

# **Fatigue Driving Warning Device**

**Model: F16**

## **User Manual**

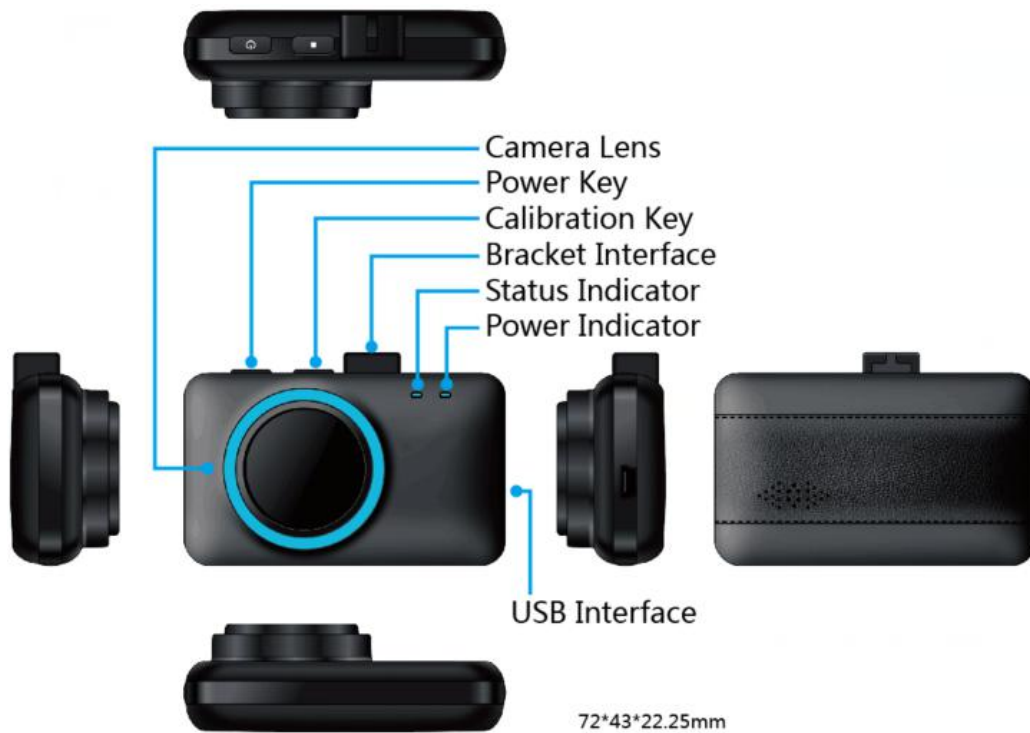
### **One: Product Description**

Fatigue driving warning device is with a unique designed product with pupil identification and detection technology to determine whether the driver is tired or inattentive state by analyzing the changing of characteristics of the pupil. Once the driver is detected fatigue or distracted driving, F16 will immediately send an alarm signal to remind the driver.

F16 uses an image sensor to capture infrared images of a human face, analyzes and verifies whether a driver is tired or unmotivated by a high-speed digital signal processor. With the advance of non-contact mode and cutting-edge algorithm, F16 can accurately detect the driver's fatigue state, no matter under what circumstances (day, night, wearing glasses, recommended not to wear sunglasses), and issued a reminder and alarm to driver in real-time to ensure the life and property safety of the driver.

### **Two: Product Structure Diagram**

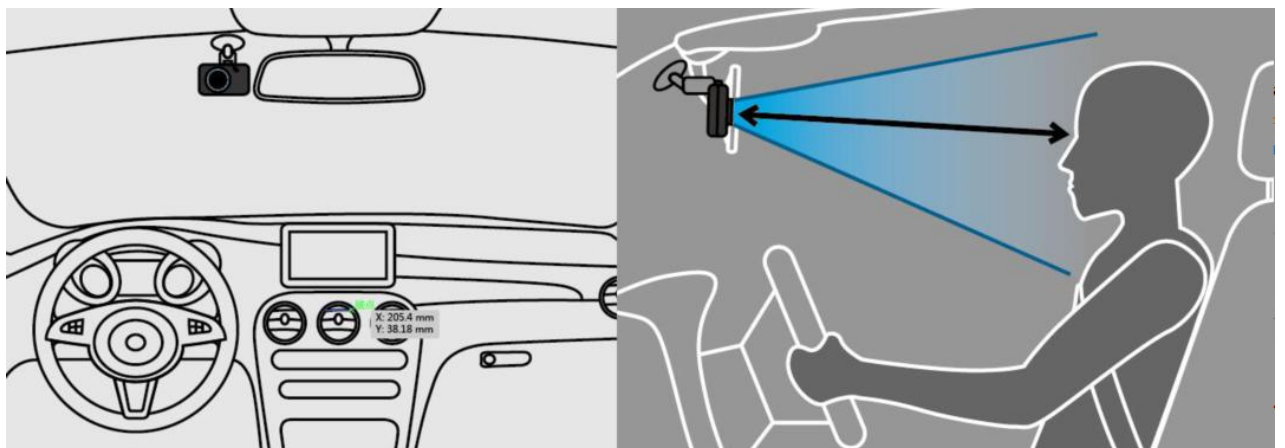
①Status Indicator ②Power Indicator ③Bracket Interface ④Camera Lens  
⑤Calibration Key ⑥Power Key ⑦USB Interface



