FleetFusion AI

Enhancing Road Safety with
Advanced Video Telematics

FS-AD-PLUS-2.0-D



AI-powered dual-lens dashcam

This innovative dual-lens dashcam enhances driving safety and fleet management with AI technology, offering high-definition video recording and real-time monitoring.

KEY FEATURES

Ultra-wide 140° DFOV road-facing lens
Captures up to 1920P UHD video for clear and detailed footage.

Up to 2 x 256GB dual Micro SD card storage
Ensures simultaneous storage of both main and sub-stream videos.

Ultra-wide 170° DFOV driver-facing lens
Captures up to 1920P UHD video for clear and detailed footage.

Built-in Wi-Fi and 4G communication module
Seamlessly integrates with fleet management systems.

Support for up to 4-channel video recording
Expands monitoring capabilities with additional video channels.

AES256 data encryption for secure storage
Protects video/audio data with the highest security standards.

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KEY BENEFITS

Advanced Safety Monitoring

Real-time alerts for road risks and unsafe driving behaviors.

Secure & Reliable Data Storage

Up to 2 x 256GB micro SD cards with encrypted video and audio storage enabling dual recording modes - SD & HD.

Efficient Fleet Management

Seamlessly uploads driving events to the cloud for monitoring and training.

Compact and Versatile Design

Streamlined design that doesn't obstruct the driver's view.

High-Quality Video & Audio

Delivers ultra-wide, high-definition video and crystal-clear audio.

Easy Installation & Integration

Optional OBD power supply with a simple plug-and-play setup.

ADAS & DSM FUNCTIONS

ADAS FUNCTIONS



Lane Departure



Tailgating Detection



Forward Collision



Pedestrian Collision

DSM FUNCTIONS



Driver Fatigue



Mobile Phone Usage



Smoking



Driver Distraction



No Driver Present



No Seat Belt Detection

SPECIFICATIONS TABLE

Full Specifications:

Feature	Specification
System	Embedded Linux
Language Options	Chinese, English, Spanish (Latin American), Portuguese (Latin American), French, Russian, Japanese. Default: English. **The language includes interface language and voice reminders. TTS supports Chinese and English only.*
Video/Audio Recording	4-channel video (default: 2 channels, extension: 2 channels) + 1-channel audio.
Maximum Capability (with 2-channel AI)	1920P @ 25 fps (ADAS) + 1080P @ 25 fps (DSC) + 1080P @ 25 fps (AHD) + 800P @ 20 fps (DMS).
Image Setup	Adjustable brightness, chroma, contrast, color saturation, and sharpness.
Video Coding Options	H.264 and H.265 (default: H.265).
Audio Compression	ADPCM, G.711, G.726 (default: ADPCM).
CBR/VBR	VBR and CBR (default: VBR).
Audio Features	Built-in MIC; speaker with adjustable volume (70 dB output at 1 meter).

Road-Facing Lens:

Feature	Specification
Sensor Type	1/2.7" 5-megapixel CMOS sensor.
Shutter Speed	1/30 s ~ 1/100,000 s.
Lens	Focal length: 2.8 mm; HFOV: 123°, VFOV: 65°, DFOV: 140° ±5°.
Minimum Illuminance	Color: 0.05 Lux/F1.2.
Lens Mount	Built-in lens.
Wide Dynamic Range	Digital Wide Dynamic Range (WDR).

Backlight Compensation	Supported.
Signal-to-Noise Ratio	≥48 dB.

Driver-Facing Lens:

Feature	Specification
Sensor Type	1/2.9" 2-megapixel CMOS sensor.
Shutter Speed	1/30 s ~ 1/100,000 s.
Lens	Focal length: 2.2mm; HFOV: 151°, VFOV: 84°, DFOV: 170° ±5°.
Lens Mount	Built-in lens.
Wide Dynamic Range	Digital Wide Dynamic Range (WDR).
Backlight Compensation	Supported.
Signal-to-Noise Ratio	≥45 dB.
Infrared Lamp	Built-in environmental light sensor automatically turns the lamp on/off. ***Threshold:*** *4 lux from daytime to night, and 8 lux from night to daytime. There may be some deviations for different devices. Please refer to the actual measurements.*

LED Indicator Status:

Feature	Specification
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:

Feature	Specification
MicroSD Cards	Dual Micro SD slots (supports 32GB, 64GB, 128GB, 256GB each).
Recommended Rate	Class 10 or above.

