FTDC-ADP-3CH

Connected 3-Channel Dashcam (ADAS + DMS)

Wide-Viewing Angle   **3-Channel**   **Connected** (4G)

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, Fleetly FTDC-ADP-3CH 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

Fleetly FTDC-ADP-3CH 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

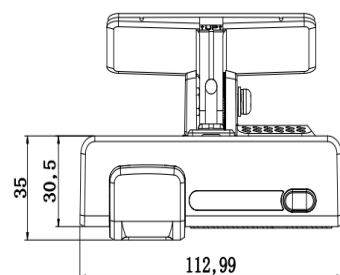|	
Power Supply	9-36V
Built-in Battery	Not supported
Power Consumption	Typical power consumption <8 W, maximum power consumption <12 W

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
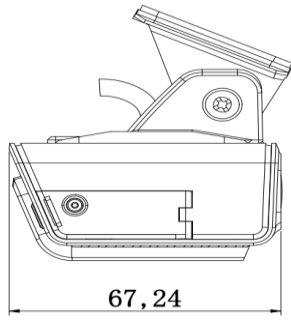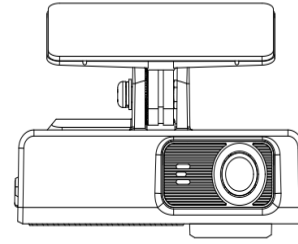
Unit (mm)
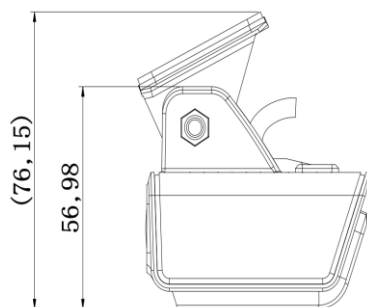
Left view

