AE-MD5043-SD
4-ch , H.264/H.265, 2 x SD Card Mobile DVR



AE-MD5043-SD series DVR is designed for vehicle video and audio management using embedded Linux operating system. It supports the mixed access of HDTVI, AHD and CVBS cameras in HIK-wiring-sequence, with video and audio encoding/decoding, 4G wireless network transmission, satellite positioning, data secure storage, alarm triggering and other functions. It also provides channel selection and coding scheme, which especially suitable for the video and audio monitoring needs for scenes like taxis, muck trucks, logistics vehicles etc. To meet the needs of long - time video recording, it adopts dual SD card for storage.

- Access of 4 HD TVI cameras with up to 1080P resolution.
- 2 SD cards accessible. Up to 512 GB capacity for each.
- Support recording backup on redundant SD cards.
- User-friendly GUI providing easy and flexible operations.
- Built-in 4G module and Wi-Fi module providing flexible data transmission solutions. Only for product models that support 4G& Wi-Fi.
- 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.
- I Series Support for AI feature, the default combination is ADAS+DSM+DA

▪ Specification

Video/Audio Input	
Analog Camera	4-ch HIK wiring sequence analog camera, Max. 1080P
Audio Input	Support up to 3 channels of camera audio (channel 2~4) and 1 channel of two-way audio
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 25fps@1080P; NTSC: 1 to 30 fps@1080P; PAL: 1 to 25 fps@720P; NTSC: 1 to 30 fps@720P;
Encoding Resolution	Main stream: 1080P/720P/WD1/4CIF Sub-stream: 720P/WD1/4CIF/2CIF/CIF
Wireless Network	
Wi-Fi	WI2.4G model: 1 × 2.4 G Wi-Fi antenna, WI5.8G model: 2 × 5.8 G Wi-Fi antenna
3G/4G Dialing	1 × 4G card slot, 1 × FAKRA antenna 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	2 × SD card slots, each up to 512 GB
Auxiliary Interface	
Network Interface	Rear panel: 1 ×10M/100M RJ45
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	1 × RS-232, 1 × RS-485 (integrated in EXT.DEV interface)
USB Interface	Front panel: 1 × USB 2.0
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)	
Driving Status Monitoring (DSM)	
Blind Spot Detection (Right)	
Driver Identification	

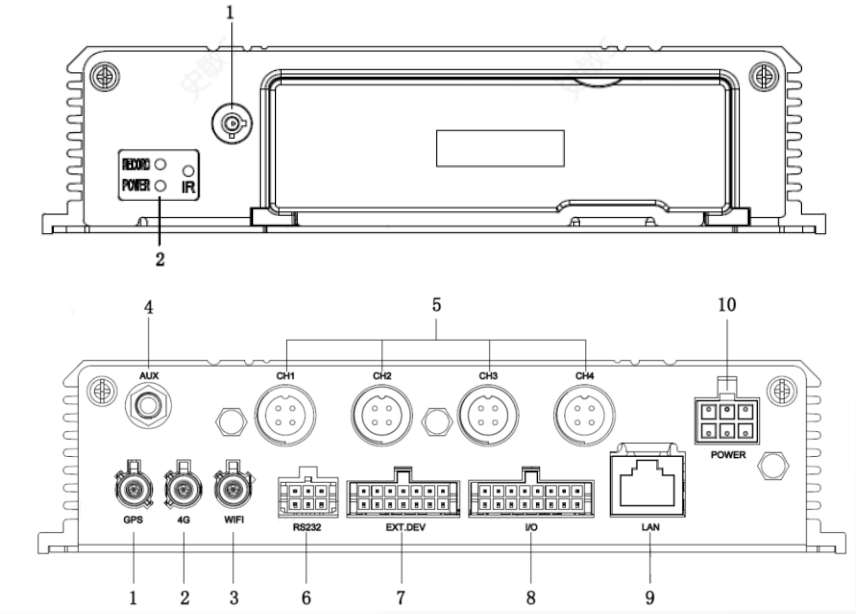
General	
Product Dimension	184 mm × 134.4 mm × 44 mm (7.2" × 5.29" × 1.73")
Power Supply	+9 to +36VDC
Power Consumption	Standby: ≤ 0.5 W Full load: ≤ 45 W Note: Without peripheral and storage media ≤ 20 W
Operating Temperature	-25 °C to +70 °C (-13 °F to +158°F)
Operating Humidity	10% to 95% (non-condensing)
Operation Method	Mouse, IR remote control, Web control, and touchscreen
Package Dimension	250 mm ×210 mm × 160 mm (9.84" × 8.27" ×6.30")
With Package Weight	Without Storage Media:1.38 kg (3.05 lb.)
Weight (Without Storage Media)	0.65 kg (1.43 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)
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)

