GF03 • AI Dashcam

Datasheet

GF03

Connected 3-Channel Dashcam (ADAS + DMS)

Wide-Viewing Angle

3-Channel

Connected

Dual SD Storage

Wake Up on Demand

OBD Plug & Play

CE UK CA PTCRB

Product Summary

As a professional, user-friendly and cost-effective dash camera With built-in AI processor, the GF03 detects risky driving events such as lane departure warning, forward collision warning and headway monitoring warning. In addition, it can remind drivers of unsafe driving behaviours in real time and upload driving events to a monitoring platform that can be reviewed by fleet managers to help fleets guide drivers and reduce traffic risks.

Key Features:

- 5MP resolution with 140° DFOV for ADAS
- Support up to 3-channel video recording, H.264/H.265 video coding
- Dual Micro 256G SD card storage, supporting dual-stream recording
- Built-in Wi-Fi and 4G module
- Support 4-channel input, 1 channel CAN and 1 channel RS232
- Compact Design
- Support OBD powering, easy installation
- Functions of built-in ADAS, supporting AI event detection (LDW, HMW, FCW)

- Support sleep mode, remote wake-up (power consumption less than 0.1W)
- Support echo suppression algorithm to improve the quality of two-way voice intercom
- 6-axis gravity sensor detects intense driving behaviours (Harsh Acceleration, Deceleration, Sharp turn & Accident detection)

Active Safety Features

The GF03 uses machine vision based on video analysis technology to automatically capture road risks and drivers' bad driving behaviours. Any detected event will trigger audible and visual reminders to warn drivers in real time, and the event videos will also be uploaded to the cloud at the same time.

ADAS Features

LDW
(Lane Departure Warning)

HMW
(Headway Monitoring Warning)

FCW
(Forward Collision Warning)

Optional accessories for active safety DMS Features

A-pillar DMS

Driver Notified (R-Watch)

Lens Covered

Fatigue

Phone Call

Smoking

Distraction

No driver detected

Unfastened seat belt

Yawning

Technical Specification

Product Model

Model	FTDC-ADP-3CH
System	Embedded Linux
Language	Support Chinese, English, Spanish, Portuguese, French, Russian, Japanese

Video/Audio

Video/Audio Recording	3-channel video (default: 1-channels; extensible: 2-channel IPC) + 1-channel audio
Total Resources (With 2-channel AI)	5MP @20fps (ADAS)+1080P @20fps (AHD)+1080P @20fps (IPC)
Total Resources (Without AI)	PAL: 1 × 5MP @25fps (AHD) + 1 × 1080P @25fps (AHD) + 1 × 1080P @25fps (IPC) NTSC: 1 × 5M P@30fps (AHD) + 1 × 1080P @30fps (AHD) + 1 × 1080P @30fps (IPC)
Image Setup	Adjustable brightness, Chroma, contrast, color saturation, and sharpness
Video Coding	H.264 /H.265 (default: H.265)
Audio Compression Standard	ADPCM/G.711/G.726 (default: ADPCM)
CBR/VBR	Supported. VBR or CBR (optional), VBR by Default
Audio	Built-in MIC
Loudspeaker	Built-in 3W loudspeaker

ADAS Camera Parameters

Sensor Type	1/2.7" 5-megapixel CMOS sensor
Shutter Speed	1/30s-1/100000s
Lens	2.8mm HFOV: 123° VFOV: 65° DFOV: 140°
Minimum illumination	Color: 0.05Lux/F1.2
Lens Mount	MDVR built-in lens
Wide Dynamic Range (WDR)	Digital WDR
Backlight Compensation	Supported
Signal-to-Noise Ratio (S/N)	≥48dB

LED Indicator Status

Power Status Indicator	Off/Blue
Alarm Indicator	Off/Red
GPS Signal Indicator	Off/Red
Network Status Indicator	Off/Red
Wi-Fi Status Indicator	Off/Red/Green
Recording Status Indicator	Off/Red

Storage

Micro SD card	Support two Micro SD cards, with the maximum capacity of a single card is 256 GB

Sensor

Six-axis Sensor	Supported, Harsh Acceleration, Deceleration, Sharp turn & Accident detection

Engine Data Page

CAN Data Collection	Supported

Port

RS232	1
IO Port	4-channel input
CAN	1
USB	1 × mini-USB port

Network

WIFI	Support 2.4G (IEEE Std.802.11a/IEEE Std.802.11b/ IEEE Std.802.11g/IEEE Std.802.11n)
4G	Supported For North America: EC25AFXGA-128-SGAS LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5 For Europe and Asia: EC25-EC LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM: B3/B8 For Latin America: EC25AUXGA-128-SGNS LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28