Front view

Right view

Rear view

67,24

System connection diagram for power supply through loose wire

Optional

AHD camera

Video output signal cable

VIN

VOUT

IPC

Screen

DMS

Power line

POWER
GND
CAN-H
Can-L
ACC
SENSOR IN2
SENSOR IN1
SENSOR IN 3
SENSOR IN 4

Power supply box

Optional

R-watch

RS232-to-RS485 adapter cable

OBD wiring diagram

Optional

AHD camera

Video output signal cable

VIN

VOUT

IPC

Screen

DMS

SENSOR IN2
SENSOR IN 4

Optional

R-watch

RS232-to-RS485 adapter cable
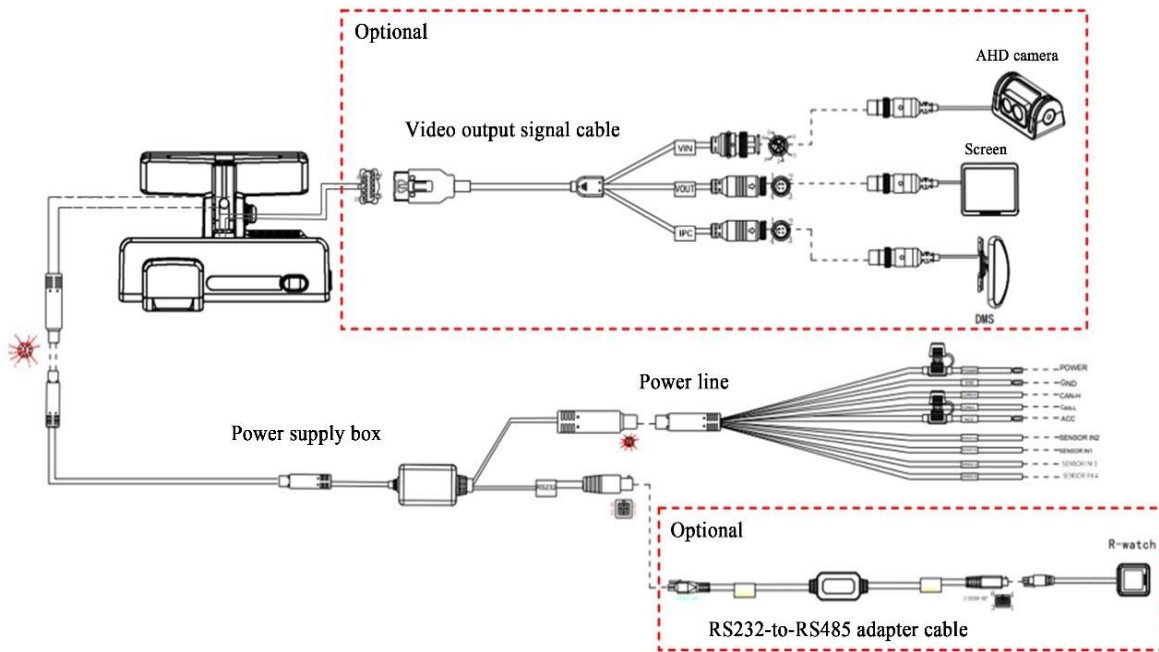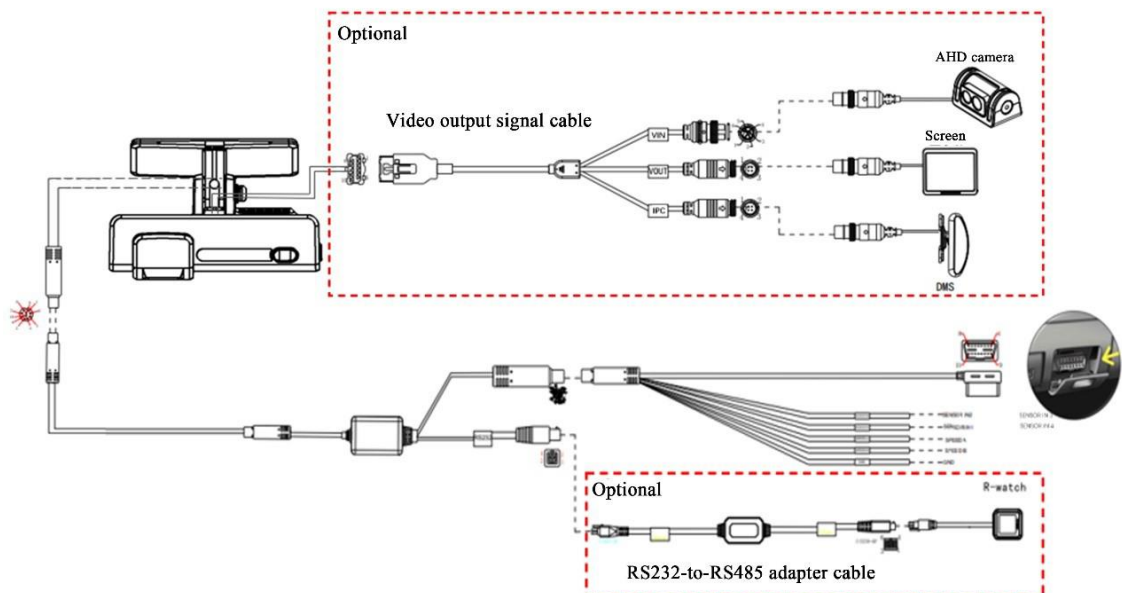
Video output cable connector pinouts

