AE-MD5043 Series
Mobile Video Recorder

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.

▪ Application

The anti-corrosion performance level of AE-MD5043 series 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

- Access of 4 HD TVI cameras with up to 1080p resolution.
- Pluggable dummy HDD for HDD 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 DVR from damage caused by sudden power outage.
- Wide-range power input (+9 VDC to +32 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.

▪ Specification

Model		AE-MD5043
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
Encoding/Decoding Parameters	Video Compression	H.264/H.265
	Encoding Resolution	Main stream: 1080p/720p/WD1/4CIF Sub-stream: 720P/WD1/4CIF/2CIF/CIF
	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;
	Audio Compression	G.711a/G.711u/G.722.1/G.726/AAC
	Stream Type	Video, video & audio
	Audio Bitrate	16 Kbps
	Dual Stream	Supported
Storage	HDD/SSD	1 × 2.5 inch HDD/SSD, up to 2 TB for each HDD/SSD (A dummy HDD with 2 HDD/SSDs can be extended; Not for baseline. Note the SD card capacity when ordering) A dummy HDD with USB 3.0 interface
	SD Card	1 × SD card, up to 256 GB（not for baseline. Note the SD card capacity when ordering）
Wireless Network	4G Dialing	1 × 4G card slot, 1 ×FAKRA antenna
	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.)
Positioning	GNSS (Global Navigation Satellite System)	GPS (Global Positioning System) & BD (BeiDou Navigation Satellite System), 1 ×FAKRA antenna
External Interface	Network Interface	● Front panel :1 ×10M/100M RJ45 ● Rear panel: 1 × 10M/100M M12 6-pin aviation connector
	Serial Port	2 × RS-232, 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)
	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
General	Operating Method	Mouse, IR remote control, Web control, and touchscreen
	G-sensor	Built-in
	Power Supply	+9 to +32 VDC
	Consumption	● Standby: ≤ 0.5 W ● Full load: ≤ 45 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)	206 × 225.4 × 60.1 mm (8.1 × 8.87 × 2.37 inch)
	Package Dimension	250×210×160mm （9.84 ×8.27 ×6.30 inch)

(W × D × H)	
Device Weight (Without Storage Media)	1.7 kg (3.75 lb)
Package Weight (Without Storage Media)	2.6kg （5.73 lb）

▪ Available Model

AE-MD5043
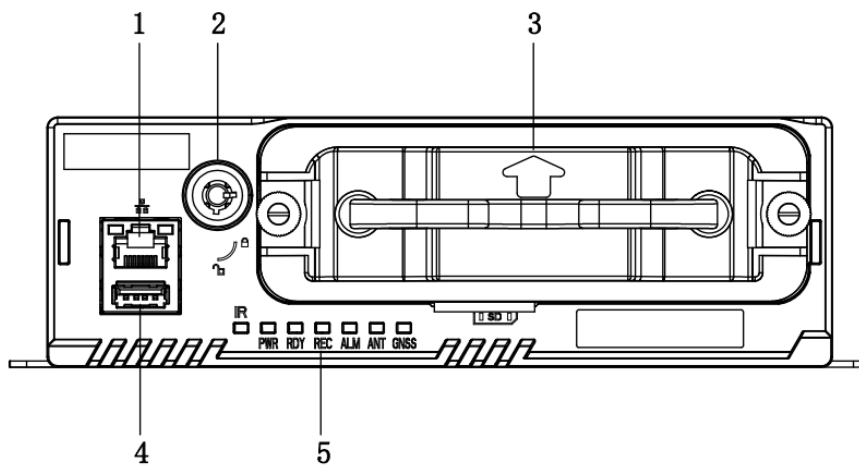AE-MD5043 + AE-MP1460/GLF/S, (supports 4G dialing),
AE-MD5043 + AE-MP1460/GLF/WI58/S, (supports 4G dialing and 5.8G Wi-Fi)
AE-MD5043 + AE-MP1460/GLF/WI/S, (supports 4G dialing and 2.4G Wi-Fi)
* 4G and Wi-Fi functions are supported only when DS-MP1460 Mobile Wireless Component is equipped with AE-MD5043.
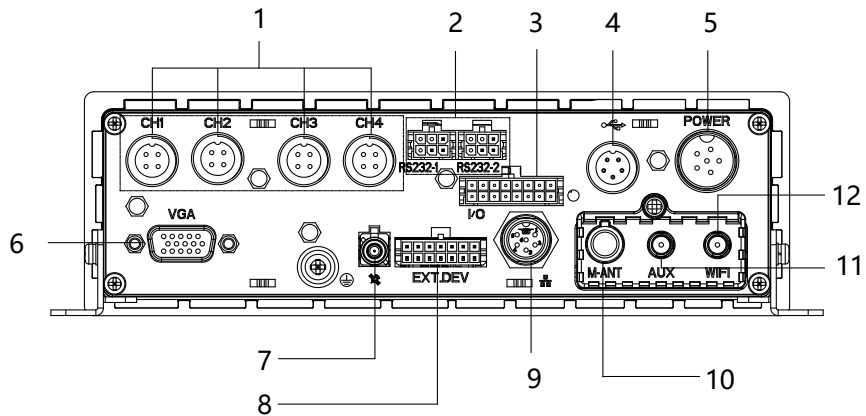
▪ Physical Interface