	LTE TDD: B40 WCDMA: B1/B2/B5/B8 GSM: B2/B3/B5/B8

Positioning

GPS	Supported GPS L1 1575.42MHz BDS B1 1561.098MH GALILEO E1B/C1 GLONASS L1OF 1602MHz SBAS: WAAS, EGNOS, MSAS, GAGAN

Protocol

Network Protocol	HTTP, TCP, ARP, UDP, FTP, DHCP, DNS, IPV4, NTP

Power Related

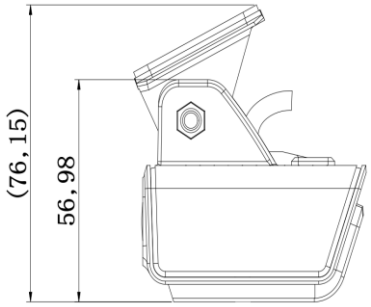
Power Supply	9-36V
Built-in Battery	Not supported
Power Consumption	Typical power consumption <8 W, maximum power consumption <12 W

General Specifications

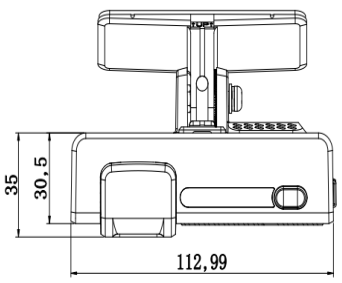
Dimensions	113.0 mm (length) × 67.2 mm (width) × 57.0 mm (Height, without bracket)
Weight	720g
Operating Temperature	-40°C - +70°C (-40°F - +158°F)
Storage Temperature	-40°C - +85°C (-40°F - +185°F)
Humidity	15% - 90%

Dimensions

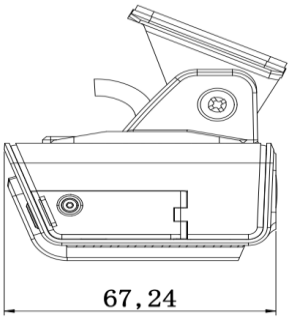
Unit (mm)