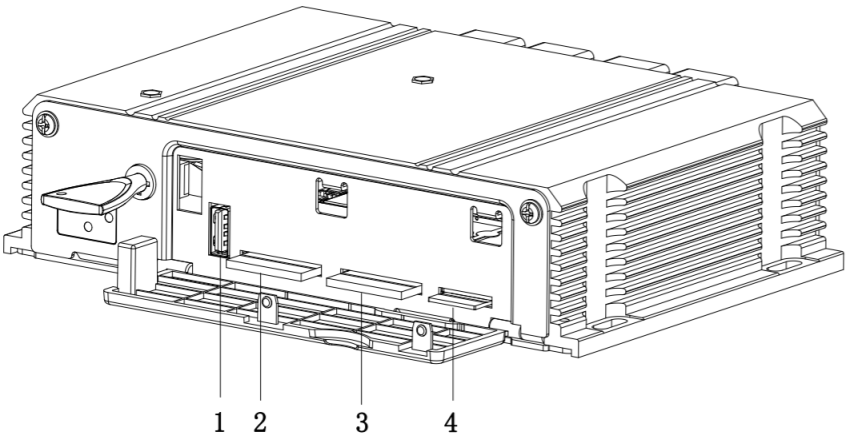
**修改wifi接口*

▪ Typical Application

▪ Physical Interface

Front Panel and Rear Panel





No.	Name	No.	Name
1	Front panel lock	2	PWR: Power indicator REC: Record indicator IR: Infrared receiving Indicator
No.	Name	No.	Name
1	GNSS antenna interface	2	4G dialing antenna interface
3	Wi-Fi antenna interface	4	Wi-Fi antenna interface
5	Analog camera input	6	RS-232 interface
7	RS-485 communication interface, two-way audio interface and CVBS video output	8	Alarm in, alarm out and sensor-in
9	Network interface	10	Power supply
No.	Name	No.	Name
1	USB 2.0 interface	2	SD card slot
3	SD card slot	4	SIM card slot