▪ Front Panel

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

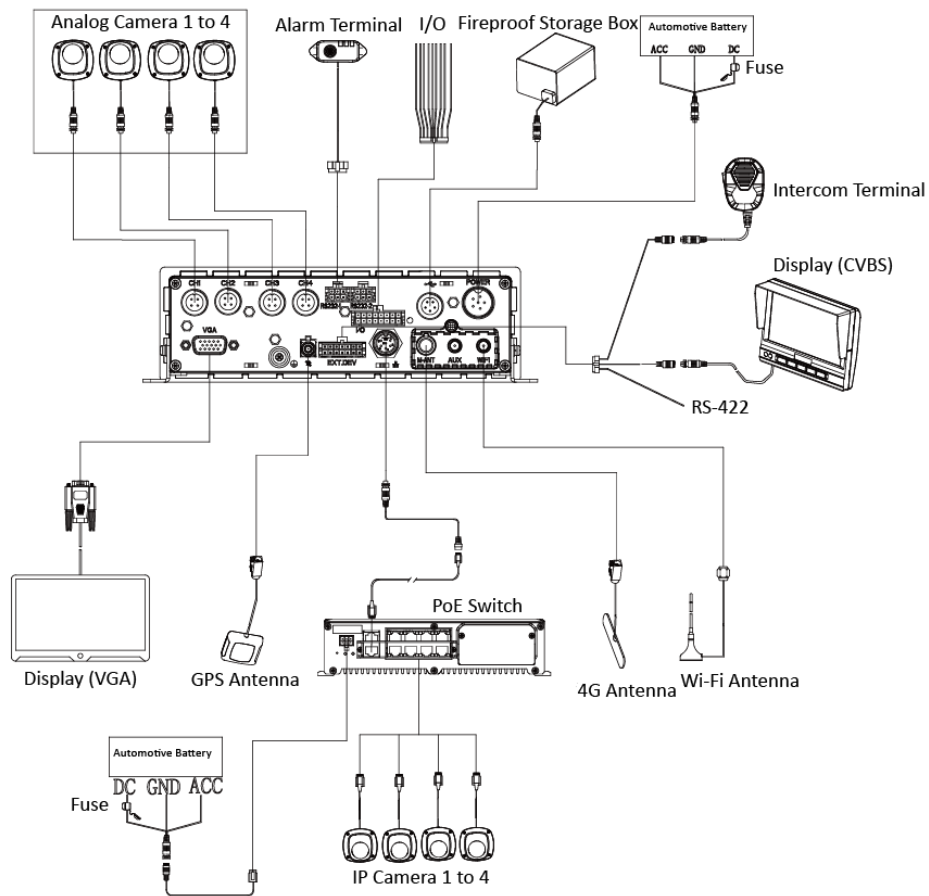▪**Rear Panel**

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	Alarm in, alarm out, and sensor-in	9	Network interface
4	USB 2.0 of 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

▪ **Packing List**

Description	Quantity	Picture
Fuse	2	
Power cord	1	
Key	1	
Alarm line	1	
Extension cable	1	
GPS antenna	1	

▪ Peripheral Connection

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Hikvision USA T +1-909-895-0400 sales.usa@hikvision.com	**Hikvision Europe** T +31-23-5542770 sales.eu@hikvision.com	**Hikvision UK & Ireland** T +01628-902140 sales.uk@hikvision.com	**Hikvision UAE** T +971-4-4432090 salesme@hikvision.com	**Hikvision Russia** T +7-495-669-67-99 saleru@hikvision.com
Hikvision Australia T +61-2-8599-4233 salesau@hikvision.com	**Hikvision Italy** T +39-0438-6902 info.it@hikvision.com	**Hikvision South Africa** Tel: +27 (10) 0351172 sale.africa@hikvision.com	**Hikvision Singapore** T +65-6684-4718 sg@hikvision.com	**Hikvision Korea** T +82-(0)31-731-8817 sales.korea@hikvision.com
Hikvision India T +91-22-28469900 sales@pramahikvision.com	**Hikvision Brazil** T +55 11 3318-0050 Latam.support@hikvision.com	**Hikvision France** T +33(0)1-85-330-450 info.fr@hikvision.com	**Hikvision Spain** T +34-91-737-16-55 info.es@hikvision.com	**Hikvision Poland** T +48-22-460-01-50 info.pl@hikvision.com
Hikvision Canada T +1-866-200-6690 sales.canada@hikvision.com	**Hikvision Turkey** T +90 (216)521 7070- 7074 sales.tr@hikvision.com	**Hikvision Kazakhstan** T +7-727-9730667 nikia.panfilov@hikvision.ru	**Hikvision Tashkent** T +99-87-1238-9438 uzb@hikvision.ru	**Hikvision Indonesia** T +62-21-2933759 Sales.Indonesia@hikvision.com
Hikvision Thailand T +662-275-9949 sales.thailand@hikvision.com	**Hikvision Malaysia** T +601-7652-2413 sales.my@hikvision.com	**Hikvision Vietnam** T +84-974270888 sales.vt@hikvision.com	**Hikvision Hong Kong** T +852-2151-1761 info.hk@hikvision.com	**Hikvision Colombia** sales.colombia@hikvision.com