

User Manual

ASH-4

The shape and color of the product may be a little different from the pictures.

The picture is for a reference only.

Please read this user manual carefully before using this product.

Outline

Thanks for purchasing the forth-generation product: head-up display (HUD) ASH-4. This product is researched and developed for high-speed cars. When driving at high speed, especially at night, this product is developed to avoid accident when a driver looks down to see the car meter or the audio meter display and can't take effective measures in emergency. ActiSafety HUD ASH-4 is just developed for this case and this product projects these important information (such as speed) of cars onto the windshield glass.

It not only helps novice who is inexperienced in car speed judgment to control the car speed to avoid exceeding the speed limit , but also help drivers read important information(such as speed) in present visual range and always maintain optimal observation with a clear head.

ActiSafety HUD provides a lot of functions used in car. It makes you experience the speed and maintain the driving pleasure and driving Safety at the same time.

This product is researched and developed with high-performance integrated circuits and meets Chinese national standard. It has unique shape and elegant line and ultra-thin body with natural beauty. It also adds a touch of beauty to your car.

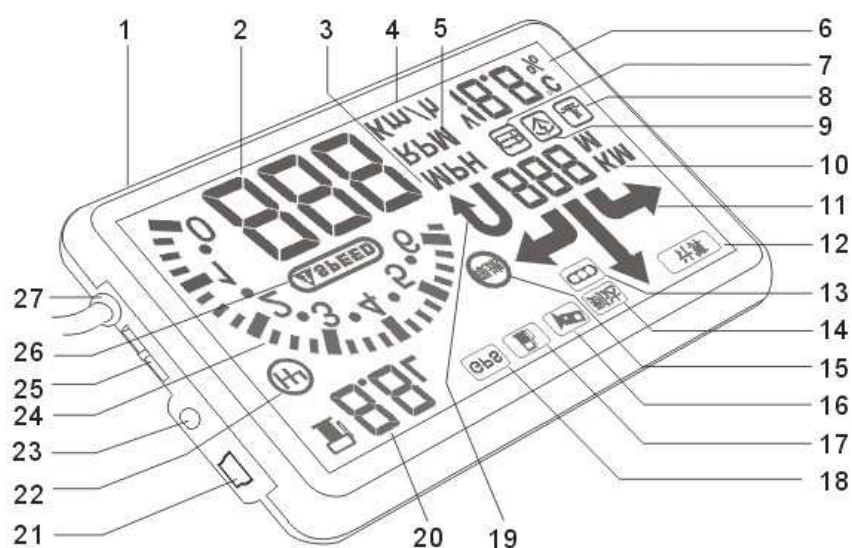
Please read this user manual in detail before using this product so that you can give full play to all the features of this product.

Main Features

1. Car-adapted automatically, can use this product to all cars with interface of OBDII or EUOBD (car automatic diagnosis system), directly plug this product the interface,
2. Display car speed, engine speed, water temperature (voltage / throttle position), fuel consumption, GPS navigation (optional) at the same time
3. Can choose the normal display mode, the high-speed display mode, the automatic display mode,
4. GPS graphics + voice navigation function, Built-in loud speaker, never miss road information(GPS optional)
5. display area; 107 mm x 62 mm, Facilitating data reading
6. Shutdown manually to avoid the power consumption of car, and retain the automatic shutdown at the same time,

7. Single-stage and four-stage alarm of car speed, facilitating the driving safety,
8. Engine speed alarm, facilitating timely shift and saving fuel consumption, especially for novice
9. Automatic and manual brightness adjustment mode, NOT dazzling,

HUD Overall Structure Description



- 1-Function keys A 2-Speed 3-Mile Units 4-Kilometer Units 5-Engine Units
 6-Numerical zone 7-Voltage 8-Temperature icon 9-Throttle Position 10-Distance values
 11-Direction icon 12-Recalculate the route 13-Traffic lights 14-Arrival 15-Speed limit
 16-Camera 17-Gas station 18-GPS Signal Available 19-Turn Round 20-Fuel consumption
 22-Speed alarm 23-GPS Input Port 24-Engine Speed 25-Function Keys B 26-Speed Alarm
 27-Power & Signal Line(Optional)

Preparation Before Installation And Use

1. Confirm your car brand and relevant car information. This product is only used for cars with OBD II(OR EU OBD) interface. Figure 1

Remarks:

Open and look for the sticker under the engine hood, can use this product if it has the sticker with OBDII CERTIFIED. Figure 1.

2. Check if it has the automobile diagnostic socket under the steering wheel(most of car in China has this socket manufactured after the year 2006

- Identify the car's 16-pin diagnostic socket(Figure 2), connecting the OBD II cable to the 16-pin diagnostic socket if it has this socket.



