

AE-MD5043**4-ch , H.264/H.265, 2xHDD/SSD Mobile DVR**

AE-MD5043 series DVR is a professional solution to vehicle video and audio management with built-in Linux operating system. It supports input of HDTVI, AHD and CVBS cameras in HIK-wiring-sequence and 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), Advanced Driving Assistance System (ADAS), Blind Spot Detection (BSD) and Driver Identification (DI), which can improve traffic security and reduce the vehicle accident.

- Access of 4 HD TVI cameras with up to 1080P resolution.
- 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 DVR 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 Advanced Driving Assistance 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	
Analog Camera	4-ch HIK wiring sequence analog camera, Max. 1080P
Two-way Audio	1, integrated in EXT.DEV interface
Video/Audio Output	
Audio Output	1
Video Output	Main output: 1, integrated in EXT.DEV interface
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
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	
Wi-Fi	WI58 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.)
3G/4G Dialing	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 RJ45 Rear panel: 1 × 10M/100M 6-pin aviation connector Note : The front and rear network ports are at different network segments and the 6-pin aviation network cable female head to RJ45 is optional.
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 Port	2 × RS-232(harness is optional), 1 × RS-422 (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

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	
Power Supply	+9 to +36 VDC
Product Dimension	206 mm × 225.4 mm × 60.1 mm (8.1" × 8.87" × 2.37")
Power Consumption	Standby: ≤ 0.5 W Full load: ≤ 45 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 touchscreen
Weight (Without Storage Media)	1.7 kg (3.75 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)
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 50155:2017 clause 13, EN 50121-3-2:2016+A1:2019, EN50153:2014+A1:2017+A2:2020; BS EN ISO:13732-1:2008;EN61373:2010); EN45545 (EN 45545-2:2020 h13); E-MARK (ECE R10)

▪ Typical Application

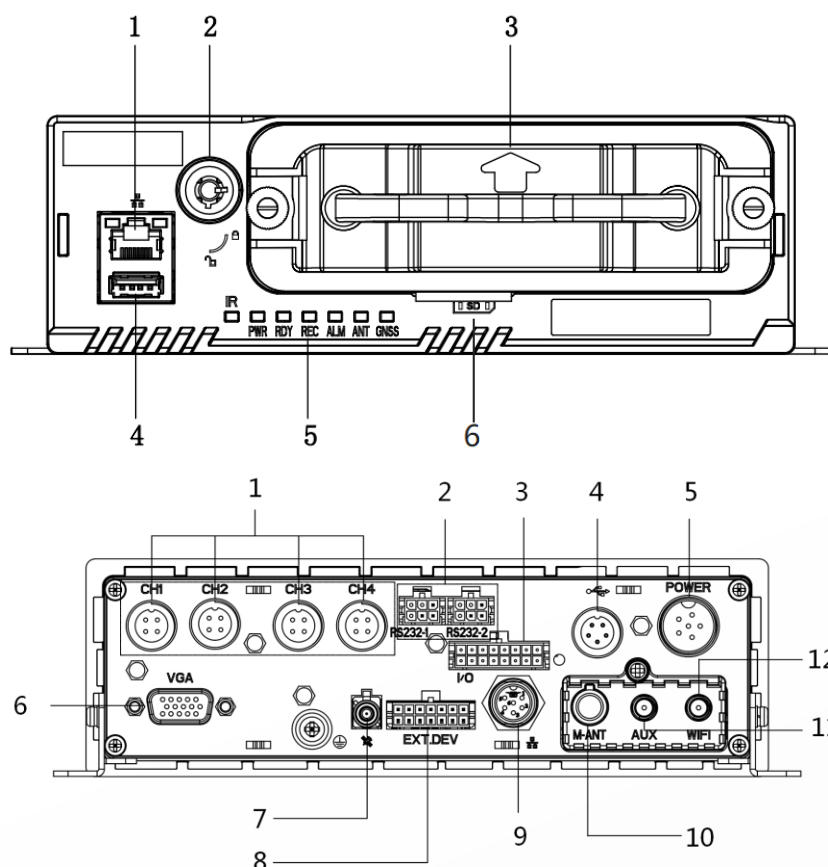
Anti-corrosion Performance	Application
Professional	Coastal areas, wharfs, ports, ships and chemical factories, etc.
High	Areas exposed to acid rain; areas over 1.24 miles (1 km) away from the coastline
Standard	Regular environment with little corrosion exposure

▪ Physical Interface

Front Panel and Rear Panel

No.	Name	No.	Name
1	RJ45 interface	4	USB 2.0 interface
2	Dummy HDD/SSD lock	5	PWR: Power indicator RDY: Ready indicator REC: Record indicator ALM: Alarm indicator ANT: Dialing

			indicator GNSS: Positioning indicator
3	Dummy HDD/SSD	6	SD card slot
No.	Name	No.	Name
1	Analog camera input	7	GNSS antenna interface
2	RS-232 interface	8	RS-422 communication interface, two-way audio interface, and CVBS video output
3	Alarmin, alarmout, and sensor-in	9	Network interface
4	USB 2.0 or 5-pin aviation connector	10	4G dialing antenna interface
5	Power supply	11	Auxiliary Wi-Fi antenna interface
6	VGA video output interface	12	Wi-Fi antenna interface



