



6 Channel All-In-One AI Dashcam

AD Max

Specification_(v1.0)



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Preface

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Product Name Explanation

AD Max is the dual-lens model with one built-in road-facing camera and one built-in cabin-facing camera.

Abbreviation Explanation

Acronym	Full Name
ADAS	Advanced Driver Assistance System
DSC	Driver Safety Cockpit
DMS	Driver Monitoring System
LDW	Lane Departure Warning
HMW	Headway Monitoring Warning
FCW	Forward Collision Warning
BSD	Blind Spot Detection System

Product Overview

Product Introduction

The AD Max is an AI-powered 6-channel dash cam that covers all scenarios both inside and outside the vehicle. It is designed to enhance driver safety and improve fleet management efficiency. Leveraging advanced AI technology, it actively detects risky driving events and unsafe behaviors, providing real-time alerts to drivers to help avoid potential hazards. The system also uploads event data to the fleet management platform for driver training purposes. Additionally, it transmits real-time vehicle location and operational data to the platform, offering high-quality remote communication and video playback to streamline fleet management and boost overall efficiency.

Product Features

- **Better Visibility At Night**

Built-in 4MP front-road black light, with a wider horizontal field of view and clearer images at night

- **High-Definition View With No Blind Spots**

Built-in 4MP rear-facing cabin lens, delivering higher-definition image quality and a wide viewing angle that eliminates blind spots.

- **Multi-Channel Recording Coverage**

Supports 1* AHD and 3* IPC cameras, enabling simultaneous recording on up to 6 video channels for complete inside and outside vehicle coverage.

- **Reliable Video Recording**

Built-in eMMC on-board chip-level storage (up to 256GB) ensures stable and secure storage of critical footage, preventing data loss.

- **Versatile Storage Modes**

Supports 1* Micro SD card (up to 1TB) alongside internal eMMC storage, with simultaneous recording of main and sub-streams.

- **Comprehensive Communication Options**

Built-in Wi-Fi, Bluetooth, and 4G modules for seamless network connectivity.

- **Precise Positioning**

Integrated inertial navigation module provides high-precision positioning for real-time vehicle location tracking.

- **Robust Data Security**

Features AES256 encryption and TLS1.3 protocol to fully protect data from unauthorized access.

- **Versatile Interfaces**

Includes 3*IO inputs, 1*IO output, 1*I Button interface, 1*CAN channel, and 2*RS232 channels.

- **Enhanced Privacy Protection**

Built-in DSC lens privacy cover effectively protects driver privacy when the vehicle is parked.

- **Easy Installation**

Plug-and-play power supply via OBD interface eliminates the need for vehicle modification, making installation quick and effortless.

- **Clear Intercom Audio**

Echo cancellation algorithm significantly improves two-way intercom quality for smooth, noise-free communication.

- **Strong Scenario Adaptability**

Supports parking sleep mode, with wake-up via remote 4G platform, IO, vehicle vibration, and other methods, adapting to various usage scenarios.

- **Comprehensive Vehicle Information**

Upgrade to Power Box Plus 2.0 to access vehicle CAN bus data analysis and gain complete control over vehicle status information.

- **Driving Behavior Detection**

Built-in 6-axis gravity sensor accurately detects aggressive driving behaviors such as rapid acceleration, hard braking, and sharp turns, helping to promote standardized driving.

AI Features

The AD Max uses advanced video analysis technology and machine vision to automatically detect road hazards and unsafe driver behaviors. The system continuously monitors and triggers both visual and auditory alerts to remind the driver to pay attention to safety. Additionally, relevant alarm footage is automatically uploaded to the cloud for real-time monitoring and review.

➤ ADAS Features Diagram

		
LDW	HMW	FCW

➤ DSC & DMS Features Diagram

			
Lens Covering	Yawning	Phone	Smoking
			
Distraction	No Driver	Seat belt	Fatigue Driving



The device features a built-in DSC algorithm for its internal camera. However, this system does not support precise fatigue detection. For accurate fatigue monitoring, we recommend connecting an external professional DMS camera, such as the C29N model. For further details, please contact Streamax support.