Figure 1



Figure 2

- Put the non-slip pad onto the instrument pane, then put HUD on the non-slip pad. You can adjust the angle an positon.
- The reflective film may be affixed to the forward position of HUD and stick to the front windshield, ensure that the information, such as car speed can be projected to the reflective film,

You can also be installed by the staff of the authorized distributors.

Some Basic Methods Of Using The Reflective Film

- Spray on some water to the position where you stick the reflective film
 - Tear the protective layer of the reflective film and Spray some water on it and then stick it to the corresponding position of the front windshield,
 - After adjusting the position, Calibrating the reflective film using scraper or smooth object and scraping the water until there is no water or bubble.
 - A few minutes later, when the water is dry, gently wipe off the water droplets and dust
- Starting the car and open the HUD, then displaying the voltage and search for the car computer version, this indicates that the product has been installed successfully.

HUD Settings

HUD display value is the value of the car computer. Because the value of the car instrument display may be a little different from the car computer, you can fine-tune the HUD display value to make them the same.

We will make adjustments in accordance with the general test value before selling

HUD. If they are different, you need to adjust as follows:

Adjustment Methods

First switch off HUD and then switch on HUD when pressing function key A at the same time, Speed area displays setting parameter values and Fuel consumption area displays the function menu.(Figure 3)

Car speed fine-tuning: Fuel consumption area displays '0', That is, the menu position '0', Adjustment range:75-125,

Engine speed fine-tuning: Fuel consumption area displays '1', That is, the menu position '1', Adjustment range:75-150,

Fuel consumption fine-tuning: Fuel consumption area displays '2', That is, the menu position '2', Adjustment range:10-250,

For instance: the comprehensive road fuel consumption of the car is 7.6 L/ 100 km, select the value:76.

Engine speed fine-tuning: Fuel consumption area displays '3', That is, the menu position '3', Adjustment range:100-750,

For instance, when alarming at 2500r/min of engine speed, select the value:250, which the display value of HUD*10 is the real engine speed;

Single-stage and four-stage alarm: Fuel consumption area displays '4', That is, the menu position '4', Adjustment range:0-1,

For instance, the single-stage alarm value is set by yourself. When the HUD is on, then press the function key A one time, the alarm value is added 5K/M ,

Four-stage alarm value is 60, 80, 100,120, Adjustment value 0 means the single-stage alarm and Adjustment value 1means the four-stage alarm.

Display Mode: Fuel consumption area displays '5', That is, the menu position '5', Adjustment range:0-2.

For instance: Adjustment value 0 means the normal display mode, that is, all functions display normally, adjustment value 1 means the automatic display mode, that is, all functions display normally; When car speed is less than the 80KM / H, the normal mode is displayed; When car speed is more than the 80KM / H, the high-speed mode is displayed; adjustment value 2 means the high-speed display mode, that is, displaying car speed, fuel consumption and GPS navigation.

Manual / automatic brightness adjustment mode: Fuel consumption area displays '6', That is, the menu position '6', Adjustment range:0-2,

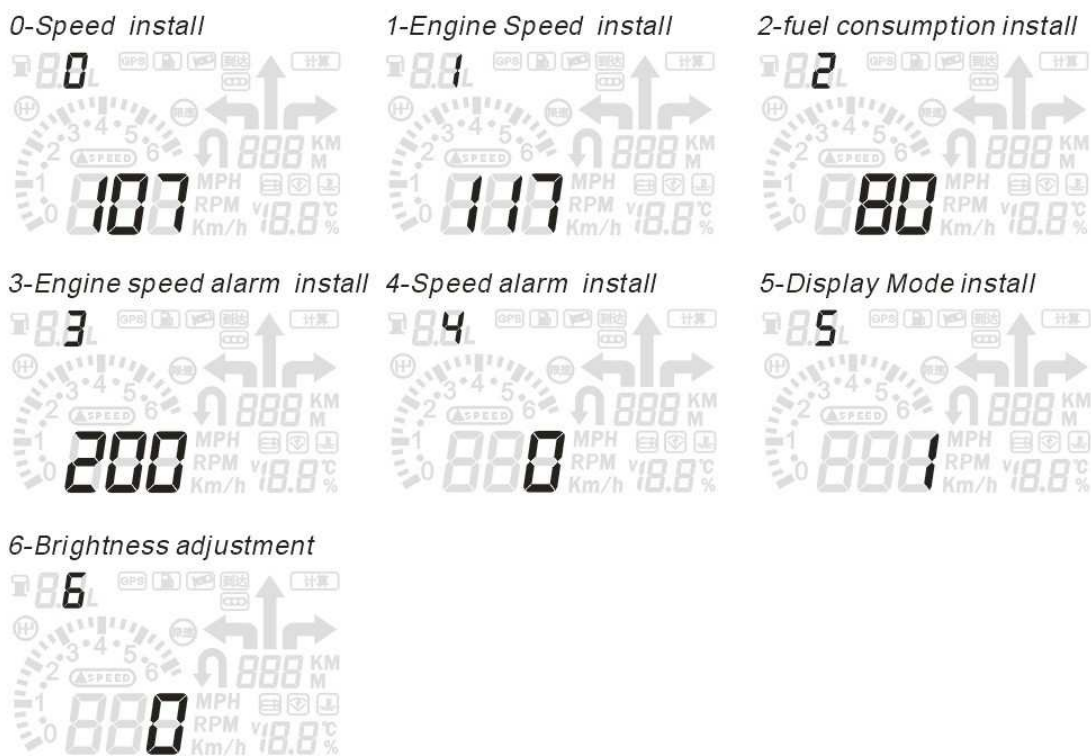
- (1) Using the function keys A to select menu, Each time you press the function keys A ,then select a menu;
- (2) Using the function keys B to adjust the parameter values
- (3) After adjustment, restart HUD.

