

This article relates to memoranda posted by participants who are members of automobile shopping mall members' and dash cam users' clubs and who were recruited to our experience team organized to give them opportunity to test our Alert Driver System (ADS) before and after its launch on the market. The following is one of the memos of personal experience written by those bloggers who participated in the test that appeared on major online media and is here provided for the aim of helping users get familiar with the use of our product and its functions.

Alert Driver System



In fact, I was a little worried about drowsy driving. I had to drive a long way to visit my home town during a national holiday period. To avoid traffic jams during the day I decided to depart at midnight. I would have been much help if I had had one like an Alert Driver System (ADS). The thought came clearly to me how it was hard for me to eat candies and chew gums to fight drowsiness all the way.

You shouldn't fall asleep while driving; however, what if you were in a situation in which you feel drowsy in spite of yourself when you have to go a long distance or drive at midnight? I found out that this ADS is the very product that drives away drowsiness at a single stroke.

The eyes get closed when you feel sleepy; Vuemate recognizes your face and gives off the first alarm when your eyes close. If you have your product linked to an electric fan or an alarm bell using an USB, it also goes off. This will get rid of sleepiness completely.

I don't drive while I feel drowsy, but I agree that I can also get drowsy while driving in spite of myself. That is why I have tried one driver alert system after another; however, they did not produce the sure effect of driving away sleepiness completely that I have with the ADS.

I'd like to share my experience of installing a Vuemate in my car, YF Sonata from Hyundai Motors.



Never drive your car when you feel drowsy, for your family and others' families. I've used Vuemate driver drowsiness detection system, which will guarantee my safe driving from unavoidable drowsy situations.

ADS is a product that has gained good remarks from overseas customers. Many drivers who like to decorate their cars seem to have many devices. I am one of that kind and it was natural for me to pick up this "driver alert system." They say many foreign car drivers have already installed this product in their cars.



Drowsy driving is an act of suicide. Get prepared for possible sleepy situations that you may meet while driving.

▲ This picture shows a Vuemate installed in my YF Sonata. I am a driving enthusiast who has had experiences of driving rented cars to owning my own cars. I remember unbearable sleepiness visited me when I drove my car to Gangwon Province in a lazy hot summer day. I just blinked my eyes but continued to step on the accelerator in spite of myself. An alarm would prevent me from falling in such a dangerous situation.



▲ Let's open the box containing the Alert Driver System (ADS). You will see that ADS is the most popular among the driver alert systems if you type in a search word of "driver drowsiness detection system." I have trust in this product and proceed to install it.



▲ This product looks like a small dash cam, which has a camera in front and an infrared sensor on both sides that can sense the driver's face at night.

▲ This is what the front side looks like. It has a camera and infrared sensors as I described.



▲ This picture show what the rear side looks like. The speaker sign and the button shown on the left side is a function key, whose volume (Mute and 1~4) can be adjusted by short presses and whose sensitivity levels (1~3) can be regulated by long presses. The product can be linked to an external device using a USB cable connector or an I/O device. An USB fan or alarm can also be connected.





▲ A hand screw mounted on the side is used to fix the cradle. A guide is mounted to adjust height and angles with ease.



▲ This product is charged using the cigar jack connector; however, one thing that leaves much to be desired is that it should be done using a USB connector. Use of the cigar jack is burdensome because it must be used alternately for a car navigator, a dash cam, or a USB charger. Another USB power cable would be better in order to make convenient connection with either of them.



▲ Double-sided tape strips and cable clips are included



▲ You should get familiar with the User Manual of this driver alert system.



▲ There are three places you can install your ADS - (1) on the dashboard, (2) on the instrument panel, and (3) on the steering column cover. I am told No.3 is recommended. You can use the double-sided tape to fix the product. I've decided to install the product on No.2 location because I'd like to have it organized neatly.

Alert Driver System (ADS)

HOW TO USE

Installation²

I Recommended mounting positions

- Refer to the picture shown below and select a convenient location depending on the type of vehicle.
- Install the product at a location which is a little below the level of the driver's eyes looking ahead.
- Adjust the product on a level with the eyes of the driver.

Recommended location

- Above the steering column cover (recommended)
- At the front bottom of the instrument panel
- Above the dashboard

Recommended distance

±60cm

▲ Operation distance 45-80cm

HOW TO USE

Installation²

I How to install

- First, assemble the cradle to the main body of the product using the fixing screws (adjustable to 3 steps depending on its mounting location).
- Remove foreign materials from your selected location.
- Attach double-sided tape to the bottom of the cradle and fix it at an installation location.
- Adjust the position so that the camera lens can face the driver's eyes.
- Tighten the screws to the cradle when the position is adjusted.
- Now you finish installing the product.

I Cautions for installation

- Improper installation may reduce the recognition rate.
- Be sure to install the product properly; reverse installation does not function properly.
- Make sure that the product is properly installed so that it does not get in the way while turning the wheel.
- When there is a curved area, bend the shape of the cradle so it can maintain a maximum contact surface.