Specification

General	
Model	AD Max
System	Embedded Linux

Language	Options: Simplified Chinese, English, Spanish (Latin American), Portuguese (Latin American), French, Russian and Japanese, Traditional Chinese, Spanish (Europe) Default: English * The language includes both interface language and voice reminders. TTS supports only English
Video & Audio	
Video & Audio Recording	6-channel video (default: 2 channels; extension: 4 channels) + 1-channel audio
Max. Capability	● 4 ch- AI(ADAS+DSC+2*BSD or ADAS+DMS+2*BSD) 1080P@20fps (Built-in Black Light ADAS) + 1080P@15fps (Built-in DSC) + 1080P@15fps(AHD)+3*1080P@20fps (IPC) ● Non-AI PAL:1520P@20fps+1520P@20fps+1080P@25fps (AHD)+3*1080P@25fps (IPC) NTSC:1520P@20fps+1520P@20fps+1080P@30fps (AHD)+3*1080P@25fps (IPC)
Image Setup	Adjustable brightness, chroma, contrast, color saturation, and sharpness
Video Coding	Options: H.264 and H.265 Default: H.265
Audio Compression Standard	Options: ADPCM, G.711, and G.726. Default: ADPCM
Encoding Standard	Options: VBR and CBR. Default: VBR
Microphone	Built-in
Loudspeaker	Built in. Power: 3W, with adjustable volume, not less than 70 dB at 1 m distance
Parameters of road facing lens	
Sensor Type	1/1.79" 4-megapixel CMOS sensor
Shutter Speed	1/25s~1/20000s
Lens	Focal length: 3.7 mm HFOV: 127.4°±3°; VFOV: 69.2°±3°; DFOV: 149.2°±5°
Minimum Illuminance	Black light full color, 0.01Lux/F1.7

Lens Mount	Built-in lens
Wide Dynamic Range (WDR)	Digital WDR
Backlight Compensation	Supported
Signal-to-Noise Ratio (S/N)	≥48dB
Parameters of driver facing lens	
Sensor Type	1/3" 4-megapixel CMOS sensor
Shutter Speed	1/25s~1/20000s
Lens	Focal length: 2.2 mm HFOV: 130.5°±3°; VFOV:74.6°±3°; DFOV: 153.1°±5°
Lens Mount	Built-in lens
Wide Dynamic Range (WDR)	Digital WDR
Backlight Compensation	Supported
Signal-to-Noise Ratio (S/N)	≥42db
Infrared	Supported. The built-in environmental light sensor turns on/off the infrared automatically * Threshold: 4 lux from daytime to night, and 8 lux from night to daytime. There may be slight variations depending on the device. Please refer to actual measurements
LED Indicator Status	

Indicator Light	Icon	Off	On / Flashing
Power Indicator		No power supply	 Power supply normal
Alarm Indicator		No alarm currently	 (Flashing) Alarm triggered
GPS Signal Indicator		GPS positioning normal	 Positioning error  (Flashing) Poor positioning quality
Network Status Indicator		Connected to server	 Not connected to server  (Flashing) Airplane mode
WiFi Status Indicator		WiFi is in Disable or Client mode	 AP mode  WiFi error
Recording Status Indicator		Normal recording	 Recording stopped / Malfunction

Storage

Micro SD card	Micro SD card×1, (SDXC 64GB/128GB/256GB/512GB/1TB) Read/write rate: Class 10 or above is recommended
Build-in eMMC	Built-in eMMC on-board storage, Optional support 128GB/256GB

Sensor

Six-axis Sensor	Harsh acceleration, Harsh deceleration, Harsh cornering, and accident detection
Environmental Light Sensor	Supported, used as the cockpit camera, subject to day/night switching

