



VT3600 Installation Guide



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Abbreviations Explanation

VBR	Variable Bit Rate
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CBR	Constant Bit Rate
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1. Product Introduction

The **VT3600** is a connected dashcam that helps to maximise fleet efficiency. It transmits real-time, accurate vehicle positional information and operational data to our fleet management platform. It also provides high-quality remote intercom and live view video playback to make fleet management even easier and highly efficient.

2. Functions and Features

- Ultra-wide 143° DFOV forward-facing lens, supporting up to 1080P full-HD video recording
- Supports 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 that won't affect the driver's view of the road regardless of the vehicle size
- OBD power supply, easy plug-and-play installation
- Supports an echo and noise-cancelling algorithm to improve the quality of the two-way audio communication
- Sleep mode, remote wakeup
- Built-in 6-axis G-shock sensor, supporting rapid acceleration, rapid deceleration, harsh cornering, and incident detection

3. Specifications

Product model: VT3600

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
Maximum Capability	1080@25fps (Road-facing) +1080P@25fps (AHD)
Image Setup	Adjustable brightness, chroma, contrast, colour 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 70dB at 1m distance

Parameters of road-facing lens

Sensor Type	1/2.8" 5-megapixel CMOS sensor
Shutter Speed	CMOS sensor shutter speed
Lens	Focal length: 2.6 mm HFOV: 114°; VFOV: 77°; DFOV: 143°; Deviation: ±5°
Minimum Illuminance	Colour: 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)	≥48dB

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: Turn off the network signal of the dashcam to ensure safety when the vehicle enters a petrol 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 incident detection

Port

RS232 1-channel

I/O Port 4-channel input

CAN 1-channel (standard J1939 protocol)



Warning: As some data fields may be customised by vehicle manufacturers, the final measured data will 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.

Network

Wi-Fi Supports 2.4G (IEEE Std.802.11a/IEEE Std.802.11b/IEEE Std.802.11g//IEEE Std.802.11n)

4G Plug-in SIM card (Nano SIM card)

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

Network

4G

For Latin America:

LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28

LTE TDD: B40

WCDMA: B1/B2/B5/B8

GSM: B2/B3/B5/B8



Warning: Industrial SIM cards (MP2) are required. We are not responsible for any problems caused as a result of using ordinary SIM cards.

Positioning

GNSS

Supported

GPS L1 1575.42MHz

SBAS: WAAS, EGNOS, MSAS, GAGAN

Power Related

Power supply

12V and 24V vehicles (self-adaptive)

Power consumption

- In standby mode: 13.5V@5.67mA, 27V@3.4mA
- In sleep mode (4G and MCU powered): 13.5V@59~118mA, 27V@29~53mA
- Typical power consumption (with dual SD cards installed and SIM card for dialling): about 4.79W
- Full-load power consumption (with dual SD cards installed, SIM card for dialling, Wi-Fi turned on, IPC and AHD connected, and infrared lights turned on): about 6.78W

* The above data is test data obtained in a specific environment in a laboratory, and may vary with individual products, service environments, 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
IP Rating	IP30 (The Dashcam is non-waterproof)

Dimensions and Weight

Dimensions L x W x H	<ul style="list-style-type: none"> • Dashcam: 113 mm x 67.3 mm x 57 mm (excluding bracket); Deviation: ±2 mm • Package: 176 mm x 150 mm x 14 mm; Deviation: ±3 mm
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Weight	<ul style="list-style-type: none"> • Net weight (device only): 265g • Gross weight (including accessories and package): 715g • Deviation: ±10g
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* The actual dimensions and weight may vary with the individual product differences, manufacturing processes, and testing methods.