Sensor:

Feature	Specification
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:

Feature	Specification
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 eventthat any required data is not supported, the integrated development is acceptable based on a specific protocol.
USB	x1 mini USB port
Button	x1 To switch Wi-Fi to AP mode, press the button twice within 2 s. ** For details of other buttons, refer to the user manual of the product.*

Network:

Feature	Specification
Wi-Fi	Support 2.4 GHz (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 • 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: *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.*

Positioning:

Feature	Specification
GNSS	Supported GPS L1 1575.42MHz GALILEO E1B/C1 GLONASS L1OF 1602MHz SBAS: WAAS, EGNOS, MSAS, GAGAN

Power:

Feature	Specification
Power supply	12V and 24V vehicles (self-adaptive)
Power consumption	• In standby mode: 13.5 V @ 5.67 mA, 27 V @ 3.39 mA • In sleep mode (4G and MCU powered): 13.5 V @ 62~124 mA, 27 V @ 32~61 mA • Typical power consumption (with dual SD cards installed and SIM card for dialing): about 7.56 W • 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 12.66 W **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.*

Environmental:

Feature	Specification
Operating Temperature	-40°F to 158°F (-40°C to 70°C).
Storage Temperature	-40°F to 185°F (-40°C to 85°C).
Storage and Operating Humidity	15% to 95% non-condensing.
IP Rating	IP30 (non-waterproof).

Dimensions & Weight:

Feature	Specification
Dimensions	Dashcam: 4.45 in × 2.67 in × 3.47 in (excluding bracket); Deviation: ±0.08 in Package: 6.93 in × 5.91 in × 4.49 in; Deviation: ±0.12 in
Weight	Net weight (device only): 10.4 oz Gross weight (including accessories and package): 26.3 oz Deviation: ±0.35 oz

Note: *The actual dimensions and weight may vary with individual product differences, manufacturing processes, and testing methods.*

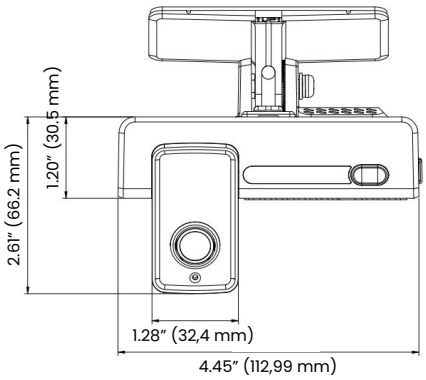
PACKAGING CONTENTS

- **FS-AD-PLUS-2.0-D** ×1
- **Power Supply Box** ×1
- **Standard Power Cable** ×1
- **Allen Key** ×1
- **Mounting Bracket** ×1
- **Bracket Bolt** ×1
- **Removal Tool** ×1
- **Alcohol Cleaning Wipe** ×1

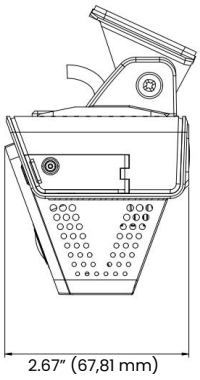
Note: *The configuration may vary by region.*