Port

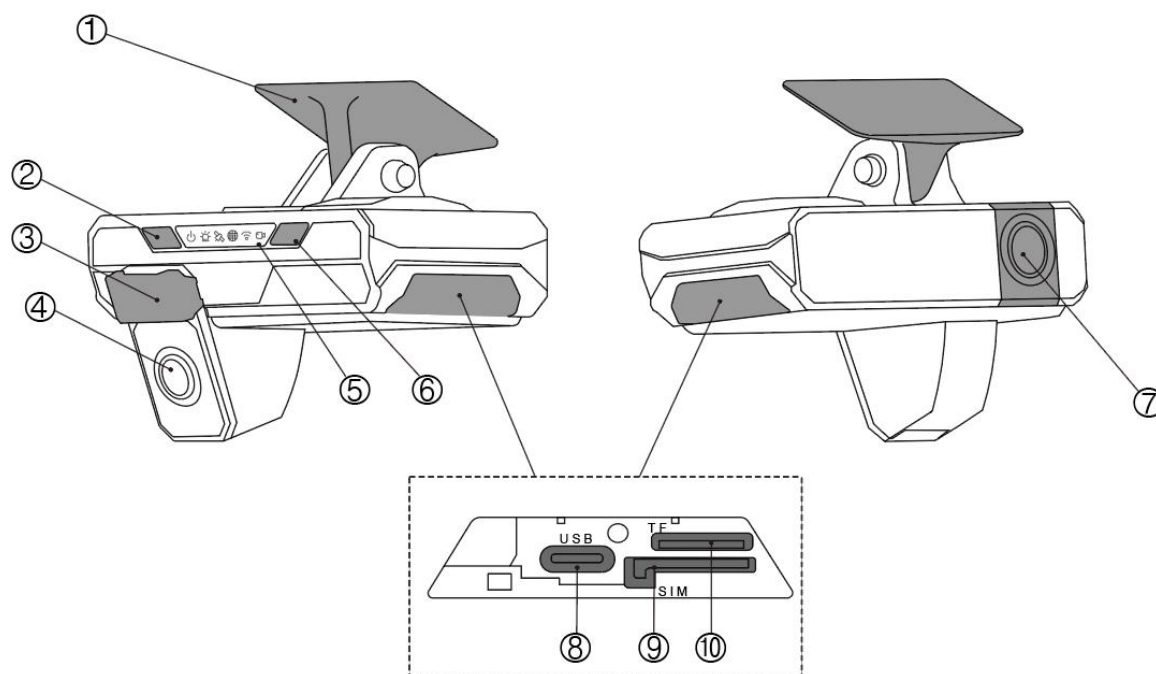
RS232	2-channel
I/O Port	3-channel input 1-channel output(Support direct power supply for the seat shaker)
CAN	1-channel (standard J1939 protocol)  Vehicle manufacturers may customize data fields, so the final data depends on actual measurements. If data is unsupported, a protocol can be provided for integration
iButton	1-channel
USB	1 × USB Type C port
Function button	2 1*Emergency Alarm Button; 1*Function button. To switch Wi-Fi to AP mode, press the button twice within 2 seconds.

	* For more details on the use of this button, please refer to the product's user manual
Network	
Wi-Fi	Support 2.4GHz/5GHz (IEEE Std.802.11b/g/n/ac)
Bluetooth	Support Bluetooth 2.1/3.0/4.X/5.2/5.3
4G	Plug-in SIM card (Nano SIM card), Reserved eSIM patch position, can support pre-burn-in eSIM. ● For North America: LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5 ● For Europe and Asia: LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM: B3/B8 ● For Latin America, Australia, New Zealand : LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40 WCDMA: B1/B2/B5/B8 GSM: B2/B3/B5/B8  An industrial SIM card (MP2) is required. The use of a standard SIM card (MP1) is prohibited. We are not responsible for any issues caused by the use of a standard SIM card
Positioning	
GNSS	Supported GPS/QZSS L1 C/A GALILEO E1(E1B+E1C) GLONASS L1OF BEIDOU: B1I SBAS: WAAS, EGNOS, MSAS, GAGAN
Power related	
Power supply	12V and 24V vehicles (self-adaptive)
Power	● In standby mode: 12V@3mA, 24V@1mA

consumption	● In sleep mode (4G,GNSS and MCU powered):12V@30-100mA、24V@10-50mA ● Typical power consumption (with dual SD cards installed and SIM card for dialing,6 channel video): 12V@1330mA、 24V@710mA ● Full-load power consumption (with dual SD cards installed, SIM card for dialing, Wi-Fi turned on, IPC and AHD connected, and infrared lamp turned on,seat shaker turned on): about 35W * The above data are test data obtained in a specific environment in the laboratory, and may vary with the individual product differences, service environment, and testing methods
Environment	
Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)
Storage Temperature	-40°C ~ +85°C (-40°F ~ +185°F)
Operating Humidity	15~95% non-condensing
Storage Humidity	15~95% non-condensing
Dimensions and Weight	
Dimensions LxWxH	Dashcam: 128.5 mm×71 mm×68.88 mm (excluding bracket); Deviation: ±2 mm Package: 201 mm×165 mm×116 mm; Deviation: ±3 mm
Weight	Net weight (device only): 340g Gross weight (including accessories and package): 1005g Deviation: ±10g
* The actual dimensions and weight may vary with the individual product differences, manufacturing processes, and testing methods.	
Package Contents	
AD Max ×1, power box 2.0 ×1, standard power cable ×1, Privacy cover × 1, 3-meter extension cable × 1, hex wrench ×1, mounting bracket ×1, bracket bolt ×1, pry tool ×1, desiccant ×1, alcohol wipe ×1 * Contents may vary depending on the region and specific requirements	