▪ Installation Recommendation

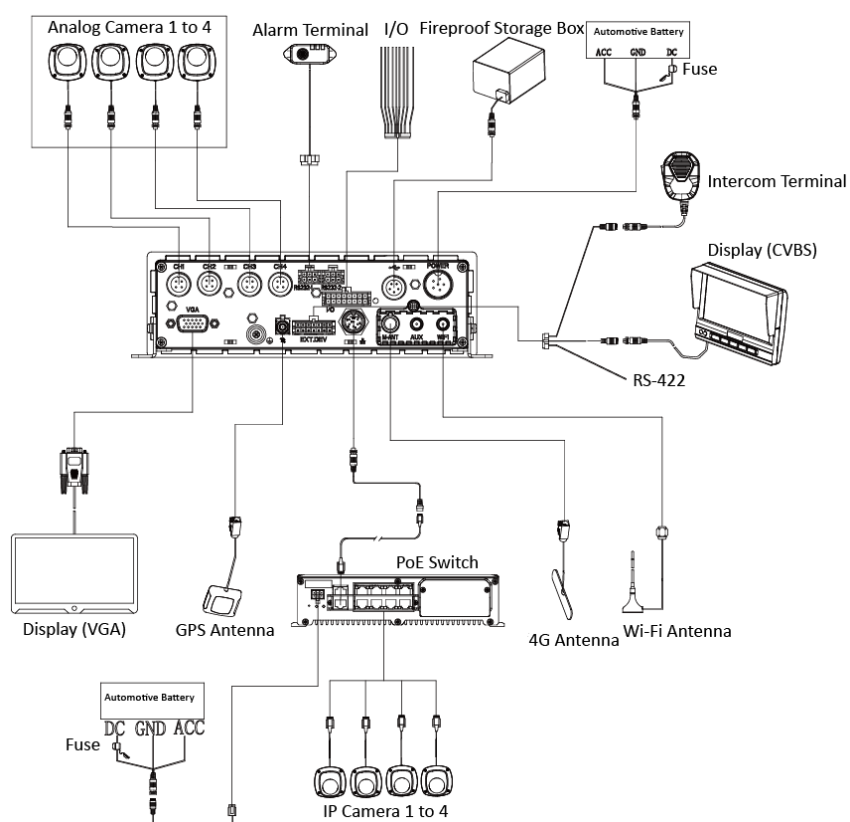
Packing List

Description	Quantity
Fuse	2
Power cord	1
Key	1
Alarmline	1
Extension cable	1

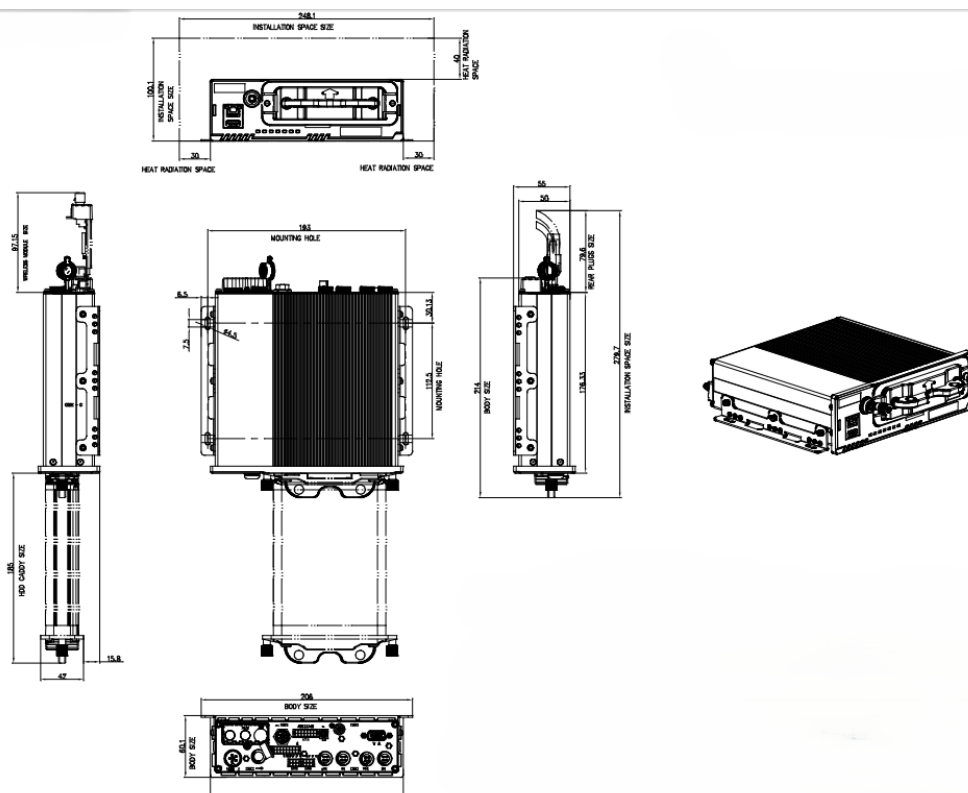
GPS antenna

1

Wiring



Dimension



See Far, Go Further



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