PRODUCT DIMENSIONS

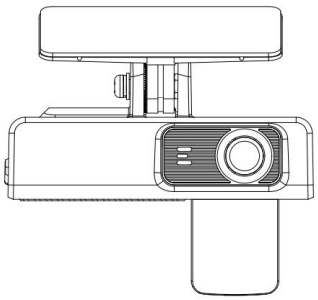
Front view



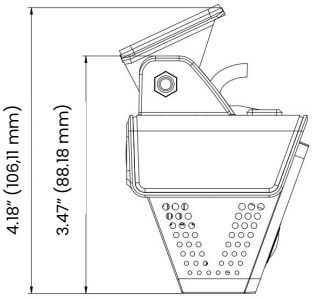
Right view



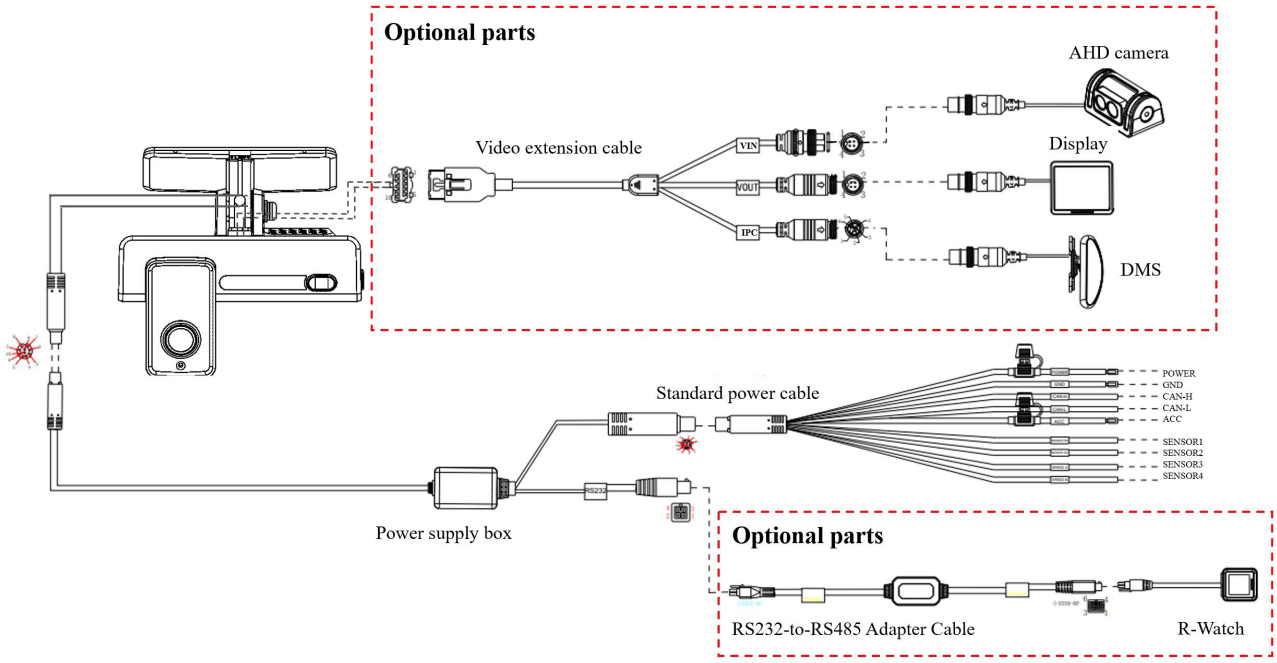
Rear view



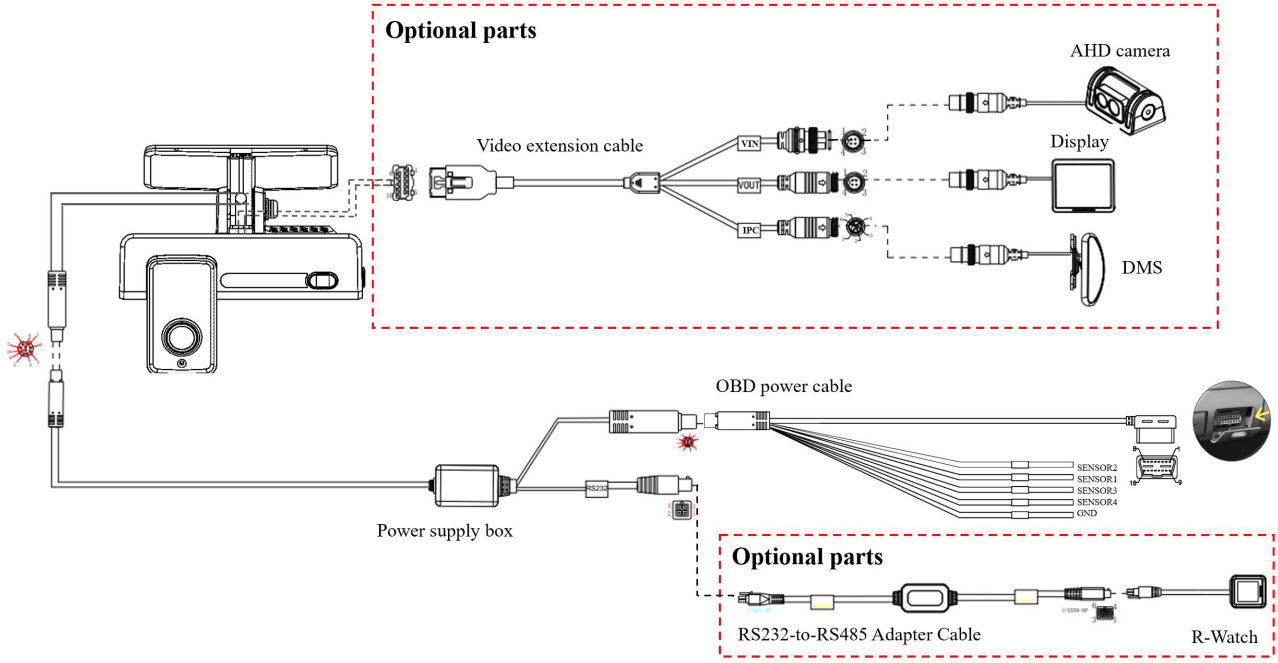
Left view



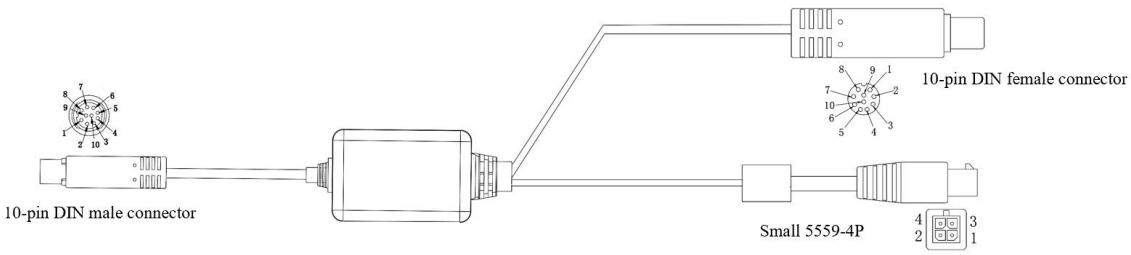
CONNECTION DIAGRAM OF ACC POWER SUPPLY SYSTEM



OPTIONAL OBD POWER SUPPLY SYSTEM CONNECTION DIAGRAM