Product Appearance and Component Names

➤ AD Max Front & Side View

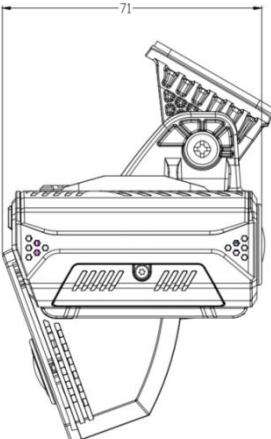
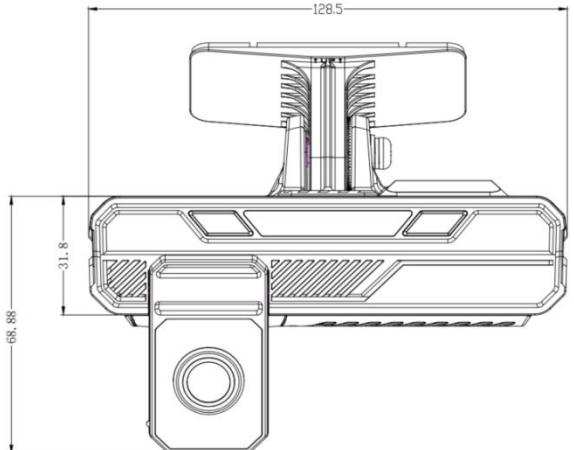
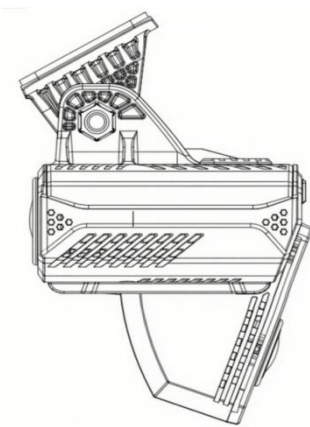
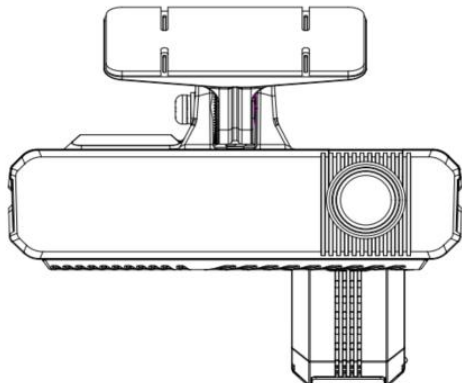


No.	Components	No.	Components
1	Installation Bracket	6	Function Button
2	Emergency Alarm Button	7	Road-facing Camera
3	Privacy Cover(optional)	8	USB Type C Port
4	Cabin-facing Camera	9	SIM Card Slot
5	Status Indicator Light	10	Micro SD Card Slot