▲ This picture shows the product installed on the instrument panel.

▲ The manual shows where to install the product. You only need to find a place a little lower than your eyesight when you sit upright at the wheel and install it on a level.



▲ This picture shows the product installed at the steering column cover.



▲ This cradle has a guide that allows you to adjust height up and down after installation.



▲ This picture shows the product installed on the dashboard.



Alert Driver System (ADS)

▲ Two strips of double-sided tape are included in the package; you can attach this tape on the bottom of the cradle to fix the product.



▲ I install the product in front of the instrument panel using the tape. The work was not that difficult as I thought it would.

DRIVER ALERT SYSTEM



▲ Green light comes on when the product recognizes your face. It gives off warning signals when you feel sleepy and close your eyes. This system will keep you safe by sending warning sound when you are in danger due to drowsiness.

How to Use
How to Operate ³

I Operational sequence and summary

● : Lit on ✨ : Flickering

Activity	Summary	Operation Status LED	Warning Alarms
1. Power On/Booting	When power is turned on, the system boots and is initialized in about 5 seconds.	OFF → ●●●●	Beep Beep
2. Identification of the pupil's position	When the pupils are situated in the center of the camera, the LED light flickers green. If the pupils maintain their position for about 1 second, the checking will be confirmed (the light continues to flicker when the camera is unable to pinpoint the eyes).	●●●● → ●●●●	Ding-Ding
3. 1st alarm for drowsiness detection	The warning goes off when the driver closes his eyes for a preset sensitivity time (about 1 second) (distracted into all directions (left and right) and up and down) of each 10 degree away from the state of looking straight ahead.	●●●● → ●●●●	Beep—
4. 2nd alarm for drowsiness detection	The warning goes off when the drowsiness continues for 1 second even after the 1st warning and the driver opens his eyes.	●●●● → ●●●●	Beep-Beep-Beep-Beep-Beep
5. Alarm for negligence in looking ahead	The warning goes off when the driver's eye tilts 30-40 degrees toward either side from the state of looking ahead for longer than about 7 seconds.	●●●● → ●●●●	Ding-Ding-
6. Face departure	The warning goes off when the driver's face deviates 60 degrees toward either side from the state of looking ahead (or when the camera does not detect his eyes).	●●●● → ✨	
7. Power OFF	When the power cable is unplugged or the ignition is turned off.	OFF	

▲ Familiarize yourself with the LED colors and warning signals on the User Manual.

Let's open the box containing the Alert Driver System (ADS). You will

▲ The information video clip will tell you about the warning signals. I closed my eyes for testing assuming I feel drowsy, when the warning sound went off immediately. You must not fall asleep behind the wheel; but if you do, ADS will recognize your eye movements and send warning sound immediately.

OPERATING AN ALARM BELL OR AN ELECTRIC FAN BY LINKING THE PRODUCT WITH A USB ACCESSORY



▲ ADS has a 5-pin micro USB connector on its back side. A micro USB to USB gender is used to connect a fan, as well as a USB vibrator, or an LED warning light.



▲ This picture shows an example of how a hung electric fan is connected the ADS. Operation of the fan at the same time of the giving-off of the primary warning sound will bring about more aggressive action to drowsy driving. Perhaps, you'd better have a flashy LED light to produce a dramatic effect. The more flashy an accessory is, the better it will have effects.

RECOGNITION OF FACE BY THE ALERT DRIVER SYSTEM (ADS) AT NIGHT



▲ The ADS can recognize the driver's face day and night. This pictures show the product recognizes the face. Infrared rays are used to recognize the face at night regardless of darkness.

RECOGNITION OF FACE BY THE ADS AT NIGHT (VIDEO CLIP)

<https://youtu.be/CHIWM6cFw-0>

▲ Warning sound gives off immediately when I close my eyes for testing at night.



I have had two close calls over my driving life. I found myself continuing to step on the gas pedal in spite of myself when I drove my car in the middle of night in order to avoid heavy traffic during one national holiday period and when I drove down a slope with an open view in Gangwon Province in a hot lazy summer day.

When you feel sleepy, your eyes close and your head drops, when Vuemate notices a change in your posture and send warning sound to you. I set the sound at its maximum. I am a man who is married with a 3-year daughter. We often go out on an outing in the outskirts of Seoul, and there are many chances of me driving alone while my wife and daughter fall asleep. I am expecting to get great help from Vuemate in the future.

My wife was amazed to watch the ADS installed inside my car when we went for a ride over the weekend. When I closed my eyes for testing, the beeping sound goes off immediately to warn me of drowsy driving. It is the first warning. When I closed my eyes longer, the high-pitched beeps continued, until I finally open my eyes.

To repeat, this driver alert system is kind of insurance. It is No No to fall asleep when you drive. This product is intended to prevent mistakes in advance you may make in spite of yourself. I seem to mention many advantages of this product, but I find out that it would be better if the product could be charged not only with a charging cigar jack connector but also with a USB charger. Pricewise, this product is being offered at KW176,000 which is similar to the one for a dash cam.