JC400 Series

EdgeCam 2

User Manual

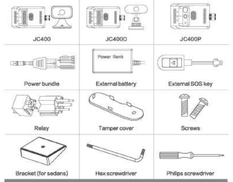
Version: V3.0

Please read this manual carefully prior to use.
The content of this manual may change due to improvement in performance without prior notice.

1. Introduction

1.1 Packing List

Standard



Optional

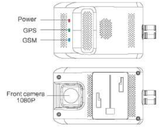
Please check the product model you purchased carefully as the packing list varies with the model.

1.2 Overview

JC400 series uses 4G network for communication. For these dual-channel digital video recorders (DVRs), except to be able to record simultaneously, the two cameras can also record locally and live stream remotely at the same time. The front-facing HD camera is used for real-time recording; while the cabin-view camera with IR LED for monitoring at night time. Combined with DMS, driving behavior analysis, multiple alert options, and much more, they can assist the management in monitoring the vehicle condition and the driver's behavior at any time. This is very useful to coach driver's behavior, improve management efficiency, and lower operation cost, making JC400 series an ideal option for remotely managing ridesharing, rental, public, government, and enterprise fleets.

1.3 Appearance and LEDs

1.3.1 Main Unit



Product Model	JC400/JC400D main unit
Camera	1920x1080/25FPS/F 2.0/Full color

1.3.2 Subcamera Options

Product Model	JC400P	Integrated Version
Build-in Camera	1280x720/15FPS/F2.0/ Full color in daytime and monochrome in dim light/No remote camera	 Inward camera
Usage	Monitor the cabin	

Product Model	JC400	Remote Cabin-view Version
Remote AHD Camera	1280x720/15FPS/F2.0/Full color in daytime and monochrome in dim light	
Usage	Monitor the cabin	

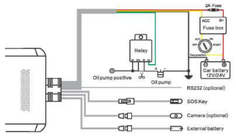
Product Model	JC400D	DMS Version
DMS Camera	1280x720/15FPS/F2.0/ Monochrome all day	
Usage	Monitor the driver's head	

Refer to the specifications and features of the product model you purchased. If you have any questions, please contact your supplier.

1.3.3 LEDs

LED	Color	Connotation	Status
Power LED	Red	Solid on	Device powered on (ACC ON)
		Blink every 10s	Device in sleep (ACC OFF)
		Off	No power connected
GPS LED	Green	Solid on	GPS signal normal
		Blink every 1s	Searching for GPS satellites
		Off	Device in sleep (ACC OFF)
GPRS LED	Blue	Solid on	Network healthy
		Blink every 1s	Network error
		Off	No SIM
			Device in sleep (ACC OFF)
Defense LED	Blue	Fast blink for 30s	Vibrating alert triggered
		Blink every 10s	Defense on
		Off	Defense off

1.4 Wirings



Cable	Definition	Color	Usage
Power	B+	Red	To battery positive (9~30V), power input
	GND	Black	To battery negative, power input
	ACC	Yellow	To ACC ON/Positive (9~30V), power input
	Relay	Green	To relay for remote power and fuel cutoff
RS232 (optional)	I/O	/	To peripherals, such as oil sensor, card reader, etc.
SOS	SOS	/	To the external SOS key
Camera (optional)	Remote camera	/	Monitor the cabin
Battery	External battery	/	To provide 450mAh backup battery for the device to protect it against power outage resulted from sudden power disconnection.

2. Specifications and Features

2.1 Specifications

Category	Item	Parameter	Remarks
Hardware	Memory	1GB+16GB	/
	American version	4G	FDD：B2/B4/B5/B7/B12/B17 TDD：B38/B41 (100M)
		3G	WCDMA：B2/B4/B5
		2G	GSM：850/1800/1900
	WiFi	2.4GHz	802.11b/g/n
	GNSS	Support	GPS/B/DS
	Microphone	Support	For remote voice communication
	Speaker	Support	To notify drivers of status or events
Interface/ Key	Reset key	Support	On the main unit
	Interface	Micro USB	For commissioning and upgrade
Others	Power supply	Fuse box	B+/ACC/GND
	Supply voltage	DC 9~30V	/
	Battery	External	450mAh
	Operating temperature	-20℃~+70℃	/

2.2 Features

No.	Feature	Description
1	Video recording	This enables the device to record in loop when the vehicle is moving.
2	Live video	This enables the device to live stream images captured by cameras via the LTE network to the platform (web or app).
3	Tracking	This enables the device to upload location data and motion information via the mobile network to the platform for analysis.
4	Event alert	This enables the device to upload alert messages and video files to the platform when an event is triggered by collision, vibration, dangerous driving behavior, emergency, DMS reminder, speeding, etc.
5	SOS call	This enables the driver to notify the platform at the earliest time possible, make a call, and activate video recording when an emergency occurs.
6	Remote control	This enables the user to deliver a lock command to the device via the platform (web or app) to remotely cut off the fuel and power to the vehicle when an exception occurs.

Note: For details about features, refer to the operation guide.