Dimension Diagram

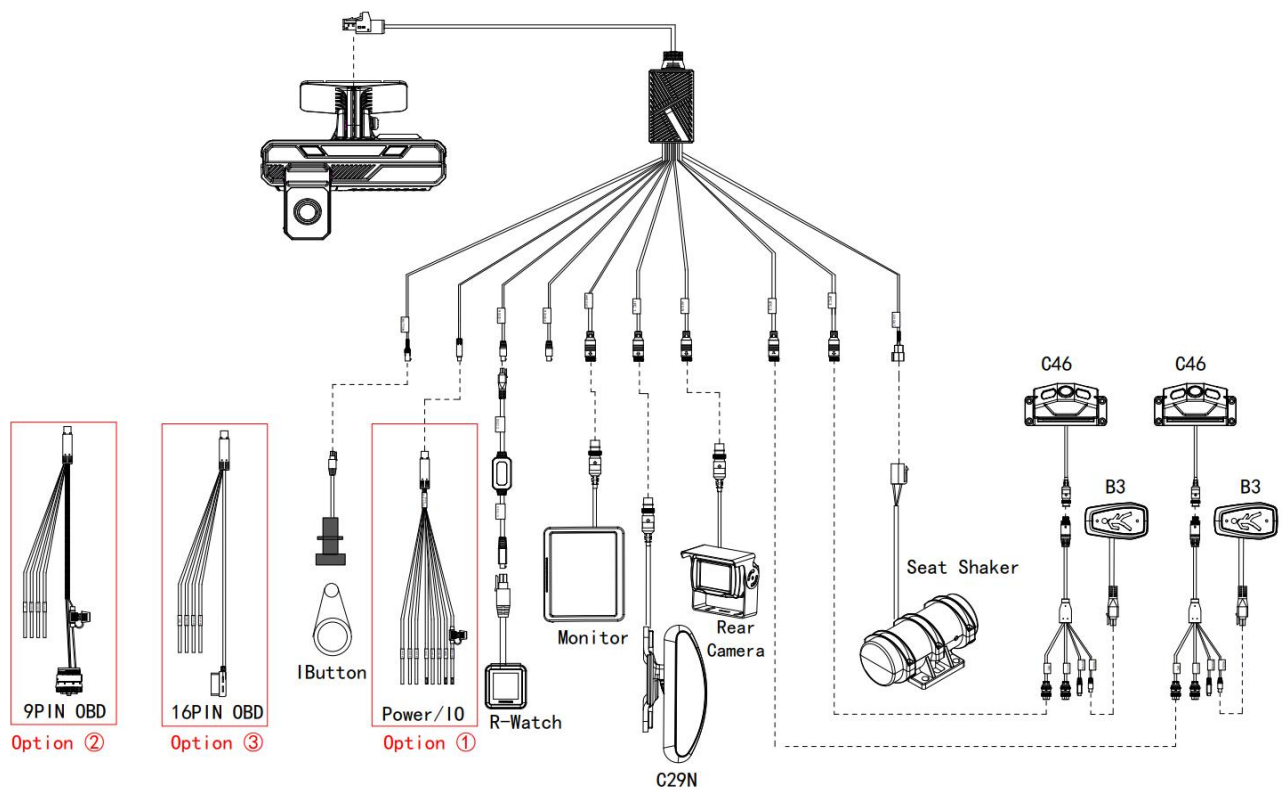
(Unit: mm)

AD Max:

	
Right View	Front View
	
Left View	Rear View

System Connection Diagram

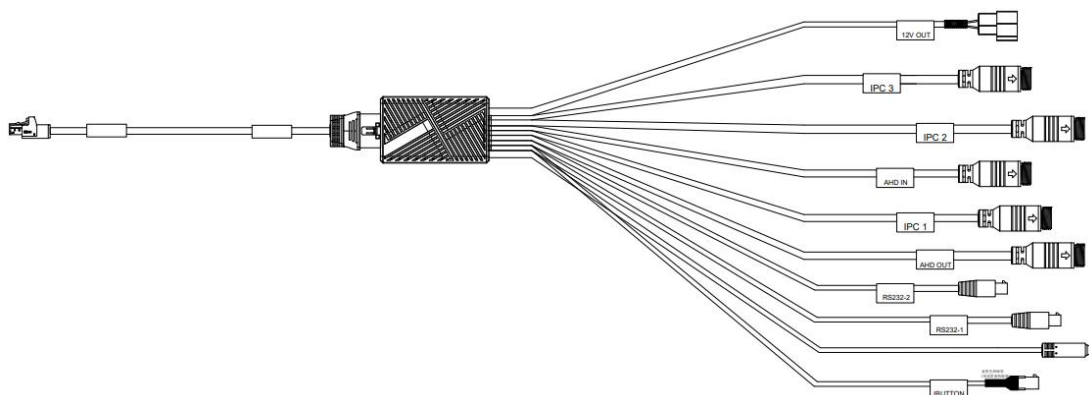
AD Max:



