

AE-MH0408 Series Mobile Video Recorder

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 abnormal detection, which can improve traffic security and reduce the vehicle accident.



Application

The anti-corrosion performance level of AE-MH0408 series Hybird DVR is standard. It is suitable for regular scenarios only and might be damaged when exposed to corrosive environment.

Description of anti-corrosion performance level:

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	

Key Feature

- 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 dummy HDD for HDD/SSD with up to 2 TB capacity.
- 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 Abnormal Detection.
- Support recording backup on redundant HDD/SSDs.





Specification

Model		AE-MH0408			
	IP Camera	8-ch connected via PoE interfaces			
Video/Audio Input	Analog Camera	4-ch HIK wiring sequence analog camera, Max. 1080P			
	Two-way Audio	1, integrated in EXT.DEV interface			
Video/Audio Output	Video Output	Main output: 1, integrated in EXT.DEV interface VGA: 1			
	Audio Output	1, integrated in EXT.DEV interface			
	Video Compression	H.264/H.265			
	Encoding Resolution	Main stream: 1080P/720P/WD1/4CIF Sub-stream: 720P/WD1/4CIF/2CIF/CIF			
Encoding/Decoding	Frame Rate	PAL: 1 to 25 fps; NTSC: 1 to 30 fps			
Parameters	Audio Compression	G.711a/G.711u/G.722.1/G.726			
	Stream Type	Video, video & audio			
	Audio Bitrate	16 -64Kbps			
	Dual Stream	Supported			
Storage	HDD/SSD	2 × 2.5 inch HDD/SSD, up to 2 TB for each HDD/SSD HDD/SSD data can be exported locally via this converter (optional) (A dummy HDD with 2 HDD/SSDs can be extended; Not for baseline. Note the HDD/SSD capacity when ordering)			
	CD C 1	$1 \times SD$ card, up to 256 GB (not for baseline. Note the SD card capacity			
	SD Card	when ordering)			
	4G Dialing	1 × 4G card slot, 1 ×FAKRA antenna			
	Available Module	5G module(optional)			
Wireless Network	Wi-Fi	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 802.11A module.)			
Positioning	GNSS (Global Navigation Satellite System)	GPS (Global Positioning System) & GLONASS (Global Navigation Satellite System), 1 ×FAKRA antenna			
	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 			
	Serial Port	2 × RS-232(harness is optional). 1 × RS-485. 1 × RS-485 (integrated in EXT.DEV interface)			
External Interface	CAN interface	2			
	USB Interface	 Front panel: 1 × USB 2.0 Rear panel: 1 × USB 2.0 (5-pin aviation connector) 			
	Sensor-in	4 high/low level signal inputs			
	Alarm Input	4 high/low level signal inputs, 1 pulse signal input, 1 BUTTON input			
	Alarm Output	2 relay signal outputs			
	Operating Method	Mouse, IR remote control, Web control, and display screen			
	Al Function	Abnormal Detection			
	G-sensor	Built-in			
General	Remote Control	Optional			
	Power Supply	+9 to +36 VDC			
	Consumption	● Standby: ≤ 0.5 W			



	● Full load: ≤ 75 W
	Note: Without peripheral and storage media ≤ 20 W
Working Temperature	-10 °C to +60 °C (+14 °F to +140°F)
Working Humidity	10% to 95%
Device Dimension (W × D × H)	202 × 267.6 × 93.9 mm (7.95 × 10.54 × 3.7 inch)
Device Weight (Without Storage Media)	3.31 kg (7.3 lb)

Available Model

AE-MH0408 (RJ45/M12)

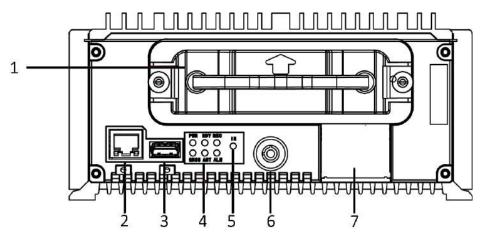
AE-MH0408 (RJ45/M12) + AE-MP1460/GLF/S, (supports 4G dialing)

AE-MH0408 (RJ45/M12) + AE-MP1460/GLF/WI58/S, (supports 4G dialing and 5.8G Wi-Fi)

AE-MH0408 (RJ45/M12)+ AE-MP1460/GLF/WI/S, (supports 4G dialing and 2.4G Wi-Fi)

Physical Interface

■Front Panel

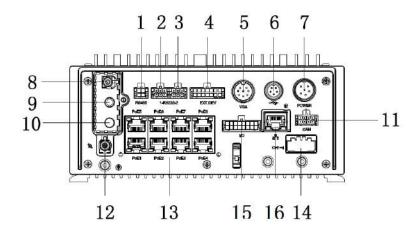


No.	Name	No.	Name
1	Dummy HDD/SSD		Power indicator
2	10M/100M RJ45 Ethernet interface		Ready indicator
3	USB 2.0 interface	4	Record indicator
5	IR receiver] 4	GNSS indicator
6	Lock/Unlock the hard disk box.		ANT indicator
7	SD card slot		Alarm indicator

Rear Panel(RJ45)

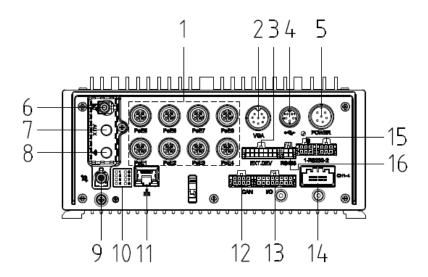
^{* 4}G and Wi-Fi functions are supported only when AE-MP1460 Mobile Wireless Component is equipped with AE-MH0408.





No.	Name	No.	Name
1	RS-485 interface	9	Aux Wi-Fi antenna interface
2	RS-232 interface	10	Main Wi-Fi antenna interface
3	RS-232 interface	11	CAN
4	EXT.DEV interface: RS-485 communication interface,	12	GNSS antenna interface
	two-way audio interface, and CVBS video output		
5	VGA video output interface	13	8 × PoE interface
6	USB interface of 5-pin aviation plug	14	1-4 way audio and video cable
7	6-pin aviation plug for power supply	15	I/O interface: 4-ch alarm inputs, 4-ch sensor in; 1-
			ch pulse signal input
8	Main 3G/4G antenna interface	16	1 × 10M/100M RJ45 Ethernet interface

■Rear Panel(M12)



No.	Name	No.	Name
1	8 × PoE interface	9	GNSS antenna interface
2	VGA video output interface	10	IPC camera Indicator
3	EXT.DEV interface: RS-485 communication interface,	11	1 × 10M/100M RJ45 Ethernet interface
	two-way audio interface, and CVBS video output	111	1 × 10W/ 100W KJ45 Ethernet interface
4	USB interface of 5-pin aviation plug	12	CAN
5	6-pin aviation plug for power supply	13	I/O interface: 4-ch alarm inputs, 4-ch sensor in; 1-
			ch pulse signal input



6	Main 3G/4G antenna interface	14	1-4 way audio and video cable
7	Aux Wi-Fi antenna interface	15	RS-232 interface
8	Main Wi-Fi antenna interface pulse signal input	16	RS-485 interface

Packing List

St		T ev .
Description	Quantity	Picture
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(M12 series not included)	9	
Network cable bracket(M12 series not included)	1	