



PTHUDXC05

HUD Vehicle Mounted Head Up Users Operation Instruction Manual

Product Introduction

Thanks you for purchasing the PowerTrain head up display (HUD). Before using this product, please read the instruction manual in detail to know and best make use of all of its functions. Please ensure you check your local laws first surrounding the use of this product.

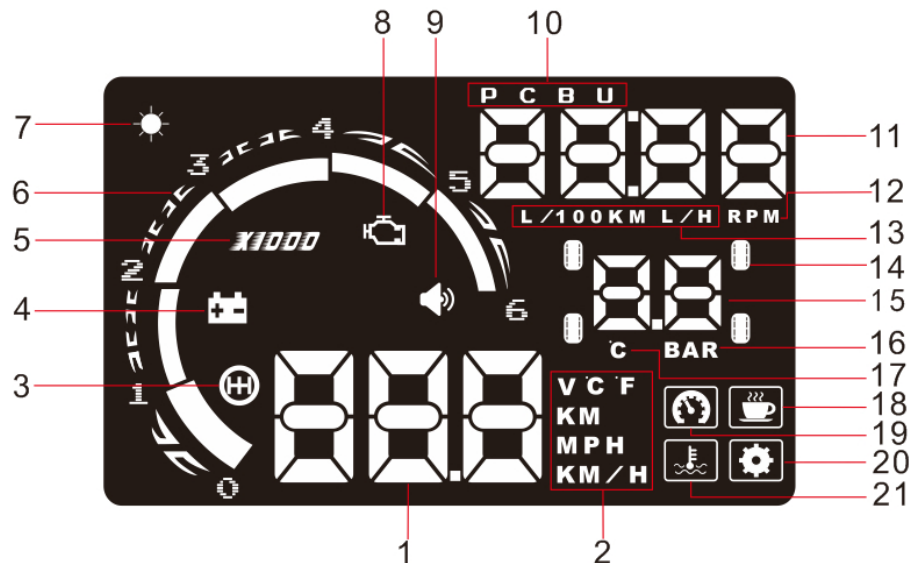
When driving at a high speed, especially at night, the driver may look down at the instrument panel, this momentary look may cause accidents as a result of the driver taking their eyes off the road. To reduce the likelihood of this occurring, some high end vehicles are equipped with a HUD system which can project important information onto the front windshield at the eye level of the driver.

This is a multi-functional HUD product which is developed based on the OBD II interface and has good cost-performance ratio. It is designed by adopting the latest integrated circuit with stable performance and has a beautiful and elegant appearance. The installation and adjustment test can be finished within 3 minutes by using a safe and easy installation method.

Product Outlook

Display Functions

1. Speed: Indicates the current speed.
2. Unit marks: V-voltage, °C-degree Celsius, °F -degree Fahrenheit , KM-Kilo meter , MPH-Mile , KM/H- kilo meter per hour
3. Gear shift reminder: Reminds the driver to gear up to save fuel when the engine speed hits user defined value.
4. Battery voltage: When the battery voltage is less than or reaches 12V the caution light will light up to remind.
5. Engine revolution scale
6. Engine revolution: Shows engine revolutions per minute (RPM)
7. Light sensors: Brightness can be changed with conditions
8. Engine failure icon : The icon will light up if engine has fault
9. Buzzer on/off: Shows buzzer status



10. Fault code: Lights up if a fault is reported from vehicles computer
11. Multi-functional display area: Toggle to display fuel consumption, revolving speed or fault code.
12. Engine revolving speed unit: Shows RPM when (11) is set to display revolving speed
13. Fuel consumption unit: Shows fuel consumption in L/100km or L/hour when (11) is set to display
14. Tyre indicator: Shows which tyre reading is coming from (requires optional sensors)
15. Tyre pressure and temperature display area: Shows tyre pressure or temperature (requires optional sensors)
16. Tyre pressure unit: (requires optional sensors)
17. Tyre temperature unit: (requires optional sensors)
18. Drowsy driving indicator: Icon will flicker and alarm will sound when pre-set value is reached
19. Over speed alarm: Icon will flicker and alarm will sound when pre-set value is reached
20. Setting status indicator
21. Water temperature: When the temperature reaches 100 degree centigrade alarm will sound and alarm light will show.

