jimiiot

# JC171
## AI Camera

The JC171 AI camera is a compact device designed to enhance driver safety. Using advanced algorithms, it detects fatigue (including yawning and closed eyes) and distraction (including phone use, looking away, smoking, and lowered head) and then issues audible alerts to remind and encourage safer driving, thus helping prevent accidents caused by human error. Additionally, the JC171 offers seat belt monitoring and facial recognition for better fleet management. Its built-in infrared fill lights enable it to capture clear images even at night and the dedicated video output allows easy export of footage. Suitable for industries requiring long driving hours, the JC171 can function independently or integrate with video telematics devices or tracking terminals, adapting to various customer needs.

Logistics Service

Hazmat Trucking

Passenger Transport Service

School Bus Service

### Driver Monitoring (DMS)
The DMS camera is able to detect fatigue and distracted driving, such as texting while driving, yawning, smoking, or fiddling with the stereo, as well as the exception of the driver not in their seat.

### Infrared Night Vision
A pair of IR-940 LEDs ensures that the device can take clear images even at night without dazzling the driver.

### Verified Compatibility
In addition to working seamlessly with Jimi IoT's dashcams and trackers to suit various application scenarios, the serial ports enable it to be used together with dashcams and trackers of other brands as well.

### Contactless Driver Identification
The camera captures a facial image and verifies the driver's identity by comparing it to a pre-loaded face library, eliminating the need for expensive and cumbersome contact-based identification systems, thus improving the driver experience.

### Seat Belt Monitoring and Reminder
The unit leverages visual AI algorithms to analyze camera footage to determine seatbelt usage and remind drivers to fasten their belts, maximizing safety and increasing the chance of survival in the event of an accident.

### Compact Size
The small form factor makes the camera easy to be installed in most desired positions.

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## Specifications

### Camera

| | |
|---|---|
| **Front camera (main)** | 1920x1080/25FPS/F2.4/Monochrome/110° (HFoV) |
| **Video format** | .ts |

### Power

| | |
|---|---|
| **Input voltage** | DC 9–30V |

### Operating environment

| | |
|---|---|
| **Operating temperature** | –20°C to +70°C |
| **Storage temperature** | –30°C to +85°C |

### Physical specification

| | |
|---|---|
| **Dimensions** | 68.0 x 55.0 x 33.0mm |
| **Weight** | 216g |

### Interface

| | |
|---|---|
| **LED indication** | Red (Power), Green (Monitoring), Blue (Align) |
| **External memory** | TF card (up to 128GB) |
| **USB** | Type-C |
| **Microphone** | Support |
| **Speaker** | Support |
| **Serial ports** | 1*TTL |

### Feature

| | |
|---|---|
| **AI** | Facial recognition, Driver change notification, Seatbelt use detection, Phone use, Smoking, Distraction, Yawning, Eyes closed, No face detected |
| **Configuration support** | Memory card, USB cable |
| **Firmware update** | USB cable |
| **Certification** | CE, FCC |

## Standard Packing

| | |
|---|---|
| **JC171 unit** | 1 |
| **Screws** | 2 |
| **Hex screwdriver** | 1 |

## Optional Configuration*

| | |
|---|---|
| **Power cable** | The JC171 requires a power cable when used independently. |
| **Compatibility** | JC261 Dual-channel AI dashCam |
| **GPS antenna** | Required when GNSS function is a must, and the unit is used on its own |

*Optional Configuration required to be customized or purchased separately.