Package Contents

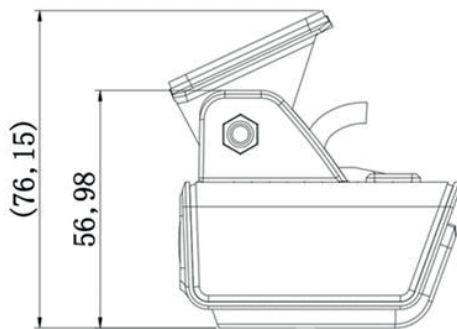
- **VT3600** x1
- **Power supply** x1
- **Standard power cable** x1
- **Allen key** x1
- **Mounting bracket** x1
- **Bracket bolt** x1
- **Lever** x1
- **Desiccant** x1
- **Alcohol cotton** x1

* The configuration may vary in different regions.

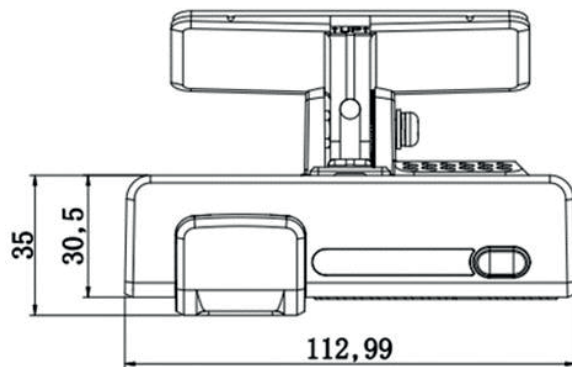
4. Dimensional Drawings (Unit: mm)

Take out the Dashcam (power-off), and use the Allen key in the kit to open the card slot panel on the right of the Dashcam by turning counterclockwise.

