AE-DI5052-G40 PRO
Industry Dashcam

- Support up to 5-channel video recording, 2-ch default and 3-ch extension.

- Front camera: 1620P， Rear camera: 1080P， Extension channel: 1080P.

- Built-in Microphone and Speaker, support two-way audio function.

- Support GPS/GLONASS/GALILEO and time, speed overlay on picture.

- Built-in Wi-Fi communication module, support AP access point.

- Built-in Bluetooth module, support connecting to third-party sensors.

- Built-in 4G module, support 2×NANO SIM card.

- Support 2 × Micro-SD card storage, each up to 1 TB. Support recording overwrite.

- Support preview, playback and editing parameters via APP.

- Support HCT, HCP and CMSV6 Platforms.

- Built-in 6-axis gyroscope sensor, start emergency video and video backup lock when the vehicle has a collision or severe vibration.

- Support 2-ch IO alarm input, 3-ch steering signal.

- Support Advanced Driving Assistance System (ADAS), Driver Status Monitoring (DSM), Driver Authentication, People counting.

- Support sentry mode, protect and monitor all-day parking.
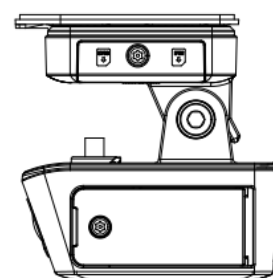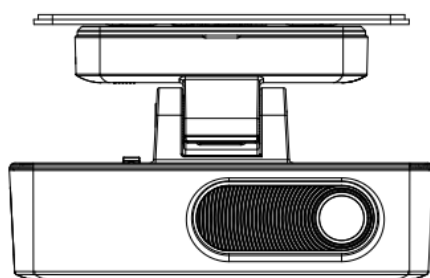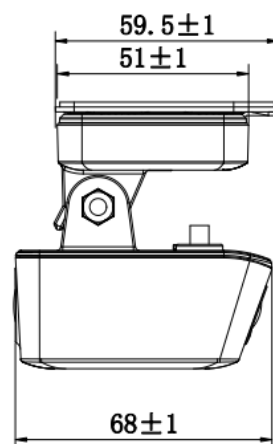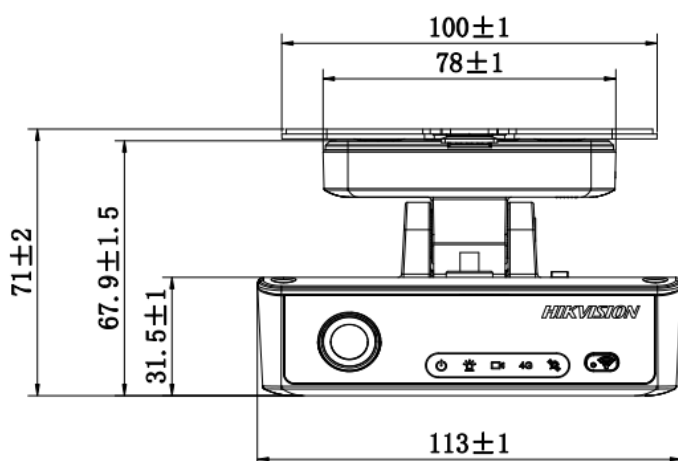
- Easy installation and operation.

