

C6 Lite-SA - Dashcam



C6 Lite-SA is a dashcam that helps drivers to facilitate fleets to improve management efficiency. It transmits real-time and accurate vehicle position information and operation data to the fleet management platform. It provides high-quality remote intercom and video live view playback to make the fleet management easier and more efficient.

2. Functions and Features

- Ultra-wide 143° DFOV road facing lens, supporting up to 1080P UHD video recording
- Support up to 2-channel video recording
- H.264/H.265 encoding
- 2 x 256GB dual-Micro SD card storage, supporting the simultaneous storage of main streams and sub streams
- Built-in Wi-Fi, 4G communication module, and positioning module
- AES256 encryption for video/audio data, encryption protocol TLS1.3 for data transmission
- 4-channel IO input, 1-channel CAN and 1-channel RS232
- Compact design, not affecting the driver's sight regardless of vehicle size
- OBD power supply, easy installation
- Support echo & noise canceling algorithm to improve the quality of two-way audio communication
- Sleep mode, remote wakeup
- Built-in 6-axis gravity sensor, supporting rapid acceleration, rapid deceleration, harsh cornering, and accident detection

Specifications

Product model: C6 Lite-SA	
System	Embedded Linux
Language	Options: Chinese, English, Spanish (Latin American), Portuguese (Latin American), French, Russian and Japanese. Default: English. * The language includes interface language and voice reminder. TTS supports Chinese and English only.
Video/Audio	
Video/Audio Recording	2-channel video (default: 1 channel; extension: 1 channel) + 1-channel audio
Max. Capability	1080@25fps (Road facing) +1080P@25fps (AHD)
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
CBR/VBR	Options: VBR and CBR. Default: VBR
Audio	Built-in MIC
Loudspeaker	Built-in speaker, power: 3W, with adjustable volume, not less than 70 dB at 1 m distance
Parameters of road facing lens	
Sensor Type	1/2.8" 5-megapixel CMOS sensor
Shutter Speed	1/30s~1/100000s
Lens	Focal length: 2.6 mm HFOV: 114°; VFOV: 77°; DFOV: 143°; Deviation: ±5°
Minimum Illuminance	Color: 0.05 Lux/F1.2
Lens Mount	Built-in lens
Wide Dynamic Range (WDR)	Digital WDR

System	Embedded Linux
Language	Options: Chinese, English, Spanish (Latin American), Portuguese (Latin American), French, Russian and Japanese. Default: English. * The language includes interface language and voice reminder. TTS supports <u>Chinese and English only</u>
Video/Audio text object	
Video/Audio Recording	2-channel video (default: 1 channel; extension: 1 channel) + 1-channel audio
Max. Capability	1080@25fps (Road facing) +1080P@25fps (AHD)
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
CBR/VBR	Options: VBR and CBR. Default: VBR
Audio	Built-in MIC
Loudspeaker	Built-in speaker, power: 3W, with adjustable volume, not less than 70 dB at 1 m distance
Parameters of road facing lens	
Sensor Type	1/2.8" 5-megapixel CMOS sensor
Shutter Speed	1/30s~1/100000s
Lens	Focal length: 2.6 mm HFOV: 114°; VFOV: 77°; DFOV: 143°; Deviation: ±5°
Minimum Illuminance	Color: 0.05 Lux/F1.2
Lens Mount	Built-in lens
Wide Dynamic Range (WDR)	Digital WDR

Backlight Compensation	Supported
Signal-to-Noise Ratio (S/N)	$\geq 48\text{dB}$
LED Indicator Status	
Power Status Lights	 Off/Green Off: The device is not powered on Steady green: The device is powered normally
Alarm Indicator	 Off/Red Off: The device does not generate any alarm Red flashes three times: The device generates an alarm
GPS Signal Indicator	 Off/Red Off: The device positioning runs normally Steady red: The device positioning runs abnormally (not positioned, or module not connected or damaged) Red flash (once per second): The device positioning is poor
Network Status Indicator	 Off/Red Off: The device is connected to the server normally Steady red: The device is connected to the server abnormally Red flash (once per second): The device is in airplane mode * Airplane mode: Turning off the network signal of the dashcam to ensure safety when the vehicle enters the gas station.
Wi-Fi Status Indicator	 Off/Red/Green Off: The device is in Disable or Client mode Steady green: The device is in AP mode Steady red: The device Wi-Fi runs abnormally