IPC

VOUT

VIN
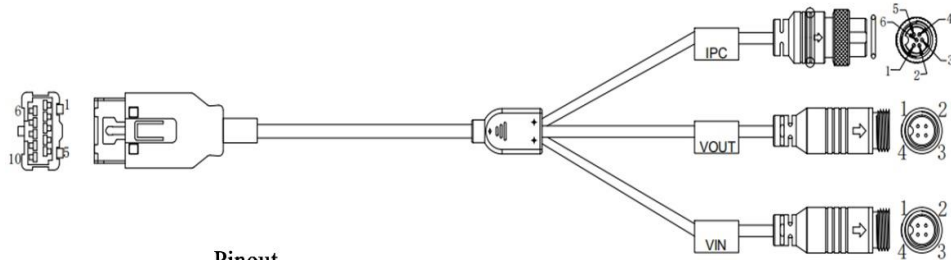
Pinout

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

10-pin DIN female connector

10-pin DIN male connector

Small 5559-4P

RS232
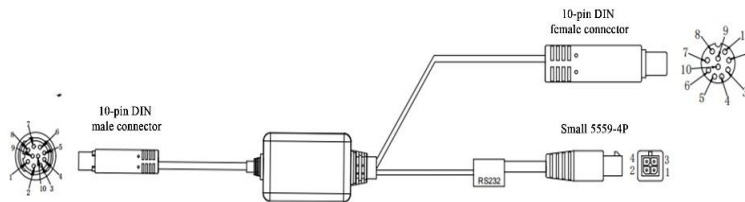
Pinout

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	OHD·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

200±10 (9X)

Red injection molding (with 3A type 110 Littelfuse fuse and cap closed)

10-pin DIN male connector, black injection molding

Injection mold Fuse box

POWER
GND
CAN-H
CAN-L
ACC

100±10 (9X)

60±10 (9X)

20±5 (3X)

Matte silver foil label, covered with transparent heat shrink tubing
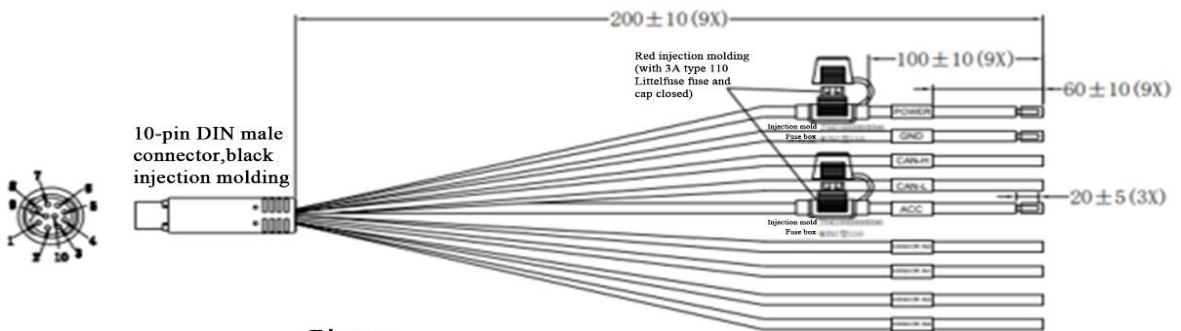
Pinout

Loose wire			10-pin DIN male connector
Semi-stripped	ACC	Orange 3A fuse boxtt	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 3A fuse boxtt	3
Semi-stripped	GND	Black	10

OBD cable connector pinout
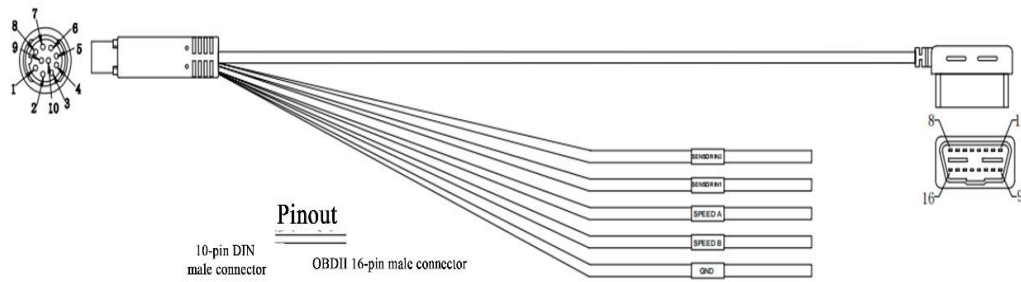
Pinout

10-pin DIN male connector   OBDII 16-pin male connector

GND Black	10+4	————	4+5
CAN-H Green	2	————	6
CAN-L Yellow	1	————	14
POWER Red	3	3A resettable fuse	16
SPEED A Green/Yellow	8	————	
SENSOR IN2 Blue	7	————	
SENSOR IN1 Gray	5	————	
SPEED B Green/Black	9	————	
CND Black	10	————	