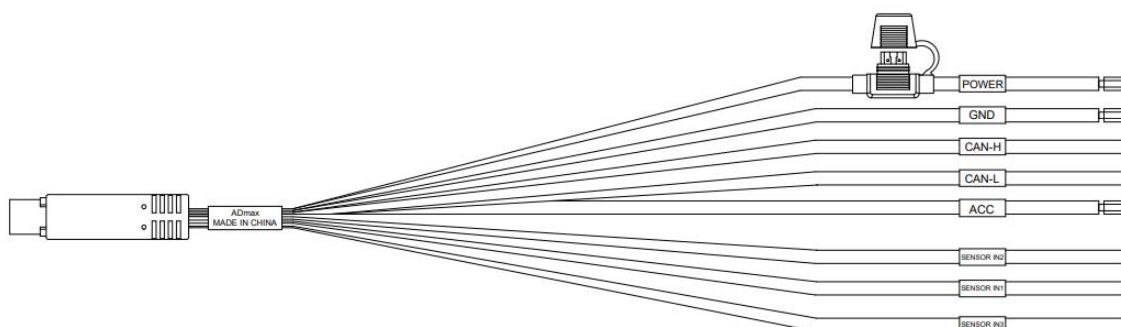
Note

- **iButton**: A peripheral device used for **driver identity verification**.
 - **R-Watch**: A peripheral device used for **driver safety alerts** through visual and audible warnings.
 - **Seat Shaker** : A peripheral device used for **driver safety alerts** through vibratory and tactile warnings
- All three accessory products need to be purchased separately.

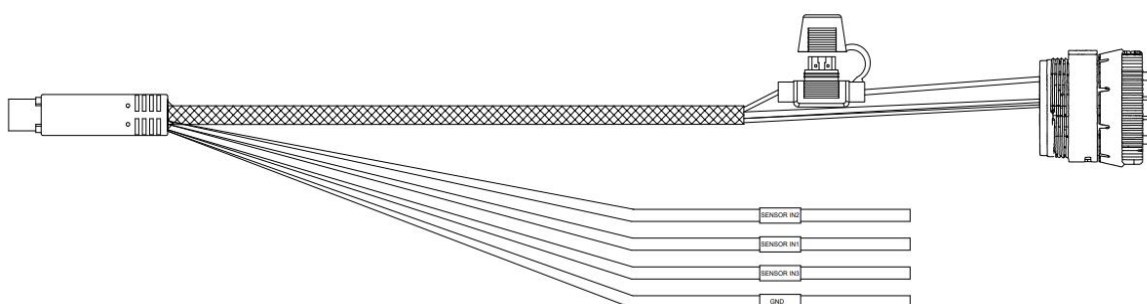
Cables



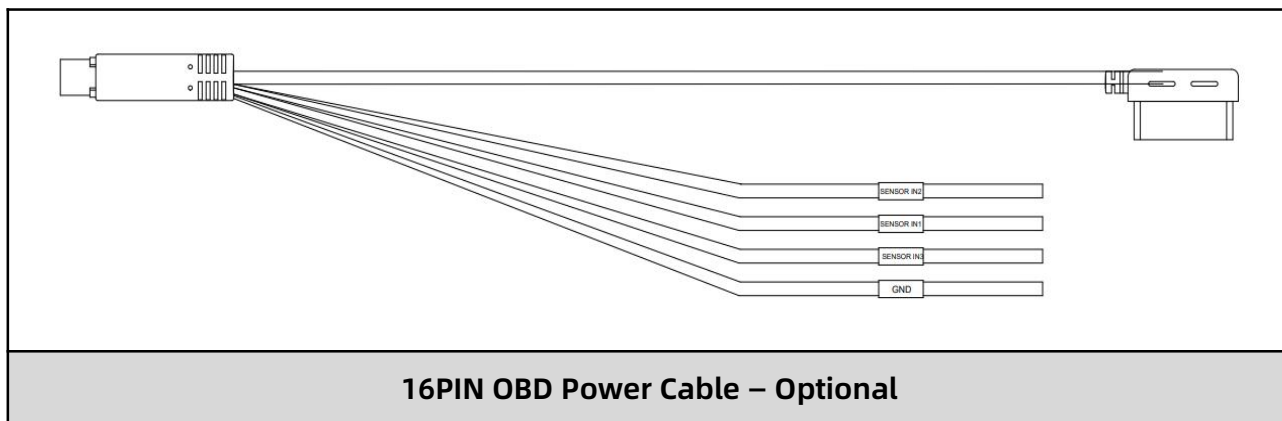
Standard Power Box



Open Wire ACC Power Cable



9PIN OBD Power Cable – Optional



Special Instructions

- This product requires installation by professionals; otherwise, there is a risk of electric shock, damage to the vehicle wiring, impact on AI performance, and device detachment.
- When used under direct sunlight, the surface temperature of this product may exceed 60°C. Please avoid touching the sun-exposed surface to prevent burns.
- The extended AHD channel does not support audio input.
- The extended screen output does not support audio, and the AD Max also does not support power supply to the screen.