Recording Status Indicator	 Off/Red Off: The built-in or extended camera runs normally Steady red: The built-in or extended camera stops (including privacy mode)/fails
	When the video recording function is enabled (main stream and sub stream), the prompt will be given if no recording is detected. If the video recording function is disabled (main stream and sub stream), it will be regarded as normal recording status.
Storage	
Micro SD card	Micro SD card×2, (SDXC 32GB/64GB/128GB/256GB) Read/write rate: Class10 or above is recommended
Sensor	
Six-axis Sensor	Harsh acceleration, Harsh deceleration, Harsh cornering, and accident detection
Port	
RS232	1-channel
I/O Port	4-channel input
CAN	1-channel (standard J1939 protocol)  Warning: As some data fields may be customized by automobile manufacturers, the final measured data shall prevail. In the event that any required data is not supported, the integrated development is acceptable based on a specific protocol.
USB	1 × mini USB port
Button	1 To switch Wi-Fi to AP mode, press the button twice within 2s. * For details of other buttons, refer to the user manual of the product.
Network	
Wi-Fi	Support 2.4G (IEEE Std.802.11a/IEEE Std.802.11b/IEEE Std.802.11g)

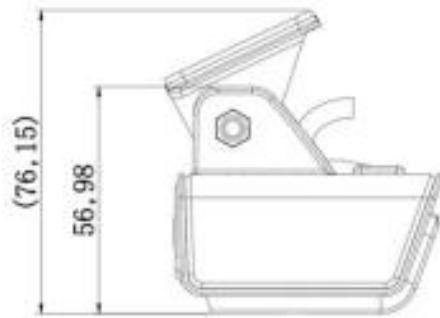
	/IEEE Std.802.11n)
4G	<p>Plug-in SIM card (Nano SIM card)</p> <ul style="list-style-type: none"> For North America <p>LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71</p> <p>WCDMA: B2/B4/B5</p> <ul style="list-style-type: none"> For Europe and Asia: <p>LTE FDD: B1/B3/B7/B8/B20/B28A</p> <p>WCDMA: B1/B8</p> <p>GSM: B3/B8</p> <ul style="list-style-type: none"> For Latin America: <p>LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28</p> <p>LTE TDD: B40</p> <p>WCDMA: B1/B2/B5/B8</p> <p>GSM: B2/B3/B5/B8</p> <p> Warning: The industrial SIM card (MP2) is required, and the ordinary SIM card (MP1) is prohibited. We are not responsible for any problem caused by the use of any ordinary SIM card.</p>
Positioning	
GNSS	<p>Supported</p> <p>GPS L1 1575.42MHz</p> <p>SBAS: WAAS, EGNOS, MSAS, GAGAN</p>
Power Related	
Power supply	12V and 24V vehicles (self-adaptive)
Power consumption	<ul style="list-style-type: none"> In standby mode: 13.5V@5.67mA, 27V@3.4mA In sleep mode (4G and MCU powered): 13.5V@59~118mA, 27V@29~53mA

	<ul style="list-style-type: none"> ● Typical power consumption (with dual SD cards installed and SIM card for dialing): about 4.79W ● 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): about 6.78W <p>* 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.</p>
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
IP Rating	IP30 * The Dashcam is non-waterproof
Dimensions and Weight	
Dimensions L×W×H	Dashcam: 113.0 mm×67.8 mm×57 mm (excluding bracket); Deviation: ±2 mm Package: 176 mm×150 mm×114 mm; Deviation: ±3 mm
Weight	Net weight (device only): 265g Gross weight (including accessories and package): 715g Deviation: ±10g
* The actual dimensions and weight may vary with the individual product differences, manufacturing processes, and testing methods.	
Package Contents	

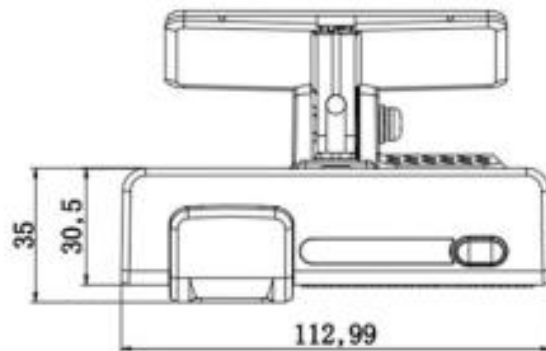
C6 Lite-SA ×1, power supply box ×1, standard power cable ×1, Allen key ×1, mounting bracket ×1, bracket bolt ×1, crowbar ×1, desiccant ×1, and alcohol cotton×1

* The configuration may vary in different regions.