▪ Specification

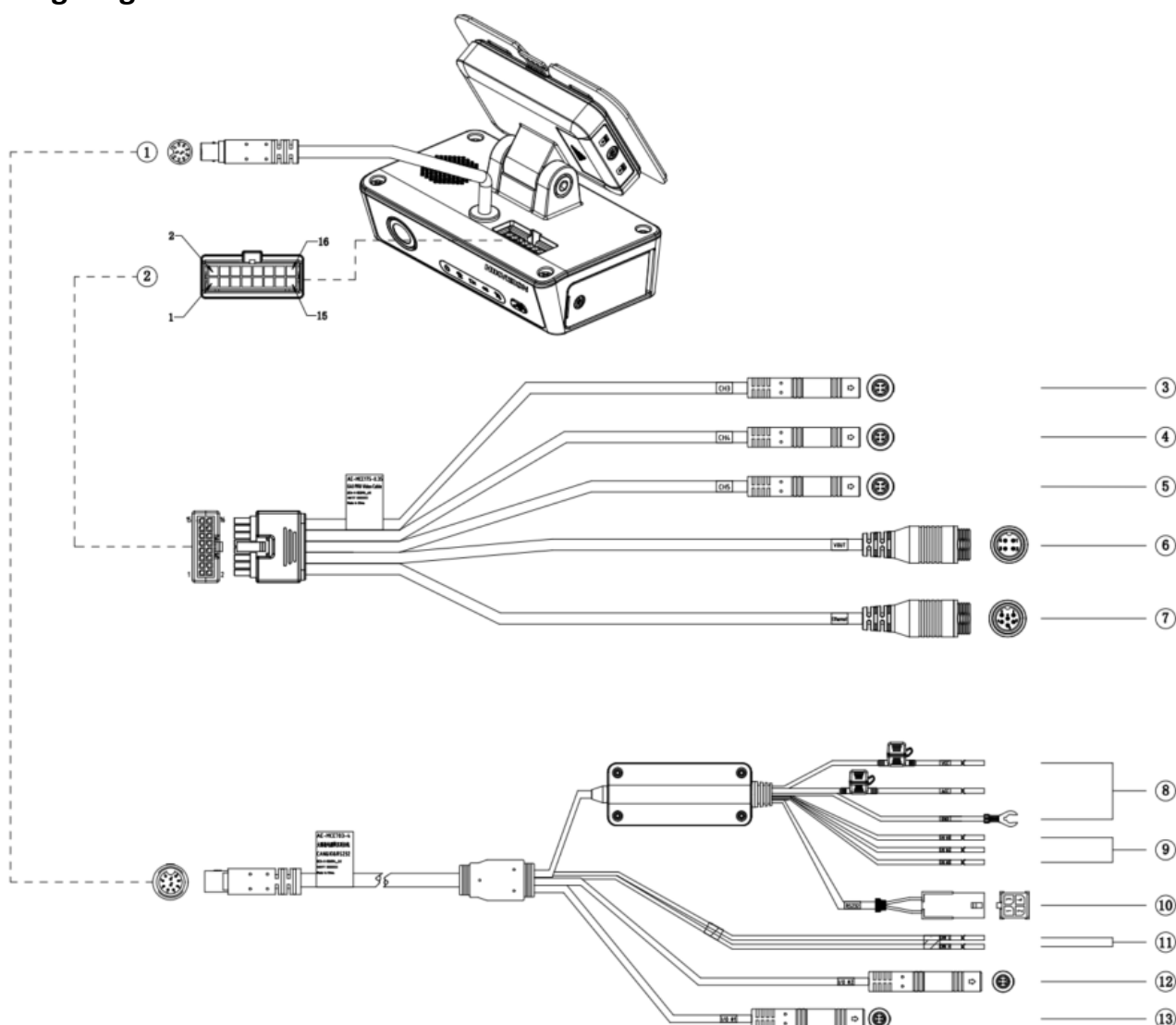| Camera	
Image Sensor	Front view: 1/2.7" CMOS Rear view: 1/2.8" CMOS
Min. Illumination	Front view: 0.1 Lux Rear view: support IR
Shutter Speed	Front view: 1/30 s Rear view: 1/30 s
Lens	
Focal Length	Front view: 3mm Rear view: 2.28mm
Max. Aperture	Front view: F1.6 Rear view: F2.2
Lens Mount	Front view: M12 Rear view: M12
FOV	Front view: HFOV: 123° VFOV: 63° DFOV: 142° Rear view: HFOV:145° VFOV:78° DFOV: 172° Note: Horizontal, Vertical Tolerance±3°; Diagonal Tolerance±5°
Video Audio Input	
Video Input	5-Channel Video (Default: 2-Channel; Extension: 3-Channel)
Audio Input	2-Way, Built-In Sound Pickup
Video Audio Output	
Audio Output	1-Way, Built-In Speaker
Video Output	1-Way CVBS/TVI/AHD Video Output
Video Audio Decoding Parameters	
Main Stream Resolution	CH1: 2880 × 1620, 1920 × 1080 (default), 1280 × 720 CH2: 1920 × 1080 , 1280 × 720(CH2 Default) Note: The default resolution of CH3-CH5 is decided by external camera.
Sub-Stream Resolution	CH1: 1280 × 720 (Default), 640 × 480 CH2~CH5: 640 × 480 (Default)
Main Stream Frame Rate	10 fps, 15 fps, 25fps, 30 fps available. The default CH1 is 25 fps, and CH2-CH5 is 15 fps.
Sub-Stream Frame Rate	10fps, 15fps, 25fps, 30 fps available, CH1-CH5 default 15 fps.
Video Compression Standard	H.264 (Default), H.265
Video Bit Rate	CH1: 20 Mbps, 16 Mbps, 8 Mbps, 4 Mbps (default), 2 Mbps, 1 Mbps CH2~CH5: 4 Mbps, 2 Mbps, 1 Mbps (default), 512 Kbps
Video Format	MP4
Audio Sampling Rate	G711U: 8kHz(Default) G711A: 8kHz AAC: 16kHz
Audio Compression Standard	AAC/G711u (Default)/G711A
Audio Bit Rate	G711U: 64 kHz (Default) G711A: 64 kHz AAC: 64 kHz
Two-Way Audio Compression Standard	AAC/G711u (Default)/G711A
Stream Type	PS Stream
Audio	
Built-in microphone.	Support
Internal Speaker	Support