Connections & Buttons



1. Not used
2. Power switch
3. OBDII data interface
4. Up button
5. Okay button
6. Down button

Initial Use

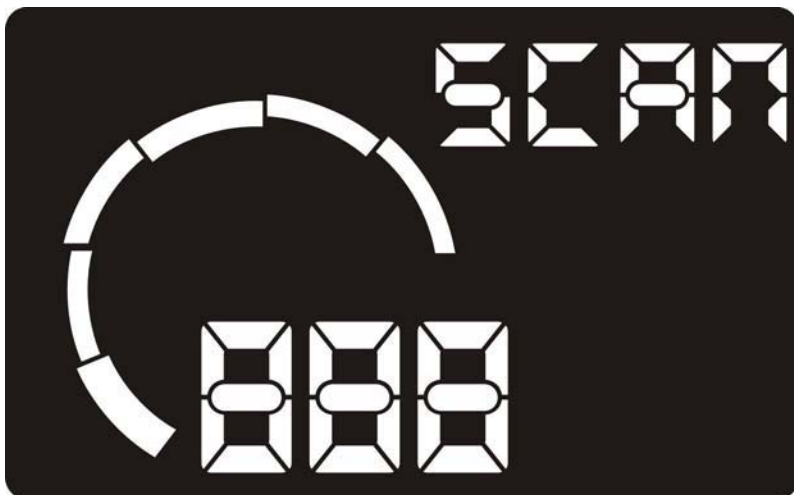
Once connected start the vehicle and turn on the HUD power supply switch. The boot screen will show and "HUD" will be displayed as below.



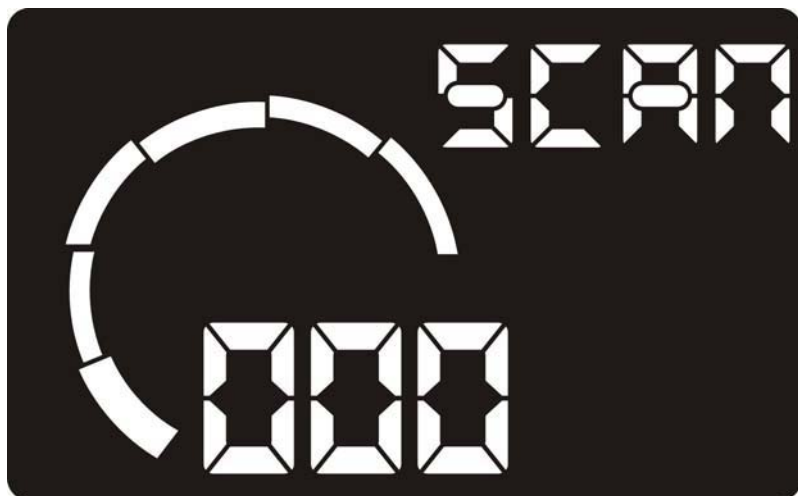
HUD will then start to scan the car communication treaty, the upper right corner displays "SCAN" and the lower left corner will show the current communication treaty. The first number represents: 1st treaty ISO9141-2, 2nd treaty ISO15765, 3rd treaty ISO14230. The second number represents the sub-treaty of the treaty, for example "1...1" represents the first kind of communication treaty of ISO9141-2 is under scanning.



When the scanning has finished and successfully matched the treaty, "888" will be showed at the lower left corner. The HUD will save communication information automatically and start working.



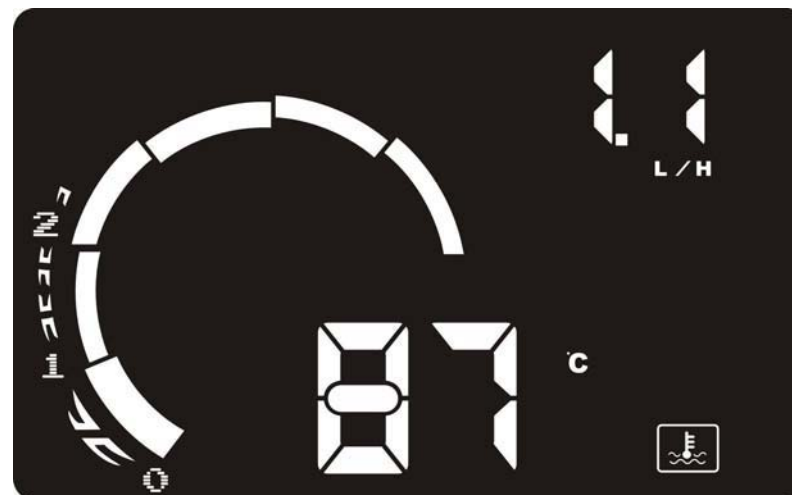
If the scanning failed "000" will show in the lower left corner. Switch off the unit and check all connections are secure restart the unit to scan again.



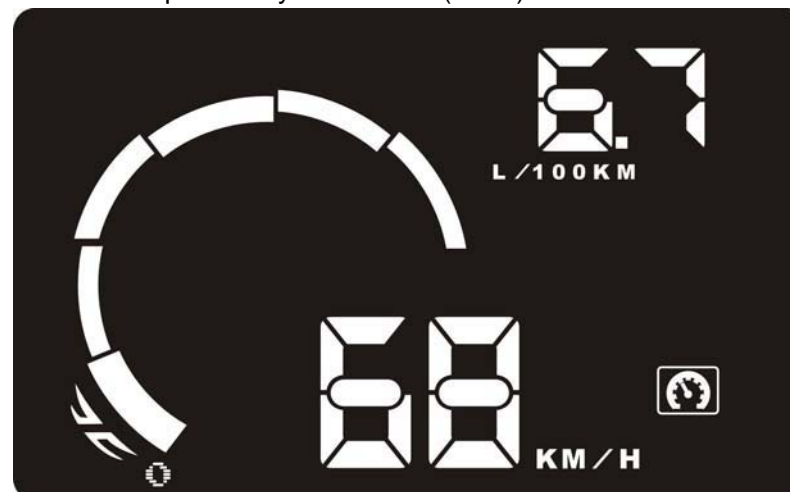
Normal use

Based on vehicle status the HUD unit has three working modes: Idle mode, cruise mode, driving information