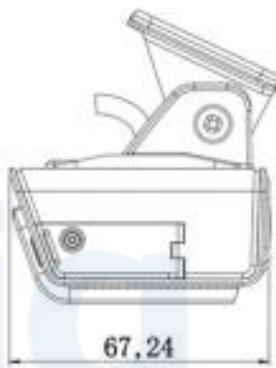
Dimensional Drawings (Unit: mm)



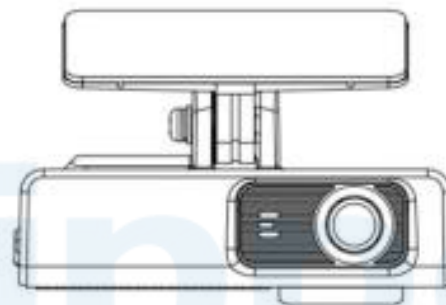
Left view



Front view



Right view

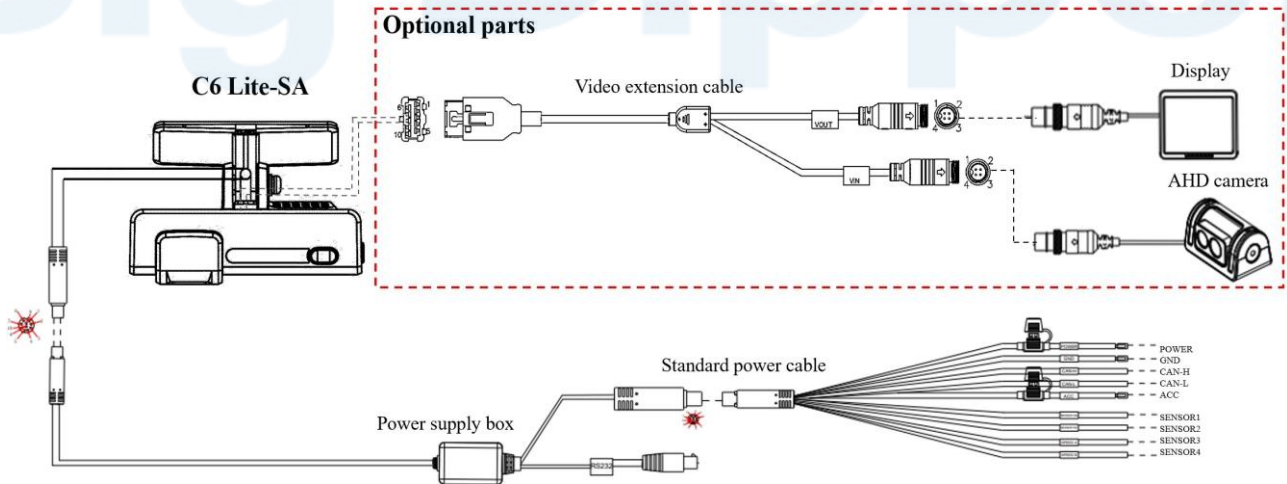


Rear view

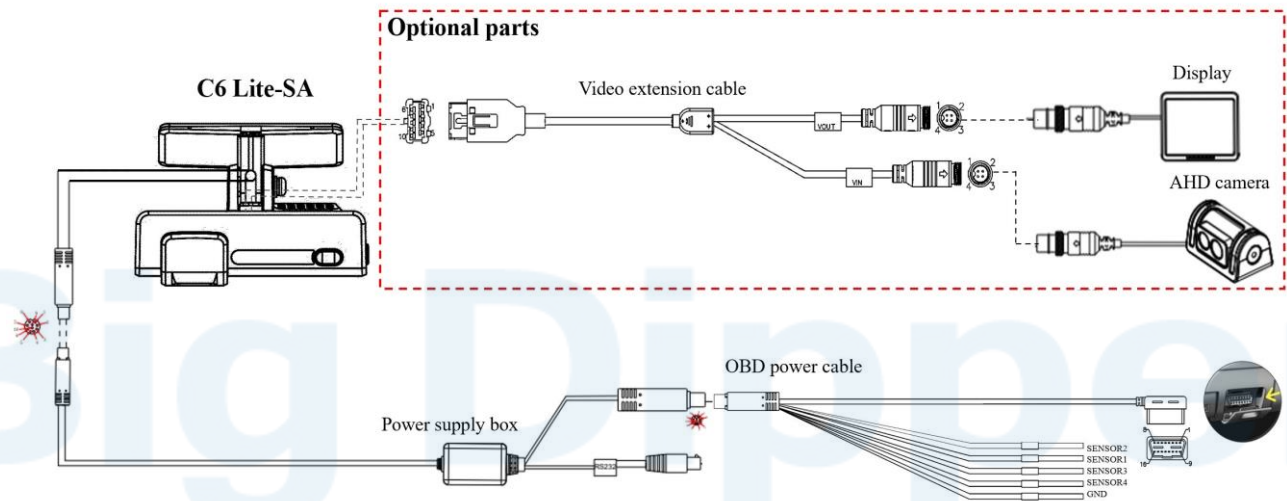
System Connection Diagram

The standard packing list contains a standard power cable that supports ACC power supply and vehicle connection. You can select OBD power cable which support OBD power supply and vehicle connection.