Wireless Network	
Mobile Network	Europe: LTE-FDD: B1, B3, B5, B7, B8, B20, B28 LTE-TDD: B38, B40, B41 WCDMA: B1, B5, B8 GSM/EDGE:B3,B8 Latin America: LTE-FDD: B1, B2, B3, B4, B5, B7, B8, B28, B66 LTE-TDD: B40 WCDMA: B1, B2, , B4, B5, B8 GSM/EDGE:B2,B3,B5,B8 Warning: The device requires industrial SIM card. Normal SIM card is not allowed. We are not responsible for any problems caused by using any normal SIM card.
Image	
Wide Dynamic Range	Front view: Wide Dynamic Range Rear view: Linear
Signal to Noise Ratio	Front view: 42dB Rear view: 42dB
OSD	Date, time, GPS latitude and longitude, speed, license plate, and channel name.
Peripheral Interface	
Alarm Input	2-Way Alarm(4pin BMW), 3-Way Steering(Half Stripped Lines)
CAN	1
SIM Card Slot	2 (plug-in type, support industrial-grade Nano SIM card, dual-card single waiting)
Network Interface	1 x 6-pin aviation header
Interface	
RS232	1
Power Supply Interface	1 (10pin BMW)
Reset Key	1 (pinhole button) Press (≥1 sec & < 5 sec) to reset the device to restart. Press and hold the reset key (≥ 5 sec) to restore the default parameter settings.
Function Key	One Wi-Fi button. Short press to enable AP mode.
Wireless Transmission	
Wi-Fi Band	2.4 GHz
Wi-Fi Protocol	802.11 b/g/n
Wi-Fi Working Mode	AP, STATION
Satellite Positioning	
Positioning	GPS (Global Positioning System) GLONASS (Global Navigation Satellite System) GALILEO (Galileo satellite navigation system)
Sensor	
G-Sensor	6-Axis
Location Algorithom	
Inertial Navigation	Support
Intelligent Function	
Face Picture Comparison	Support

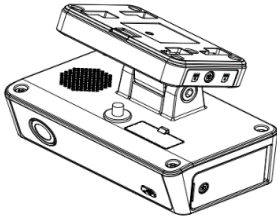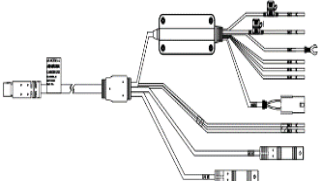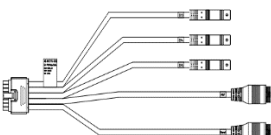|	
Advanced Driving Assistance System (ADAS)	Forward Collision Warning (FCW) Lane Departure Warning (LDW) Pedestrian Collision Warning (PCW) Traffic Sign Recognition (TSR) Headway Monitoring Warning (HMW) Forward Car Leaving (FCL) Traffic Light Detection (TLD) Solid Lane Departure Warning(SLW)
Driver Status Monitoring (DSM)	Distraction Prompt Fatigue Driving (Closing Eyes) Fatigue Driving (Yawn) Phone Call Smoking Seatbelt Unbuckled Tampering IR Interrupted Sunglasses
General Standard	
Product Dimension	113 mm × 71 mm × 68 mm (including mounting bracket).
Package Dimension	195 mm × 138 mm × 100 mm
Protection	IP4X (not water-proof)
Operating Temperature	-30 °C to 70°C
Operating Humidity	10% to 95% (non-condensing)
Storage Temperature	-40°C to 85°C
Product Weight	321 g (with mounting bracket)
With Package Weight	748 g
Storage	Supports dual TF card (up to 1TB each). Class 10 or above are recommended.
Image Format	JPEG
Indicator	GNSS Indicator: Solid light: Normal; Not on: Abnormal; Record Indicator: Solid light: Recording normal; Not on: Recording exception 4G indicator: Solid light: 4G signal is normal. Platform connected. Flashing: 4G signal is normal. Platform not connected. Not on: No 4G signal. Alarm Indicator: Flashing: Active Security Alarm Not on: Normal Power Status Indicator: Solid light: Device is on. Not on: Device is off. Wi-Fi Status Indicator: Solid light: Wi-Fi AP is on. App is connected. Flashing: Wi-Fi AP is on. APP is not connected. Not on. Wi-Fi AP is off.
Power Supply	11.8 V~16 V/23.5 V-36 V
Power Consumption	Max: 15 W
Language	English, Turkish, Portuguese, Spanish, Russian
System	Embedded System