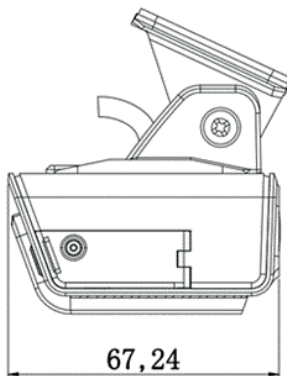
Left view



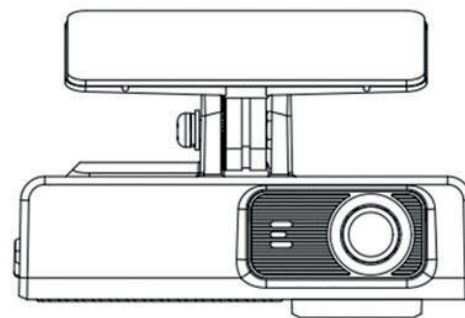
Front view



Right view



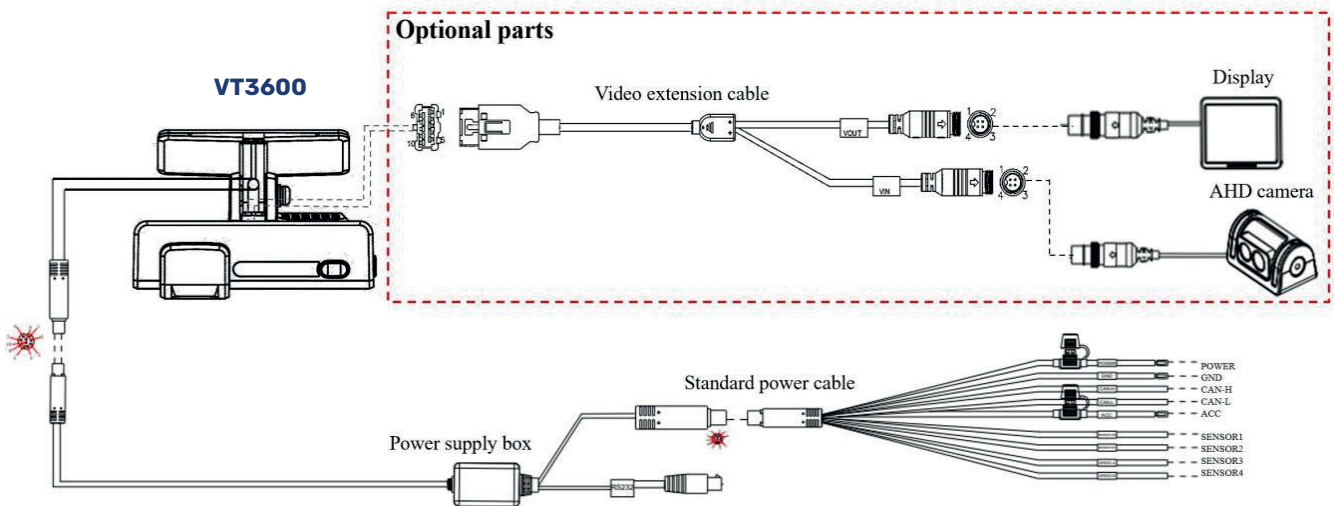
Rear view



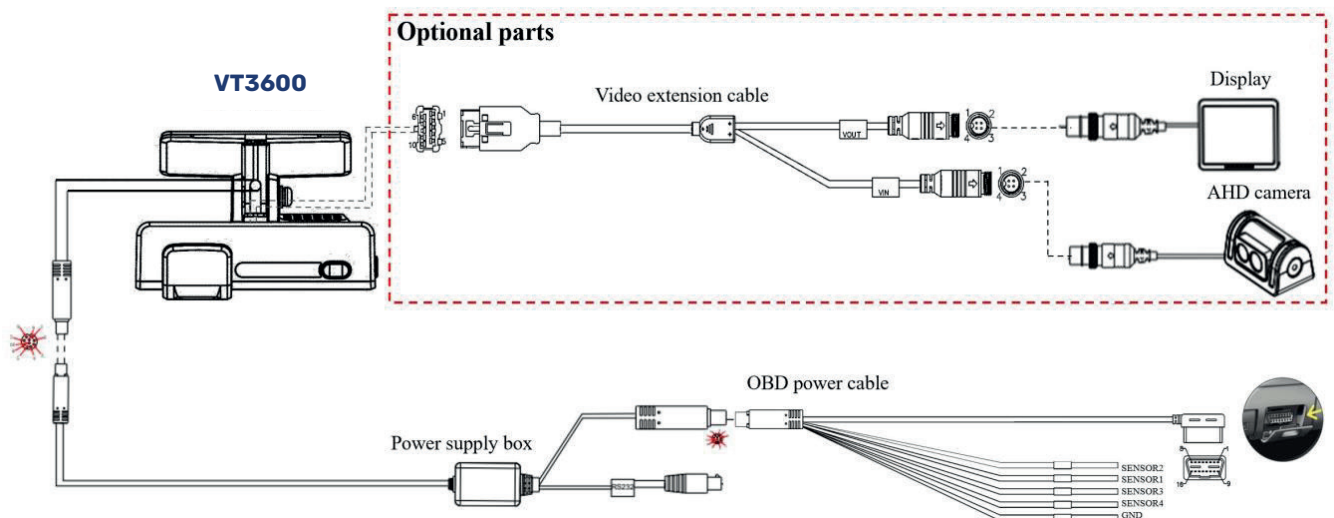
5. System Connection Diagram

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

5.1 Connection Diagram for ACC Power Supply System

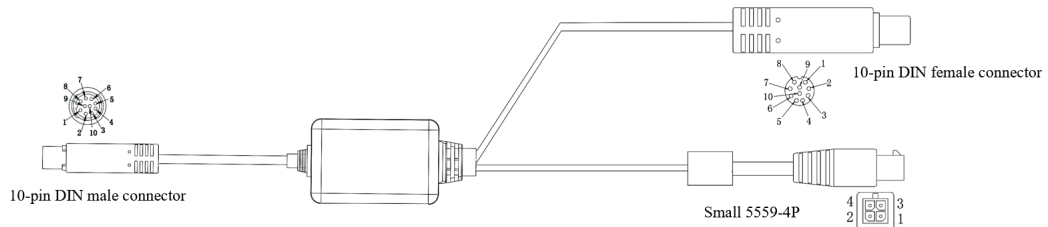


5.2 Connection Diagram for OBD Power Supply System



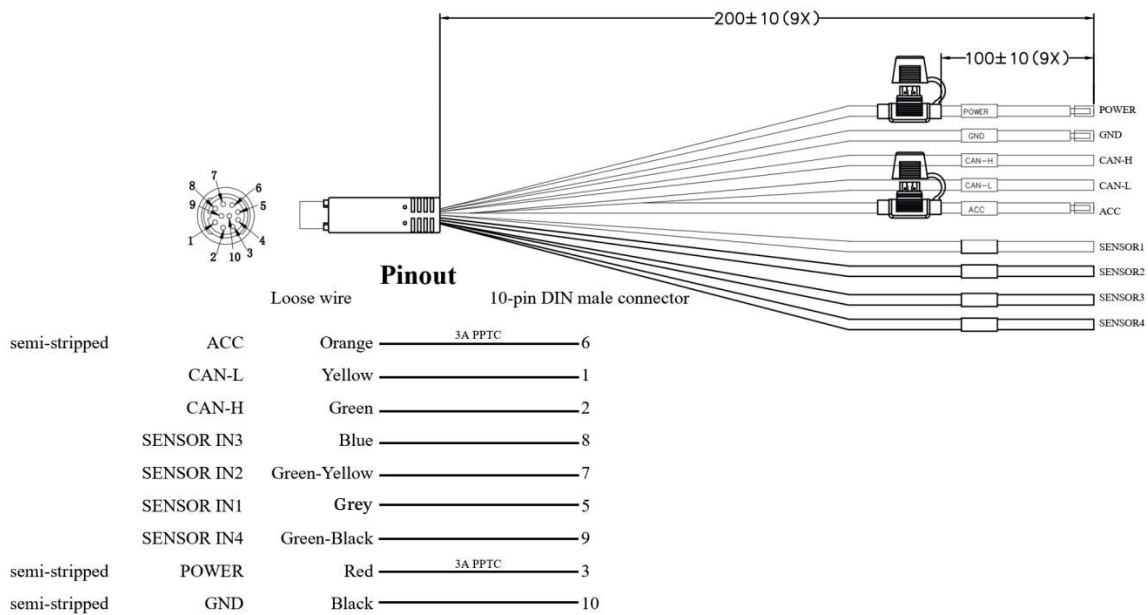
5.3 Cable Connector Pinouts

5.3.1 Power Supply Box Connector Pinout

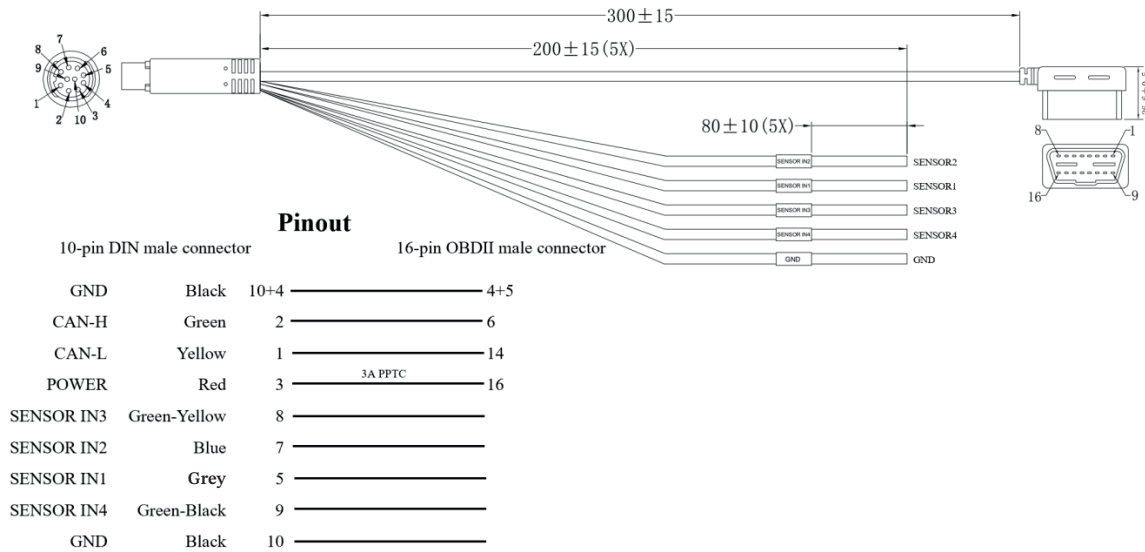