POWER SUPPLY BOX CONNECTOR PINOUT



Pinout

TJC3-12PIN-P1.25		10-pin DIN male connector	
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

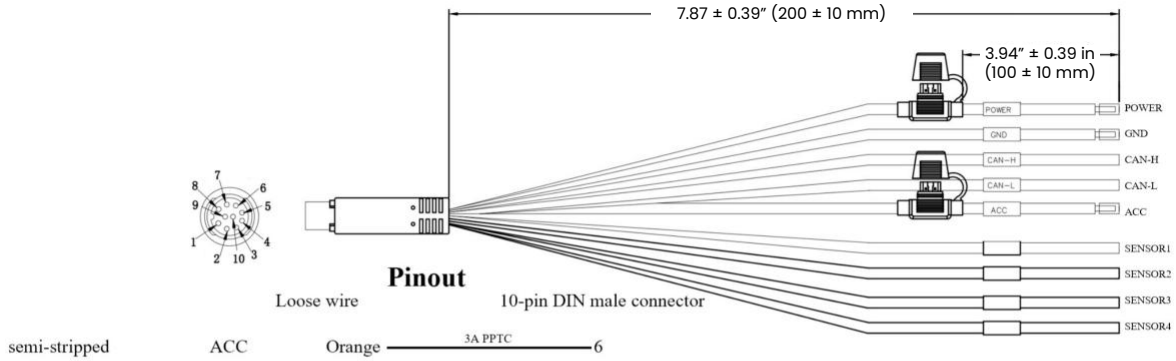
TJC3-12PIN-P1.25		10-pin DIN female connector	
1+2	10	GND	Black+Black-White
3+4	3	24V+	Red+Red-White
7	5	SIN1	Purple
8	7	SIN2	Brown
10	2	CAN-H	Green
11	1	CAN-L	Yellow
12	8	SIN3	Blue
13	9	SIN4	Gray
14	6	ACC	Orange
15	4	OBD-CHK	White