### Three: Product Usage

#### 1. Product installation

1.1 Tear the film from the bracket base and attach the bracket base to the corresponding position on the windshield (as shown in the following figure). Then press the piston of suction mount until it is fastened.



1.2 The distance between the lens and the driver's eyes should be 45 to 65 cm.

1.3 Turn the bracket and adjust the F16 lens' angle, make sure that the camera lens is at the same level as the driver's eye.

1.4 Start the car. Connect the car charger to the F16 Mini USB port.

## **2. Production Usage Instruction**

2.1 After connected F16 to the car charger, F16 will automatically start up following with welcome words. (After starting, the device will automatically start to work. It is recommended to do facial reading for initial using.)

2.2 Keep the driving posture, face the front and watch the road ahead (keep the lens and eyes in the same height), press the calibration key to read the face. Follow the voice instruction to finish facial reading. If facial reading is unsuccessful, please wait for the voice reminding and wait for facial reading again. (Note: If the facial reading is not successful many times, pls. pull out the car charger, then try again after the device is powered up 7 seconds)

2.3 When facial reading is successful, the status indicator is green. F16 begins to work.

2.4 In the driving process, F16 will calculate, judge and determine whether the driver is in fatigue status through facial recognition, eye blinking and blink frequency and give real-time detection, voice warning and alarming to the driver for safety driving.

2.5 In the driving process, if the driver is distracted or with dangerous behavior (for example looking around, watching the mobile phone), F16 will give real-time detection, voice warning and alarming.

2.6 Sleep mode and wake up. When the driver is awake or in city road with driving speed less than 20Km per hour, if the user think that the device is too frequent and noisy, short press the power key once, the device will go into sleep mode (the left indicator turns from green to off), short press again to wake up (the left indicator turns to green, and accompanied with welcome words).

## **Four: Specification Parameter**

|                                         |                                                                |
|-----------------------------------------|----------------------------------------------------------------|
| <b>Car Charger Input</b>                | DC 12V/24V                                                     |
| <b>Car Charger Output</b>               | 5V, 1.5A                                                       |
| <b>Minimum Working Voltage, Current</b> | 4.75V, 240mA                                                   |
| <b>Maximum Working Voltage, Current</b> | 5.25V, 500mA                                                   |
| <b>Product Working Voltage, Current</b> | 5V, 320mA                                                      |
| <b>Function</b>                         | Real time fatigue driving warning and alarming                 |
|                                         | Distraction warning and alarming                               |
| <b>Warning time</b>                     | 1~2 seconds after closing eyes                                 |
| <b>Viewing angel</b>                    | 60 degree                                                      |
| <b>Interface</b>                        | USB                                                            |
| <b>Working Temperature</b>              | -20℃~60℃                                                       |
| <b>Storage Temperature</b>              | -20℃~80℃                                                       |
| <b>Detection Distance</b>               | 45-65 cm (±5cm)                                                |
| <b>Language</b>                         | One Language for one country (Multi languages can be selected) |

Standard accessories: user manual, car charger, suction cup bracket

#### **Cautions:**

- 1, This product is currently only suit for private cars, not for trucks and big cars.  
Can be used some times but not recommended.
- 2, When wearing glasses, the driver can also use F16. It is recommended not to wear sunglasses when using F16.
- 3, The product is only for safe driving assistance usage. It may has false warning or missed warning. Please do not entirely rely on it or carry out the limit test. It is free from the responsibility if the product is used under such circumstance. And the manufacturer is not responsible for any problem and loss thus incurred.
- 4, Children and ages under 18 years old, or the people who are not with driving licenses are forbidden to use this product.