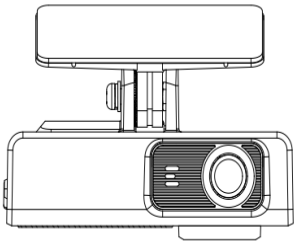
Left view



Front view

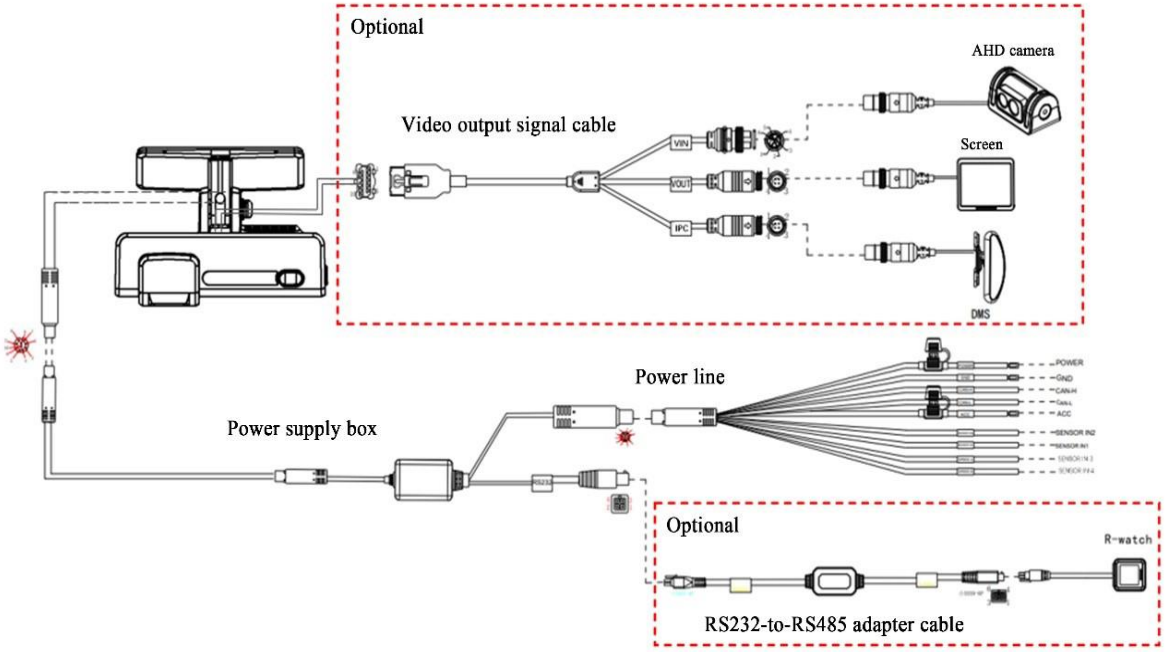


Right view

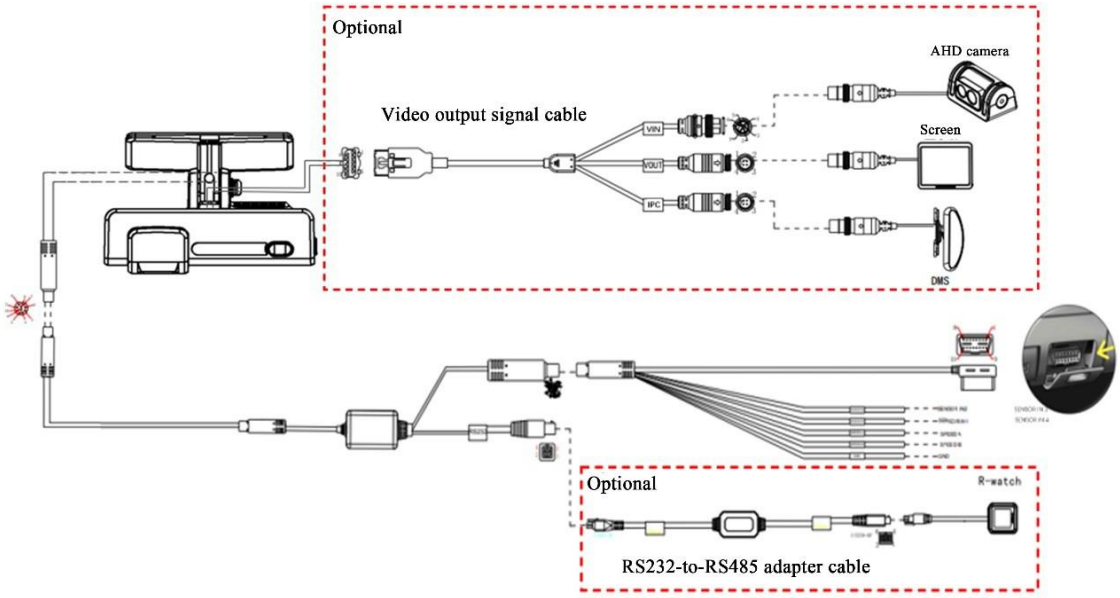


Rear view

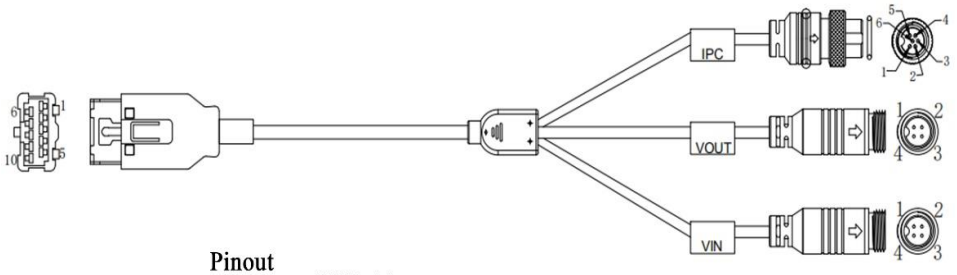
System connection diagram for power supply through loose wire



OBD wiring diagram



Video output cable connector pinouts



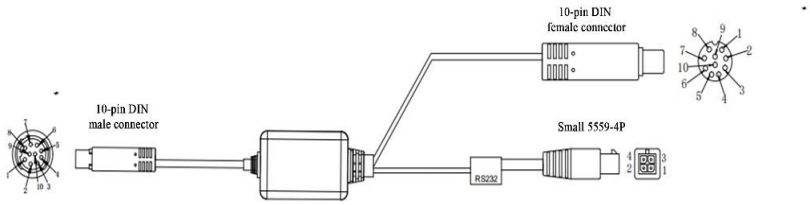
Pinout

10-pin GWM male connector		RS765-6 aviation female connector	
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		RS7654 aviation male connector VIN	
8		4 (VOUT)	Green
3		2 (GND)	Shield
10		1 (+12V)	Purple