Pinout			Pinout			Pinout		
TJC3-12PIN-P1.25	10-pin DIN male connector		TJC3-12PIN-P1.25	10-pin DIN female connector		TJC3-2PIN-P1.25	Small 5559-4P	
1+2	10 DC+	Red+Red-White	1+2	10 GND	Black+Black-White	1	1 +12V	Pink
3+4	9 DC-	Black+Black-White	3+4	3 24V+	Red+Red-White	2	3 +5V	Blue-White
5	8 TX	White	7	5 SIN1	Purple			
6	7 RX	Brown	8	7 SIN2	Brown			
7	6 SIN1	Purple	10	2 CAN-H	Green			
8	5 SIN2	Blue	11	1 CAN-L	Yellow			
9	4 3.3V	Grey	12	8 SIN3	Blue			
10	3 CAN-H	Green	13	9 SIN4	Grey			
11	2 CAN-L	Yellow	14	6 ACC	Orange			
12	1 ACC	Orange	15	4 OBD-CHK	White			

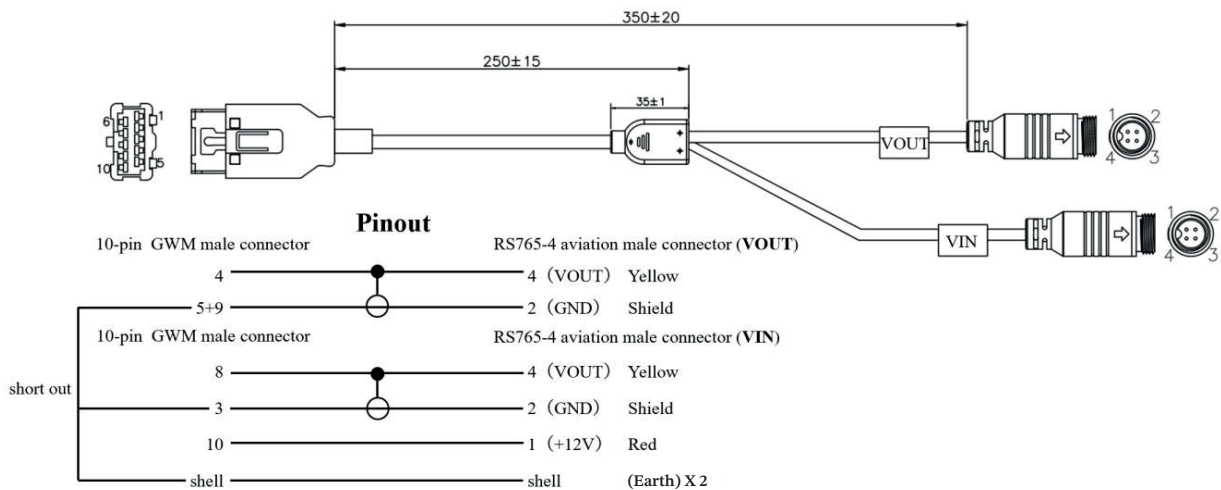
5.3.2 Standard Power Cable Connector Pinout



5.3.3 OBD Power Cable Connector Pinout



5.3.4 Video Output Cable Connector Pinout




6. Notice

1. The product needs to be installed by a professional, otherwise there may be a risk of electric shock or damage to the vehicle.
2. The surface temperature may exceed 60°C when the product is in use under direct sunlight.
3. Please do not touch the surface exposed to direct sunlight to avoid any injury.



Direct Commercial Ltd

Redwing House
Colchester Road
Chelmsford
Essex CM2 5PB

 +44 (0) 124 545 9700

 enquiries@directcommercial.co.uk

 www.directcommercial.co.uk