Pinout

TJC3-2PIN-P1.25		Small 5559-4P	
1	1	+12V	Pink
2	3	+5V	Blue-White

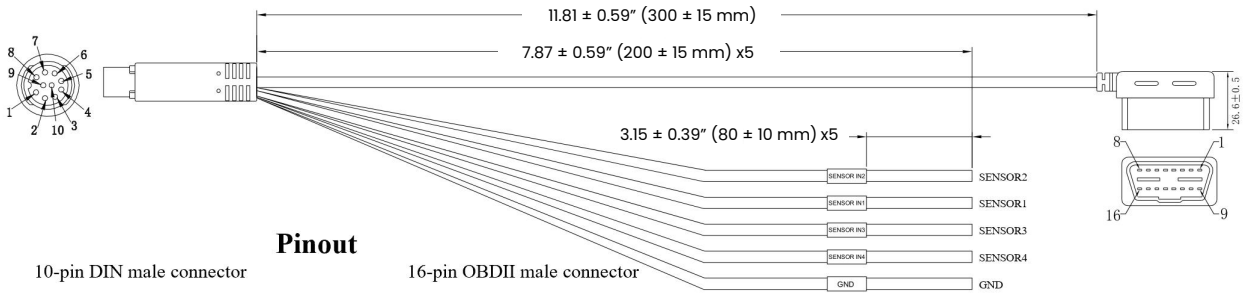
TJC3-15PIN-P1.25		Small 5559-4P	
9	7	GND	Black
6	2	232TX	Green
5	1	232RX	Yellow

STANDARD POWER CABLE CONNECTOR PINOUT



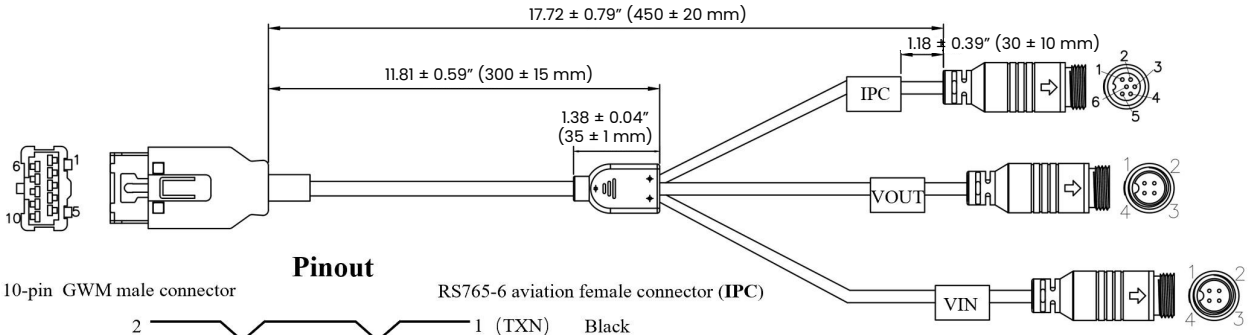
semi-stripped	ACC	Orange	3A PPTC	6
	CAN-L	Green		1
	CAN-H	Yellow		2
	SENSOR IN3	Blue		8
	SENSOR IN2	Green-Yellow		7
	SENSOR IN1	Gray		5
	SENSOR IN4	Green-Black		9
semi-stripped	POWER	Red	3A PPTC	3
semi-stripped	GND	Black		10

OBD POWER CABLE CONNECTOR PINOUT



GND	Black	10+4		4+5
CAN-H	Green	2		6
CAN-L	Yellow	1		14
POWER	Red	3	3A PPTC	16
SENSOR IN3	Green-Yellow	8		
SENSOR IN2	Blue	7		
SENSOR IN1	Gray	5		
SENSOR IN4	Green-Black	9		
GND	Black	10		

VIDEO OUTPUT CABLE CONNECTOR PINOUT



Pinout

10-pin GWM male connector — RS765-6 aviation female connector (**IPC**)

2	1 (TXN)	Black
7	2 (TXP)	White
1	4 (RXN)	Brown
6	5 (RXP)	Orange
10	3 (VCC)	Red
3	6 (GND)	Gray
shell	shell	(Ground)×3

10-pin GWM male connector — RS765-4 aviation male connector (**VOUT**)

4	4 (VOUT)	Yellow
5+9	2 (GND)	Shield

10-pin GWM male connector — RS765-4 aviation male connector (**VIN**)

8	4 (VOUT)	Green
3	2 (GND)	Shield
10	1 (+12V)	Purple

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