Connection Diagram of ACC Power Supply System

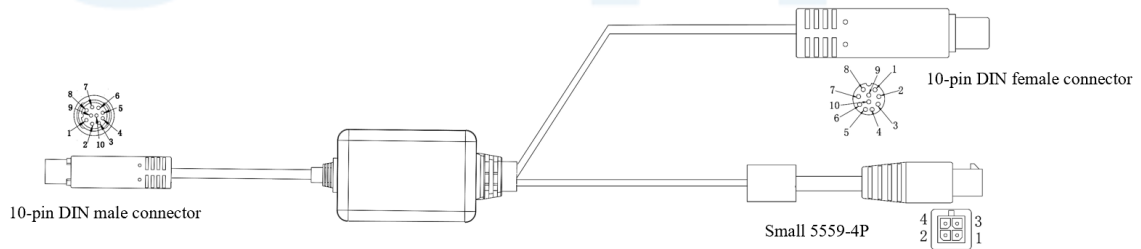


Connection Diagram of OBD Power Supply System



Cable Connector Pinouts

Power Supply Box Connector Pinout

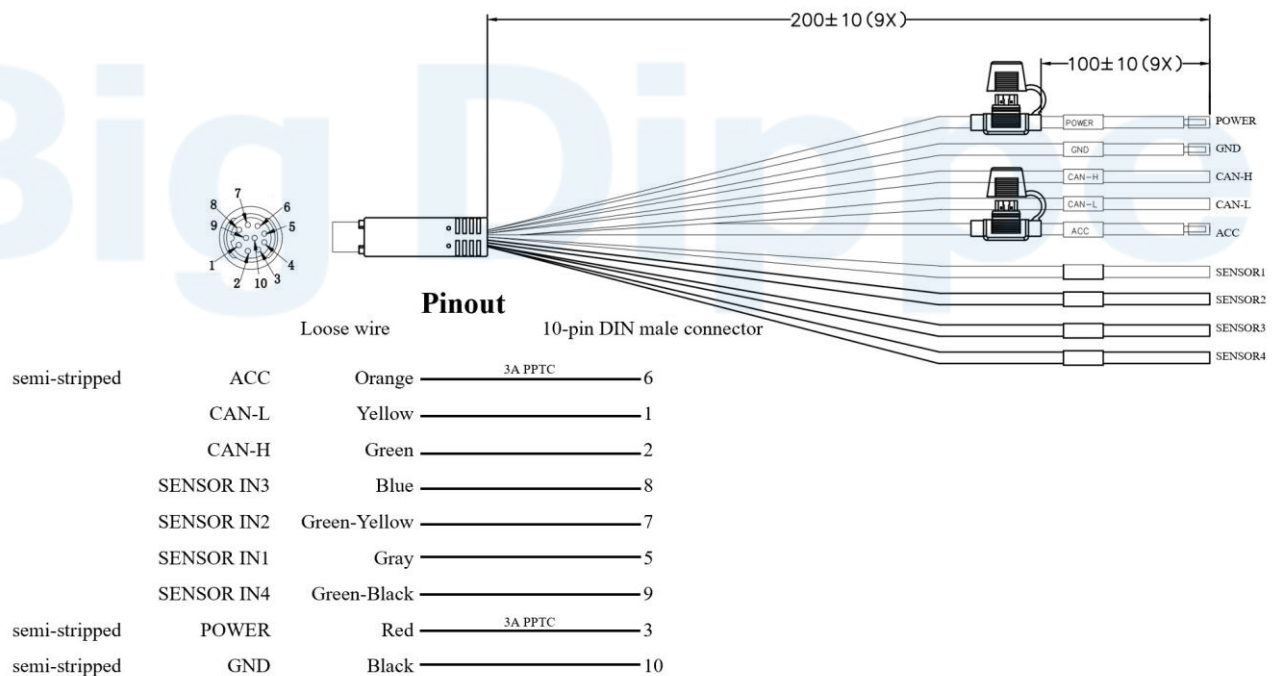


Pinout		10-pin DIN male connector	
TJC3-12PIN-P1.25			
1+2	10	DC+	Red+Red-White
3+4	9	DC-	Black+Black-White
5	8	TX	White
6	7	RX	Brown