▪ Dimension (Unit: mm)

▪ Wiring diagram

No	Interface Name	Interface Form	Interface Definition	Description
1	POWER	10-pin BMW Connector Socket Plug-In	1. ACC 2. CAN_L 3. CAN_H 4.5V_OUT 5. I/O #2 6. I/O #1 7. RS232_TX 8. RS232_RX 9. GND 10. VCC	10-pin BMW Female Connector connected to power cord.
2	Video Interface	16-pin male plug-in	1. RJ45_TXP 2. RJ45_TXN 3. RJ45_RXP 4. RJ45_RXN 5. AIN1 6. TVI_IN1 7. P12V0_CAM1 8. GND 9. P12V0_CAM2 10.TVI_IN2 11. P12V0_CAM3 12. GND 13. GND	16-pin male plug-in connected to video connection line 16-pin female plug-in.

			14.TVI_IN3 15. GND 16. CVBS_OUT	
3	CH3	4-pin BMW Male Connector	1. P12V0_CAM1 2. GND 3. TVI_IN1 4. AIN1	4-pin BMW Male Connector connects to 4-pin BMW Female Connector Camera
4	CH4	4-pin BMW Male Connector	1. P12V0_CAM2 2. GND 3. TVI_IN2 4. NA	4-pin BMW Male Connector connects to 4-pin BMW Female Connector Camera
5	CH5	4-pin BMW Male Connector	1. P12V0_CAM3 2. GND 3. TVI_IN3 4. NA	4-pin BMW Male Connector connects to 4-pin BMW Female Connector Camera
6	Video Output	4-pin Aviation Connector	1.NA 2. GND 3.NA 4. AV_OUT	4-pin Aviation Connector connects to 4-pin Aviation Female Connector display screen (additional power supply is required for display screen).
7	Network Interface	6-pin Aviation Connector	1. RJ45_TXN 2. RJ45_TXP 3. NA 4. RJ45_RXN 5. RJ45_RXP 6. NA	6-pin Aviation Connector connects to 6-pin Aviation Female Connector network cable
8	VCC	Half Stripped Lines	/	VCC connects to vehicle positive via the power connector.
8	ACC	Half Stripped Lines	/	ACC connects to vehicle ACC via the power connector.
8	GND	FORK Naked Terminal	/	GND connects to the ground line.
9	IO3/IO4/IO5	Half Stripped Lines	/	Connect the vehicle with the signal of left turning, right turning, and reverse turning.
10	RS232	MOLEX	1.5V 2. GND 3. RS232_TXD 4. RS232_RXD	Reserved connection to permission.
11	CAN_L	Half Stripped Lines	/	Connect the vehicle and transmit the data of the vehicle.
11	CAN_H	Half Stripped Lines	/	
12	I/O #2	4-pin BMW Male Connector	1. GND 2. I/O #2 3.NA 4.NA	Connects to alarm button, separate capture and upload alarm information to the platform.
13	I/O #1	4-pin BMW Male Connector	1. GND 2. I/O #1 3.NA 4.NA	

▪ **Packing list**

No	Name	Quantity	Picture	Specifications
1	Dashcam	1		Dashcam Size:113 mm × 71 mm × 68 mm
2	Power cord	1		Line length:3.9m
3	Video line	1		Line length:0.35m
4	L-type wrench	1		T8 plum blossom with column M5 hexagon Size：55mm*25mm
5	Install the bracket	1		Size:59.5mm*100mm
6	QUG	1		/

- **Available Model**
- AE-DI5052-G40 PRO US
- AE-DI5052-G40 PRO EU

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