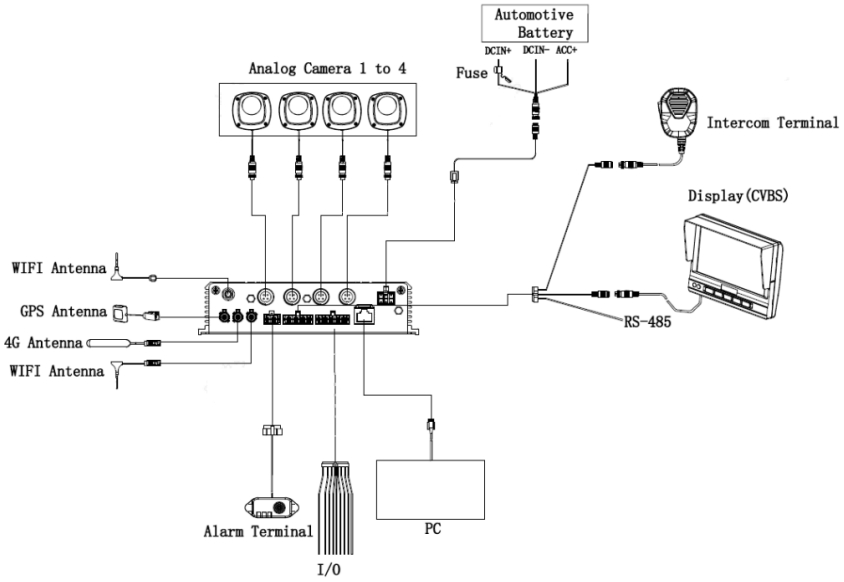
▪ Installation Recommendation

Packing List

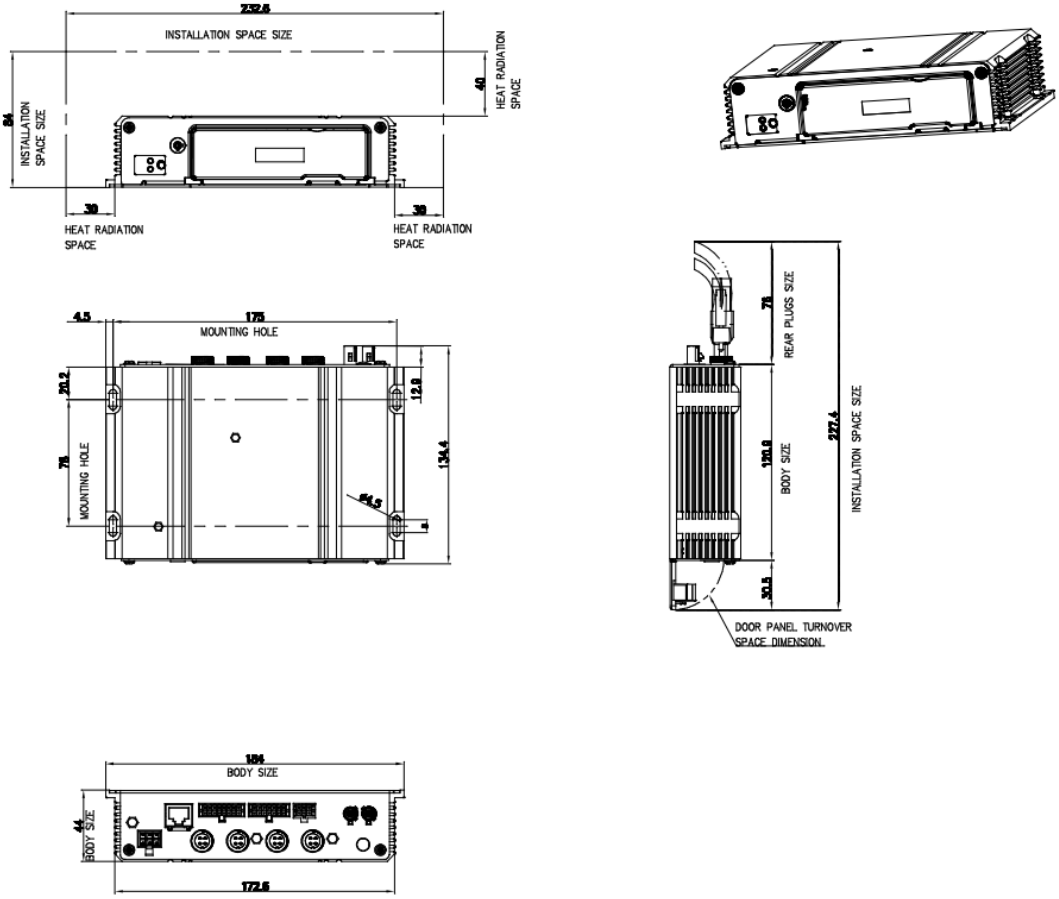
Peripheral Connection

Description	No.
Fuse	1
Power cord	1
Key	1
Alarm line	1
Extension cable	1
3G/4G antenna	1
Wi-Fi antenna (2.4G&5.8G)	1
Wi-Fi antenna (5.8G)	1
GPS antenna	1

▪ Wiring


Automotive Battery
DCIN+ DCIN- ACC+
Fuse
Analog Camera 1 to 4
Intercom Terminal
Display(CVBS)
WIFI Antenna
GPS Antenna
4G Antenna
WIFI Antenna
RS-485
Alarm Terminal
I/O
PC

▪ Dimension


INSTALLATION SPACE SIZE
HEAT RADIATION SPACE
INSTALLATION SPACE SIZE
HEAT RADIATION SPACE
HEAT RADIATION SPACE
MOUNTING HOLE
MOUNTING HOLE
REAR PLUGS SIZE
BODY SIZE
INSTALLATION SPACE SIZE
DOOR PANEL TURNOVER SPACE DIMENSION
BODY SIZE
BODY SIZE

See Far, Go Further

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