According to the automobile manufacturers comprehensive road fuel consumption or The MIIT (China Ministry of Industry) comprehensive road fuel consumption standards, Fuel consumption parameter values are calculated.

Specific fuel consumption parameter values are as follow address:

http://db.auto.sohu.com/fcstat_list.shtml (Only for Mainland China)

Figure 3



Function Instructions

1. Function key A—press this key 'A' and switch on HUD, then enter the setup mode. Then press 'A' to increase the speed alarm value.
2. Car speed—Figures show the current car speed.
3. Mile unit—Some countries use MPH as a speed measurement unit. HUD can show mile unit.
4. Km unit—As international System of Units, we usually use Kmh.
5. Engine Speed unit—Rev / min, the HUD display value(multiplied by 10) is the car speed, only display a ten-digit.

6. Digital +unit—use the function key 'B' to display voltage, water temperature and the throttle position.
7. Voltage—When this icon lights up, Digital +unit icon displays the voltage.
8. Water temperature icon—When this icon lights up, Digital +unit icon displays the water temperature.
9. Throttle position—When this icon lights up, Digital +unit icon displays the throttle position. This value reflects the throttle size
10. Distance icon—this icon displays the distance ahead during GPS navigation.
11. Direction icon—this icon displays the driving directing during GPS navigation.
12. Recalculating the route icon—Recalculating the route during GPS navigation.
13. When this icon lights up, it reminds you the traffic lights ahead during GPS navigation.
14. When this icon lights up, it means you reach your destination during GPS navigation.
15. When this icon lights up, it reminds you the speed limit during GPS navigation.
16. When this icon lights up, it reminds you the camera ahead during GPS navigation.
17. When this icon lights up, it reminds you the gas station ahead during GPS navigation.
18. GPS icon--When this icon lights up, it means there is GPS signal , otherwise no GPS signal during GPS navigation.
19. U-turn icon—When this icon lights up, it reminds you to making a U-turn during GPS navigation.
20. Fuel consumption icon—this figure shows the instantaneous fuel consumption per 100Km.
21. Data input interface—it's used to upgrade and update HUD for HUD manufacturer.
22. Engine speed alarm icon—The alarm value can be set and No alarm when the car speed exceeds 60km/h.
23. GPS input interface—connecting your headphone port to this GPS input interface to Transmit the phone GPS navigation data.
24. Engine speed icon—this icon shows the value of the engine speed. The display value multiplied by 1000RPM is the real engine speed of the car.
25. Function key B—push up this function key B to switch and dispaly voltage / water temperature / throttle / speed / engine speed / mile; push down this function key B to switch off the alarm microphone. The number '0' means that the alarm microphone is off, The number '1' means that the alarm microphone is on. In the setting mode, push up or down this function key B to increase or decrease the value.
26. Car speed alarm icon—When this icon lights up, it means the present car speed exceeds the set car speed alarm.
27. Power and data line- Connect the OBD interface to power.

Detailed Installation And Use Of The GPS Navigation

1. **installation for a smart phone with OVI Maps(ASH-4-GPS only supports NOKIA smart phones OVI map):**

A.

Download OVI Maps and install it to your NOKIA smart phone.

Download Add: <http://www.nokia.com.cn/explore-services/ovi-maps/downloads>

Firstly, Confirm your NOKIA smart phone type and install the corresponding program. Please refer to the installation instructions of the official website.(the mobile phone with installed OVI Maps can be ignored)

B.

Installing NOKIA smart phone GPS voice packets

- Download the compressed files and extract these files to a directory "cities \ diskcache \ voices" ,then Run OVI map program, enter Options - Settings - Navigation - drive navigation and choose the voice package you want to install(Figure 4).

