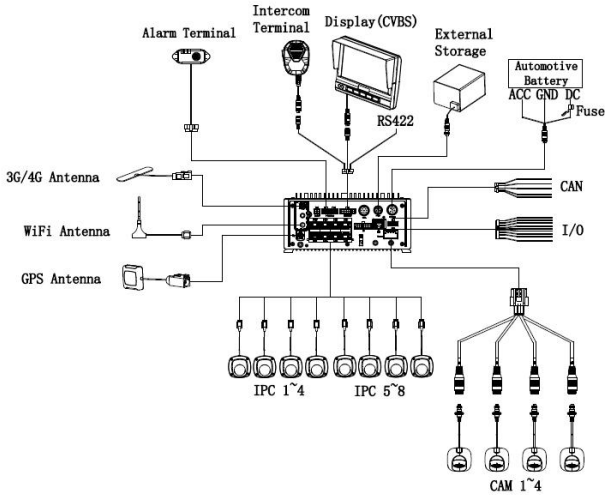


▪ Installation Recommendation

Packing List

Description	Quantity
Fuse	2
Power cord	1
Key	1
Alarm line	1
Extension cable	1
1-4 way audio and video cable	1
GPS antenna	1
Network cable clip	9
Network cable bracket	1

▪ Wiring



▪ Available Model

AE-MH0408(1T)(RJ45)

AE-MH0408(RJ45)

AE-MH0408(RJ45)(SKYICT)

AE-MH0408(RJ45)(UK 21ST)

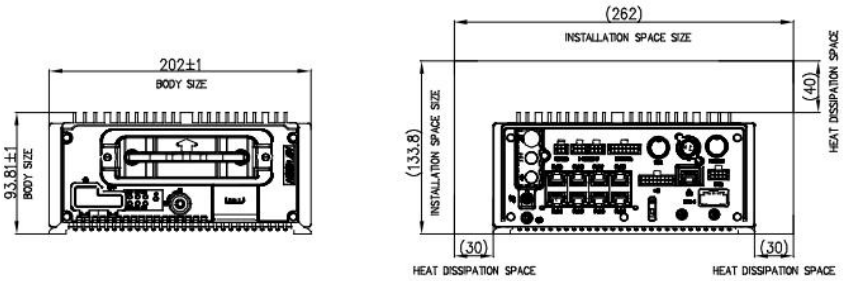
AE-MH0408(4T/HDD)(RJ45)(UK 21ST)

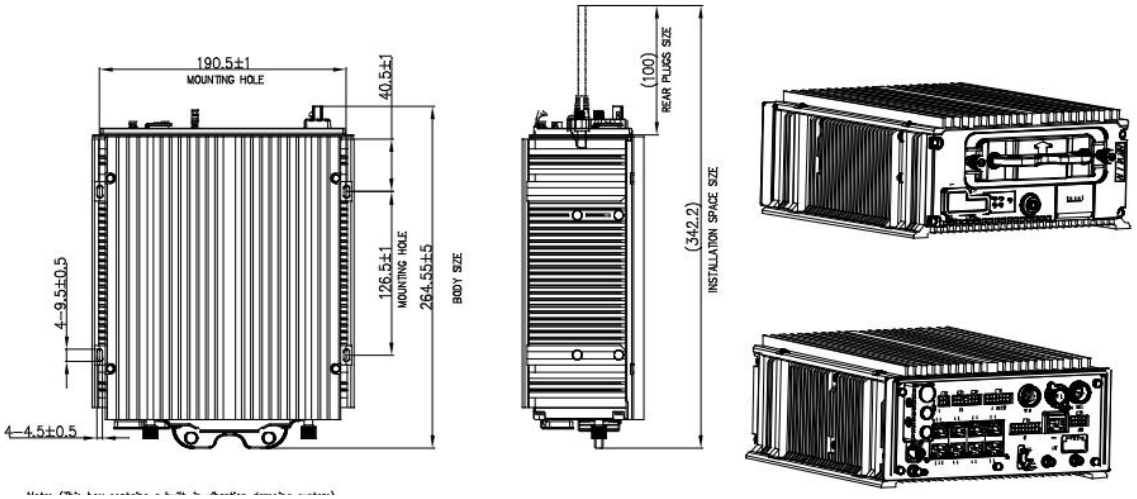
AE-MH0408(1T/SSD)(RJ45)

AE-MH0408(RJ45)(KSA OKAZ)/A

AE-MH0408(4T/SSD)(RJ45)(UK Journeo)

▪ Dimension


202±1
BODY SIZE
93.81±1
BODY SIZE
(262)
INSTALLATION SPACE SIZE
(133.8)
INSTALLATION SPACE SIZE
(40)
HEAT DISSIPATION SPACE
(30)
(30)
HEAT DISSIPATION SPACE
HEAT DISSIPATION SPACE


190.5±1
MOUNTING HOLE
40.5±1
126.5±1
MOUNTING HOLE
264.5±5
BODY SIZE
4-9.5±0.5
4-4.5±0.5
(100)
REAR PLUGS SIZE
(342.2)
INSTALLATION SPACE SIZE

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