



# JC450 Series

## Multi-Channel AI DashCam

The JC450 Series is an LTE dashcam system designed specifically for use in commercial vehicles. This feature-rich camera system is capable of recording 4/5 separate channels simultaneously, and provides valuable ADAS and DMS algorithms that actively assist drivers increase awareness and safety on the road by providing real-time, actionable alerts. Video clips triggered by key events or the in-cab SOS button are saved to the cloud for later review or evidentiary support. Other features of this system, including support for peripheral sensors, the ability to connect via WiFi, and expanded on-device storage make the JC450 Series a perfect solution for a variety of applications across multiple industries.



Logistics Service



Hazmat Trucking



School Bus Service



Public Transport

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### Video Surveillance

Powerful LTE connectivity enables the live monitoring of the vehicle's interior and exterior via an online platform; while the critical video clips in the device allows for on-demand playback after the fact from anywhere, at any time.



### Multi-Channel Recording

Multiple cameras can be configured to monitor various angles providing a fuller view of the vehicle and its surroundings.



### Visual AI Algorithms

The device uses a variety of AI algorithms, such as ADAS and DMS, to provide tools that help improve road safety and driver safety and compliance.



### Intelligent Positioning

Locate vehicles using GPS signals and collect location data, vehicle speed and other data for analysis.



### Multiple Alerts

Record and upload video clips or still images of customizable events such as speeding and SOS button activation.



### Vehicle Immobilization

Enable you to cut off the fuel/power to the vehicle moving under 20km/h using Tracksolid Pro, which is useful if your fleet vehicle has been stolen.



### Extension Interface

Various ports such as RS232 and TTL provide support for optional accessories such as fuel and temperature sensors.



### Expanded Storage

Dual microSD card slots provide a maximum of 512GB on-device storage, allowing for up-to-7-day 5 cameras recording simultaneously.

## Specifications

### Cellular

<b>Technology</b>	4G LTE Cat 4, 3G (WCDMA), 2G (GSM) JC450-EUX FDD-LTE: B1/B3/B7/B8/B20/B28A TDD-LTE: B38/B40/B41 WCDMA: B1/B8 GSM: B3/B8 JC450-AFX
<b>Frequency</b>	FDD-LTE: B2/B4/B5/B12/B13/B14/B66 WCDMA: B2/B4/B5 JC450-AUX FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B28 TDD-LTE: B40 WCDMA: B1/B2/B4/B5/B8 GSM: B2/B3/B5/B8

### GNSS

<b>Positioning system</b>	GPS, AGPS
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### Camera

<b>Front camera (main)</b>	1920x1080/25FPS/F2.0/Full color/80° (HfOV)
<b>Video format</b>	.ts/.mp4

### Power

<b>Input voltage</b>	DC 9~30V
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### Operating environment

<b>Operating temperature</b>	-20°C to +70°C
<b>Storage temperature</b>	-30°C to +85°C

### Interface

<b>LED indication</b>	Red (Power), Blue (Cellular), Green (GNSS)
<b>SIM</b>	Nano-SIM
<b>External memory</b>	TF card (up to 256GB*2)
<b>USB</b>	Type-C
<b>WiFi</b>	2.4GHz, Support AP Mode/STD Mode/WiFi Direct
<b>Bluetooth</b>	BLE 4.0
<b>Microphone</b>	Support
<b>Speaker</b>	Support
<b>Digital I/Os</b>	2*SOS; 1*Relay; 2*Reserved inputs
<b>Analog I/Os</b>	1*CVBS-OUT
<b>Serial ports</b>	1*RS232, 1*TTL
<b>Sensor</b>	3-Axis accelerometer

### Feature

<b>ADAS</b>	FCW, HMW, LDW
<b>DMS (Optional)</b>	Phone use, Smoking, Distraction, Yawning, Eyes closed, No face detected
<b>Configuration support</b>	GPRS, SMS, Memory card, APP
<b>Firmware update</b>	USB cable, Memory card, OTA
<b>Certification</b>	CE, FCC, PTCRB, RoHS, AT&T

### Physical specification

<b>Dimensions</b>	114.0 x 113.0 x 33.0mm
<b>Weight</b>	374g

## Standard Packing

JC450 unit	1	Double-sided adhesive	1
Power cable	1	Screws	2
SOS button	1	Screwdriver	1
Mount base	1		

## Optional Configuration\*

<b>Peripheral camera</b>	CI02: 1280x720/15FPS/F2.5/Color in daytime & mono in dim light/135° (HfOV) CI01: 1280x720/15FPS/F2.0/Color in daytime & mono in dim light/100° (HfOV) CI03: 1280x720/15FPS/F2.4/Color in daytime & mono in dim light/119° (HfOV) CI04: 1280x720/15FPS/F2.4/Color in daytime & mono in dim light/119° (HfOV) CD02: 1280x720/15FPS/F2.0/Monochrome/56° (HfOV) CE01: 1280x720/15FPS/F2.0/Full color/IP67/125° (HfOV) CE02: 1280x720/15FPS/F2.0/Full color/IP67/111° (HfOV)
<b>Relay</b>	12V or 24V

\*Optional Configuration required to be customized or purchased separately.