3. Installation

Precautions:

1.This device is not suitable for battery electric vehicles (BEVs) and hybrid electric vehicles (HEVs).
2.Use accessories specified by the manufacturer only.
3.The standard supply for the device is DC9~30V, please use the original power cable and ensure that the positive and negative ends are correctly wired.
4.Remove the protective film on the remote camera prior to installation.
5.It is recommended to ask a distributor, a designated business, or an expert to do the installation and commissioning.

3.1 Preparation

Device check

Check visually whether the device is in good condition and whether the relevant accessories are complete.

3.2 SIM Card Attachment

Ensure that the device is ACC OFF before attaching a proper SIM card.

To attach and detach the SIM may damage the contacts, **please use the completed Micro SIM card instead.** In addition, the SIM should have data service activated and not in arrears.

⚠ **Note:**
Refer to 3.2 for the SIM size

Fit the SIM in the correct slot.

3.3 TF Card Attachment

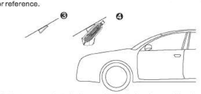
Ensure that the device is ACC OFF before attaching a proper TF card.

⚠ **Note:**
1.Use a TF card in speed class 10 or higher and with a capacity of 16GB or above.
2 The TF card is recommended to change every half a year to ensure the recording performance of the device.
3.Mount the tamper cover after the attachment.

Fit the TF card in the correct slot.

3.4 Main Unit Installation

1.Connect the power cable of the device to B+, ACC, and GND of the fuse box on the vehicle. ❶ is a reference position.
2.Route the power cable along the A pillar of the vehicle to the upper center of the front windshield. The red dashed line (❷) in the figure is for reference.

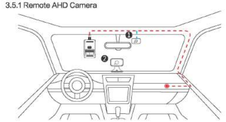


3.Select a proper installation position and wipe the position clean. Remove the protective film from the 3M tape of the mounting base and attach it to the position. Wait for 2 hours before proceeding to the next step. See ❸ for reference.
4.Mount the device to the base and connect its power cable correctly (see ❹ for reference). Then fasten the cable securely.

3.5 Installation of Accessories

You can select a proper position to install the remote camera according to actual conditions.

3.5.1 Remote AHD Camera



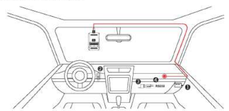
1.Face the camera inward and install it to the windshield behind the rear-view mirror (as shown in ❶) or to the middle of the dashboard (as shown in ❷). Wipe a selected position clean, remove the protective film from the 3M tape, and attach the device.
2.Use the supplied screwdriver to tighten the screw of the camera, so it keeps at the best angle. Connect the cables correctly and fasten them securely.

3.5.2 DMS Camera

This section is dedicated to JC400D.

The DMS camera is mainly used for monitoring the driver. Fixate the camera at an angle about 30° to the steering wheel directly facing the driver's head, as the following figure shows.

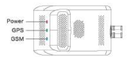
3.5.3 Other Accessories



1.External battery
It is used to power the device for a while after its main supply is cut off. Connect the external battery to the corresponding interface on the device and place it in a proper position (such as ❶ in the above figure).
2.SOS key
It is used to seek help in emergencies. Connect the SOS key to the corresponding interface on the device, remove the protective film from the 3M tape, and then attach it to a proper position (such as ❷ in the above figure).
3.Relay
It is used to cut off the power and fuel of the vehicle remotely to force it to stop. Connect it to the corresponding interface on the device and place it in a proper position, such as ❸ in the above figure. For wiring details, see 1.4.
4.RS232 (optional)
It is used to connect to an external device for function expansion when a scenario requires a feature that cannot be offered by the device. ❹ is a reference installation position.

⚠ **Note:**
1.Choose proper accessories based on your actual needs.
2.Select a relay that goes perfectly with the battery of your vehicle.
3.It is recommended to ask a distributor, a designated business, or an expert to do the installation and commissioning.

3.6 Commissioning



1.Check the LED:See 1.3.3 for reference.

2.Check the camera: The camera works correctly if you can view the live video of the camera and switch between the two cameras after logging in to the platform. You can also manually adjust the camera according to your needs.

4. Platform Operations

4.1 Installation

4.1.1 Platform

Scan the QR code on the right with the browser of your mobile phone to download and install the app.

4.1.2 Calibration Tool for JC400D

Scan the QR code on the left with the browser of your mobile phone to download and install the calibration tool.

⚠ **Note:**
This app is used for feature calibration of JC400D.
This calibration tool is only compatible with mobiles with Android OS.

4.2 Operation Guide

Scan the QR code on the right with the browser of your mobile phone to view relevant operations.

5. Others

5.1 Battery Safety

1.Use the original battery supplied by the manufacturer only. The use of any non-original accessories may damage the device, in which case the manufacturer will assume no repair liabilities for such damages.
2.Avoid metal objects as they may cause short circuits on battery contacts.
3.Do not remove the cover of the battery.
4.Do not soak the battery in water or expose it to fire.
5.It is forbidden to use batteries that are deformed, discolored, spilled, or package-damaged. If such an exception, such as over-temperature, deformation, discoloration, spillage, etc., occurs during use, charging, or storage of the battery, please stop using the device immediately and contact the aftersales center for a replacement.
6.It is forbidden to dismantle, or modify, or charge (in any other method other than stated) the battery.