Mandarin (Chinese)- Woman

Download Add: http://www.xitern.com/actisafety/mandarin_chinese_f.zip

Cantonese - Woman

Download Add: http://www.xitern.com/actisafety/cantonese_f.zip

English - Woman

Download Add: http://www.xitern.com/actisafety/english_f.zip

English - man

Download Add: http://www.xitern.com/actisafety/english_m.zip

English (U.S.) - Man

Download Add: http://www.xitern.com/actisafety/english_us_m.zip

2. Set the NOKIA smart phone to navigate

Run the smart phone navigation software. First of all, the destination must be set and then navigate normally. Adjusting the phone volume maximization.

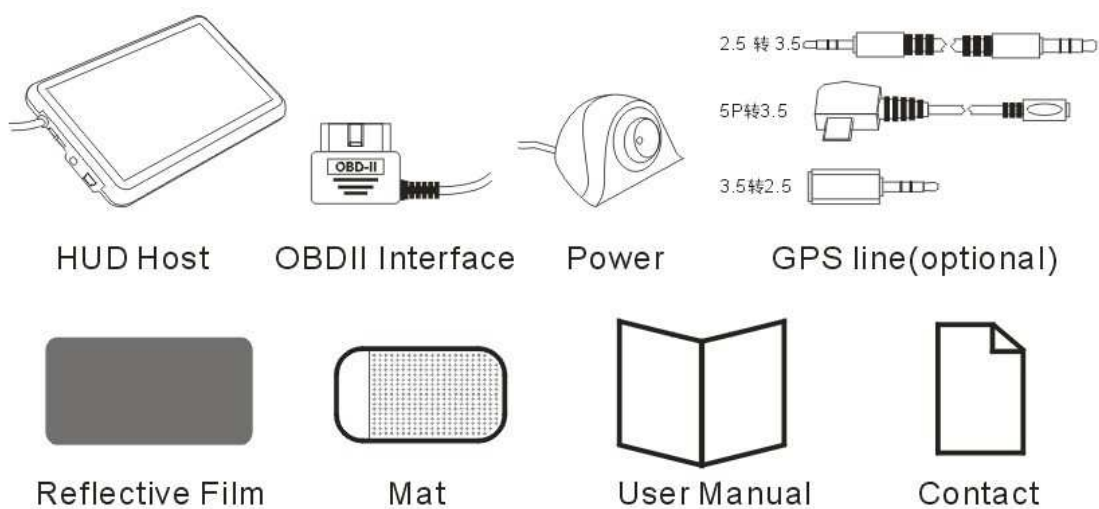
3. Connection of the phone with HUD

Connect the phone headset port to the GPS function input interface of HUD with the connecting wires

Figure 4



Packing List



Common Breakdown, Possible Causes And Treatment

Breakdown	Possible causes	Treatment
No car speed alarm	The set value is too high, or turned off the alarm microphone	Cancel the staging alarm , or turn on the alarm microphone
No engine speed alarm	The set value is too high, or turned off the alarm microphone	Reset the value, or turn on the alarm microphone
No response when power on	HUD turned off	Turn on HUD
Inaccurate fuel consumption display value	Without air flow sensor	Set the comprehensive oil consumption value according to car manufacture's standard
No car speed or engine speed display	Your car does not comply with the OBDII or EU-OBDD	Inquiry about automobile manufacturers whether the car comply with this standard
GPS doesn't work	Microphone's voice is too low or voice software does not install	Turn up the microphone or install the voice software

Remarks: If the problem encountered during the use of HUD and can't be solved effectively, please contact the local sales representatives , or contact the local repair

Main Technical Specifications

1. Conditions of Use

Temperature:-40°C—+80°C at atmospheric pressure:86-106KPa
 relative humidity :10% -95%, noise <= 60dB (A)

2. Alarm sound level : >=30dB (A)
3. Operating voltage: 9V ~ 16Vdc (12Vdc/110mA)
4. Product size: 135 x 85x 14 mm
5. Total Wt: 350g
6. The major electronic components are consistent with ROHS standard
7. Meet 3C standards in China

Warranty Description

We carry out The Three Guarantees strictly according to national regulation.

1. From the date of purchase, we refund HUD within 7 days if HUD doesn't work and some functions of HUD are damaged. We replace HUD within 8-15 days if some functions of HUD are damaged(except for wear and tear).
2. 12 months free warranty service from the date of purchase. Users can go to the repair place to repair HUD with warranty card and invoice or receipt. The warranty card with the purchase invoice or receipt is as the warranty certificate. The warranty card must be filled out by the distributors and be sealed.
3. The following will be implemented paid maintenance.
 - A. Unable to provide the warranty card and valid invoice or receipt;

- B. The content of the warranty card does not match the HUD or was altered.
- C. damages caused by use, repairing or keeping not according to the user instructions for use of products.
- D. damages caused by the professional maintenance staff.
- E. Damage due to force majeure.

Company Information:

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