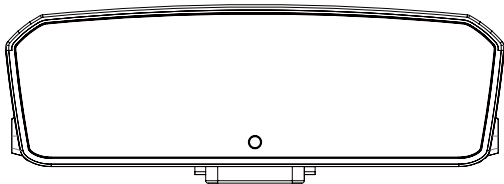




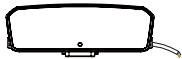
Driver Fatigue Monitor

(Driveraid)



User Manual

Accessories



Main body



Stand



User manual



Bracket (option)

Main body introduction



- 1 Camera
- 2 IR illuminator

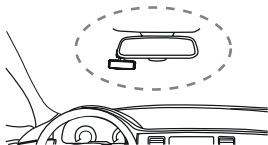


- 3 Led indicator light
- 4 Data and power cable

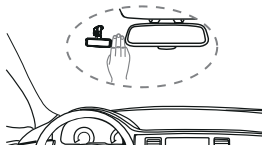


- 5 Button

Install position-windshield/central rearview mirror (left&right hands suitable)



or



install the device to the position (see above picture)



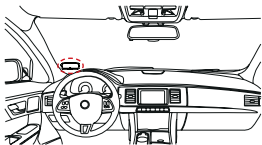
remark: green light at top (the device is upside installed)

Install Instruction

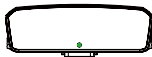
Sit down with normal driving p, adjust the orientation and posture of Driveraid, make the acrylic side of DriverAid toward the driver's face, Then plug in power, waiting the DriverAid to green indicator light on, then the device is in working state.

Notice: In normal use, the driver must keep the eye from the device between 50 to 100 cm.

Install position-windshield next to A pillar (option)



install the device to the position (see above picture)



green light at bottom

LED Lights Indicator

Indicator lights	meaning	Indicator lights	meaning
 orange	standby	 green	working condition
 green flashing	abnormal install position	 red	alarm

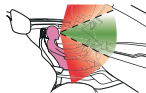
Device functions

1. Fatigue detection: The alarm will be made once there is overtime eyelid closure and nap, though the driver gaze at safe zone
2. Distraction detection: The alarm will be made once gaze beyond safe zone overtime.
3. Calling detection: the alarm will be made once there is common calling poses and behaviors.
4. Smoking detection: the alarm will be made once there is common smoking poses.

Safe vision scope



Vision scope-rear view



Vision scope-side view

Remark:

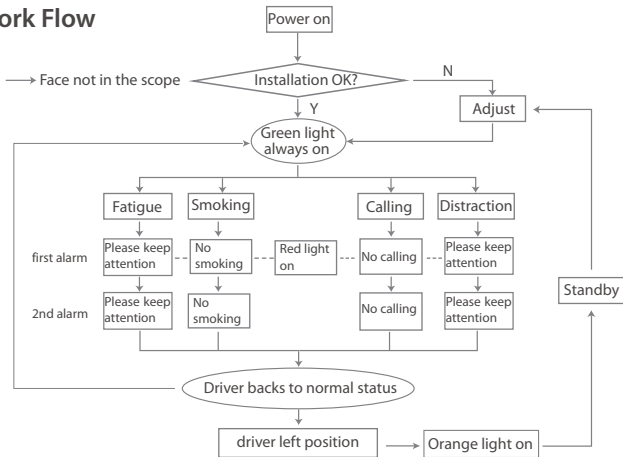
1. Vision scope: green area, safe; red area, unsafe
2. Slightly bow (like look at cellphone), with eyesight under green area, will be considered as fatigue driving and alarm.

Device Work Flow

1. Set up

2. Working

3. Standby



Specifications

Product Name	Daiveraid
Model	DA-P1
Detect Face Types	All + glasses (sunglasses, myopia glasses)
Detect Scopes	face, eye, head pose
Working Condition	day & night (including tunnel, garage)
Working Distance	50-100cm (from device to face)
Fatigue Detect Accuracy	99.2%@ naked eye; (97.4% @wear glasses), keeps over 1.5S
Distraction Detect Accuracy	98.2%, keeps over 3S
Alarm Types	Fatigue/Distraction---Please pay attention; Calling---No calling; Smoking---No smoking
InputVoltage	DC 12 ~ 24V,1A
Support Interface	RS232,RS485,GPIO,UART, Bluetooth (not support all port at same time, please consult technical support for details)
Working Temperature	-20°C to 70°C
Dimension	83 × 45 × 31 mm
Weight	59g

FAQ

Q1: What is the major function of DriverAid?

A: DriverAid is a device to detect the driving behavior and simultaneously alarm if the driver is in fatigue, distraction, calling or smoking states, in that it can prevent car accident and save driver's life.

Q2: How does DriverAid work?

A: With algorithm basement, DriverAid can capture driver's activities like eyelid closure, main facial factors, head pose turning up/down, right/left and so on, to detect if the driver is under fatigue or distraction state, and warn the driver to prevent from accident.

Q3: Is it easy to install?

A: Yes, just 3 steps to install: 1). Tear off the paper protector, stick the device to the chosen position (see User Manual for detailed location), 2). Plug in the power, 3). Keep driving posture and slightly adjust the device to make it face to your face straightly (the device can be turned up/down, left/right with its stand), The installation is completed when the green light is on, then the device can be used normally.

Q4: Is it easy to use?

A: Yes, after power on, the device will start detect and alarm automatically when there is fatigue

driving occur, no need human intervention.

Q5: Can DriverAid work at night?

A: Yes, it can work day&night (including dark places like tunnel and garage), workable at extreme weather like strong sunlight, cloudy, raining and snowing days.

Q6: Can it work when wearing glasses?

A: Yes, but some rare glasses (like special coating glasses or very thick glasses and so on) may affect the detection accuracy.

Q7: Does it fit for various vehicles?

A: Yes, support both left and right handed wheels from private car to varies transport vehicles, trains, as long as the install position meet the device install requirement.

Q8 Is it annoying?

A: There are different sensitive rates for option, the lower sensitive rate, the less annoying it is. You can choose suitable rate according to your need. Meanwhile, Driveraid supports low speed non-alarm function, which won't alarm when at low speed or stop status.

Q9: Is there any privacy issue when use DriverAid?

A: No, DriverAid is NOT a CCTV system, footage is NEVER recorded during the driving.

Operate Precautions

- ❗ Special glasses will influence detect accuracy (like very thick glasses or special coating glasses)
- ❗ When driver's eyes are covered by hair, the device will wrongly considered it as fatigue driving.
- ❗ When the driver left his position, or when his/her face is not in detect scope, the device will keep showing orange light, which means the device is not in working status.
- ❗ When strong sun shines on the device, (from car side window), or shines directly on driver's face, the accuracy rate will be influenced.

Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

NOTE:

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a

particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the device and receiver.

Connect the device into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This device should be installed and operated with minimum distance

between 20cm the radiator your body: Use only the supplied antenna.

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