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	CANH	Green
11		2	CANL	Yellow
12		1	ACC	Orange

Pinout

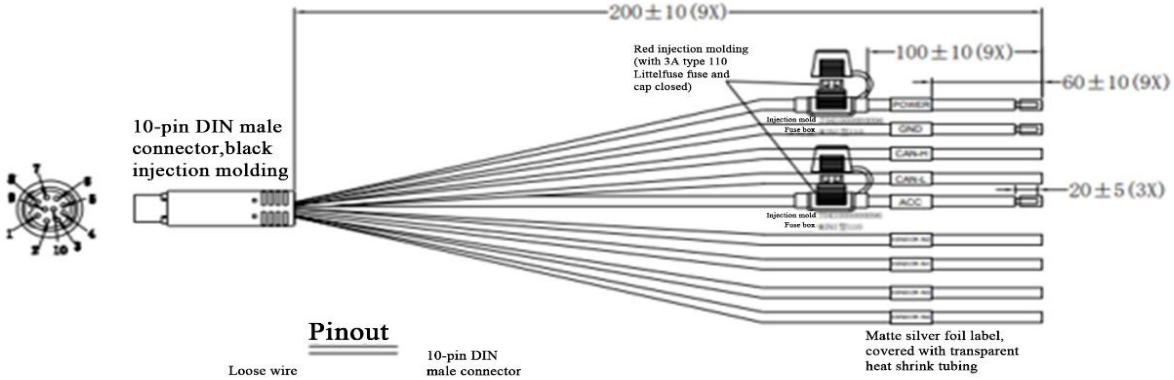
TJC3-12PIN-P1.25		10-pin DIN female connector		
1+2		10	GND	Black + Black/White
3+4		3	24V+	Red + Red/White
7		5	SIN1	Purple
8		7	SIN2	Brown
10		2	CANH	Green
11		1	CANL	Yellow
12		8	SPEED A	Blue
13		9	SPEED B	Gray
14		6	ACC	Orange
15		4	OBD-CHK	White

Pinout

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

TJC3-15PIN-P1.25		Small 5559-4P		
9		4	GND	Black
6		3	232TX	Green
5		2	232RX	Yellow

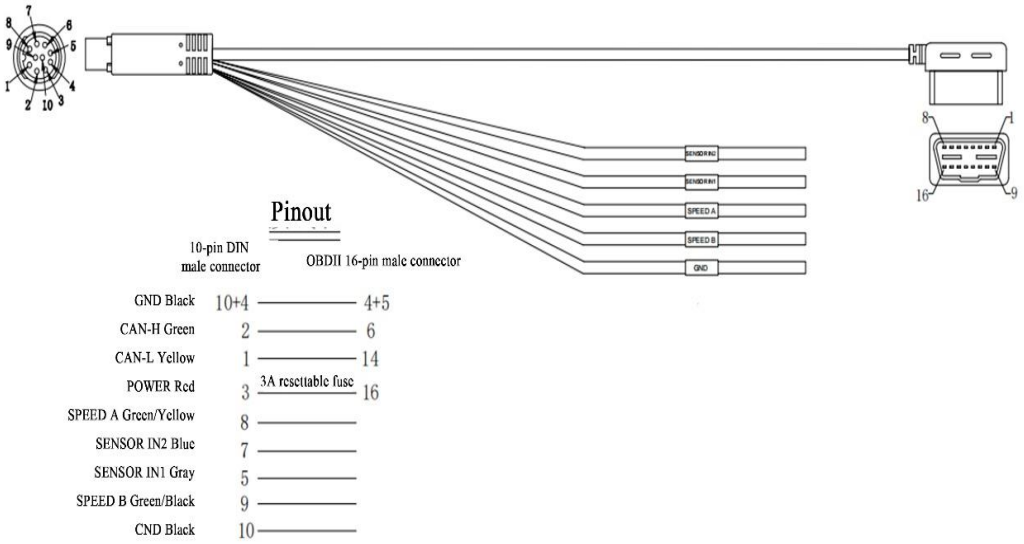
Power output cable connector pinout



Pinout

Loose wire			10-pin DIN male connector
Semi-stripped	ACC	Orange	6
	CAN-L	Yellow	1
	CAN-H	Green	2
	SENSOR IN3	Blue	8
	SENSOR IN2	Green/Yellow	7
	SENSOR IN1	Gray	5
	SENSOR IN4	Green/Black	9
Semi-stripped	POWER	Red	3
Semi-stripped	GND	Black	10

3A fuse boxtt

3A fuse boxtt

OBD cable connector pinout