7	6	SIN1	Purple
8	5	SIN2	Blue
9	4	3.3V	Gray
10	3	CAN-H	Green
11	2	CAN-L	Yellow
12	1	ACC	Orange

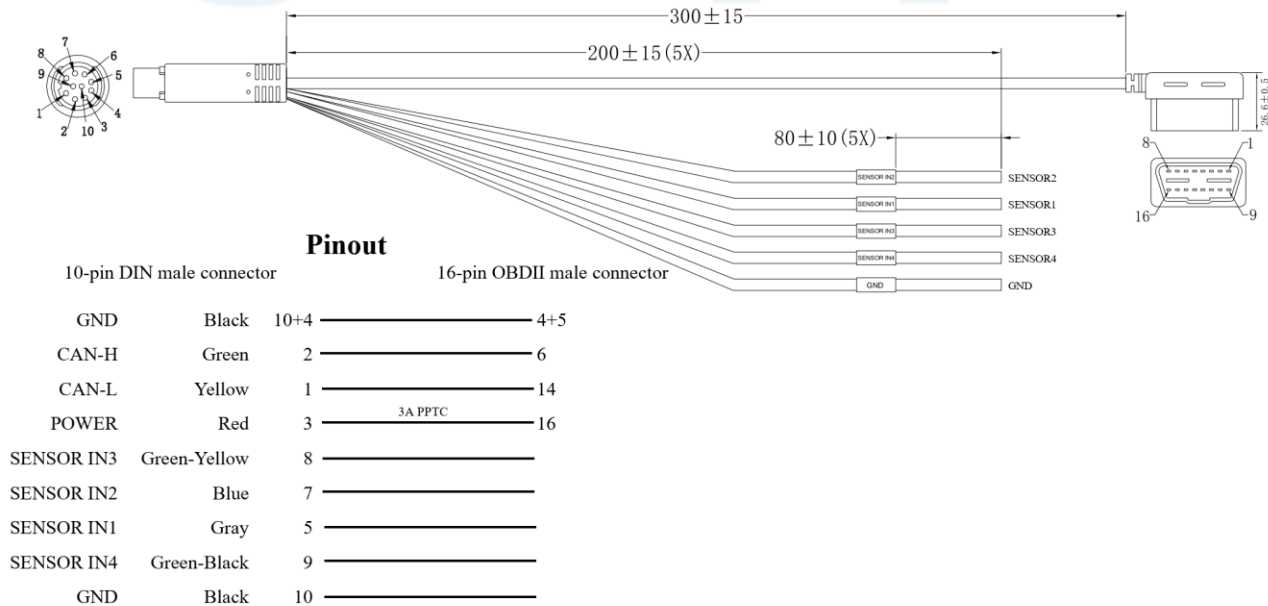
Pinout		10-pin DIN female connector	
TJC3-12PIN-P1.25			
1+2	10	GND	Black+Black-White
3+4	3	24V+	Red+Red-White
7	5	SIN1	Purple
8	7	SIN2	Brown
10	2	CAN-H	Green
11	1	CAN-L	Yellow
12	8	SIN3	Blue
13	9	SIN4	Gray
14	6	ACC	Orange
15	4	OBD-CHK	White

Pinout		Small 5559-4P	
TJC3-2PIN-P1.25			
1	1	+12V	Pink
2	3	+5V	Blue-White
TJC3-15PIN-P1.25			
9	7	GND	Black
6	2	232TX	Green
5	1	232RX	Yellow

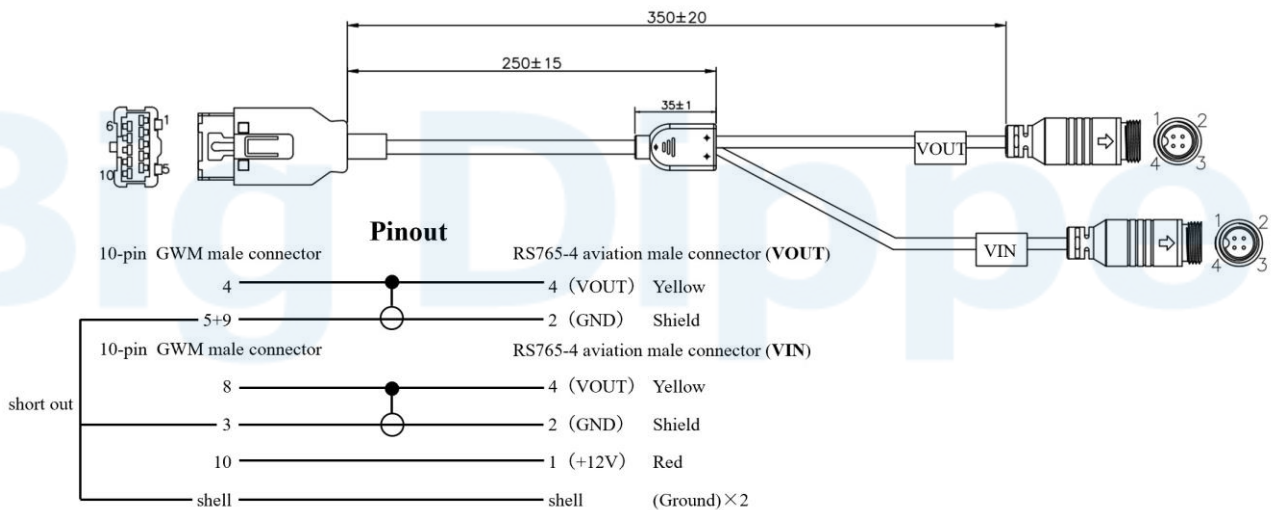
Standard Power Cable Connector Pinout



OBD Power Cable Connector Pinout



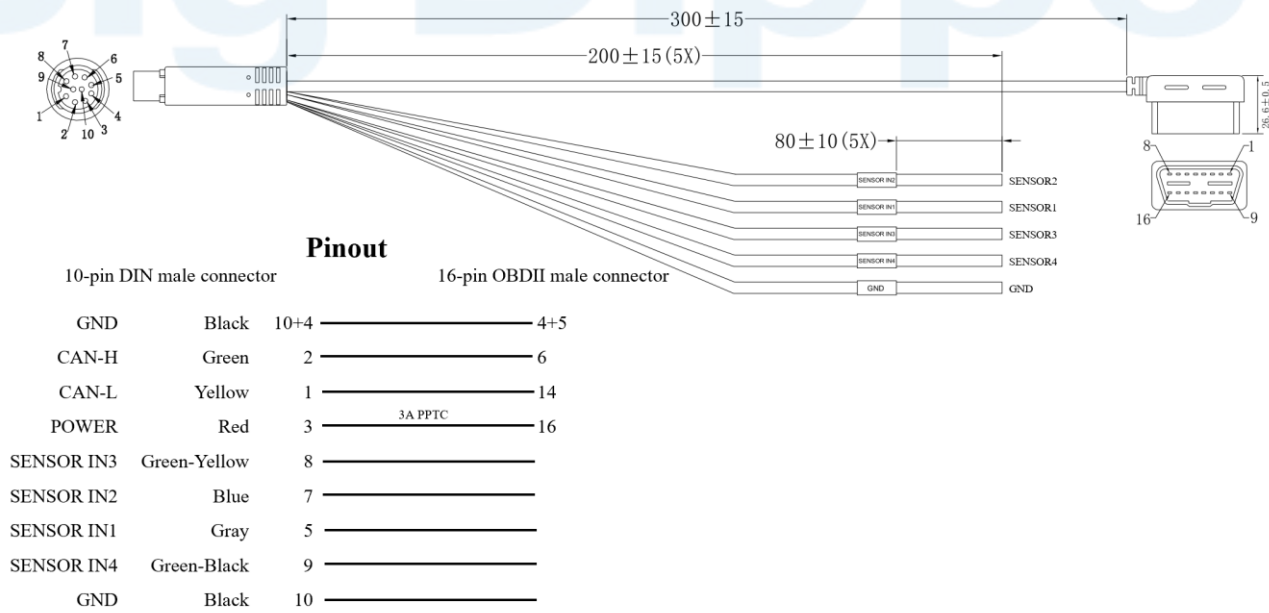
Video Output Cable Connector Pinout



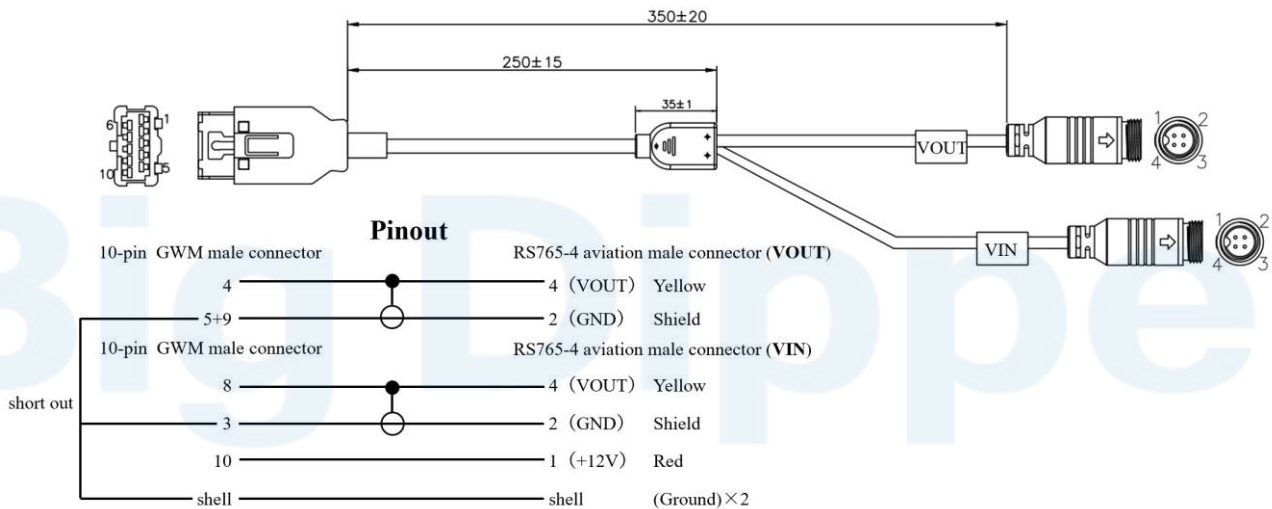
Notice

- 1) The product needs to be installed by professionals, otherwise, there may be a risk of electric shock, damage to vehicle lines and device falling-off.
- 2) The surface temperature may exceed 60°C when the product is in use under direct sunlight.

OBD Power Cable Connector Pinout



Video Output Cable Connector Pinout



Notice

- 1) The product needs to be installed by professionals, otherwise, there may be a risk of electric shock, damage to vehicle lines and device falling-off.
- 2) The surface temperature may exceed 60°C when the product is in use under direct sunlight. Please do not touch the surface exposed to direct sunlight to avoid burns.