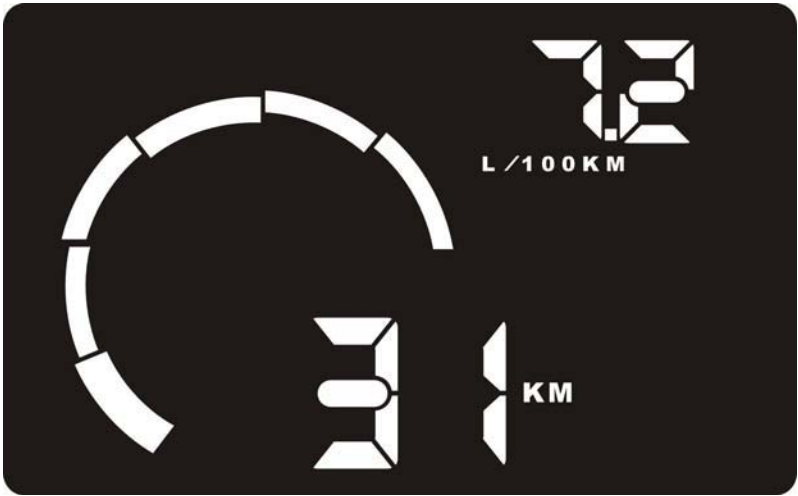
Idle mode: While engine is running and vehicle is motionless status, HUD unit will display water temperature, instant fuel consumption static state fuel consumption (L/H)



Cruise mode: While vehicle is moving the HUD will display vehicle speed and fuel consumption in dynamic state (L/KM)



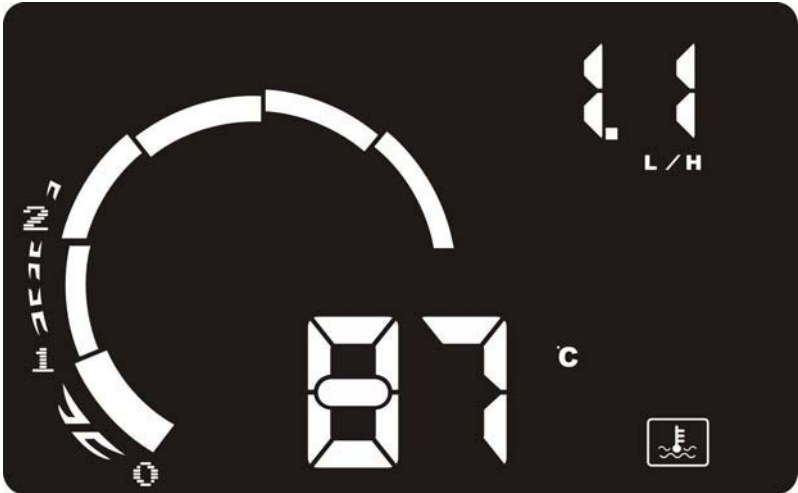
Driving information : Switch off the vehicle, HUD shows the mileage and average fuel consumption of last trip (L/100KM)



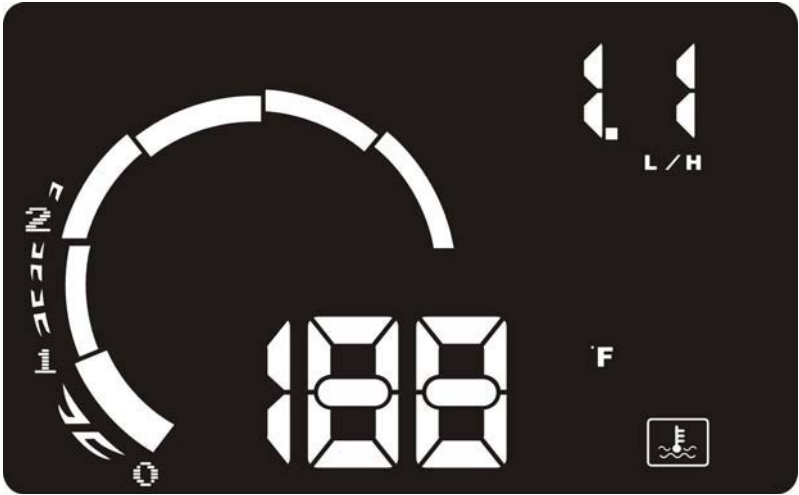
Toggle up/down/OK button to view different information.

Upper right corner shows fuel consumption static state (L/H), fuel consumption dynamic state (L/100Km), engine speed, driving time of last trip and fault codes.

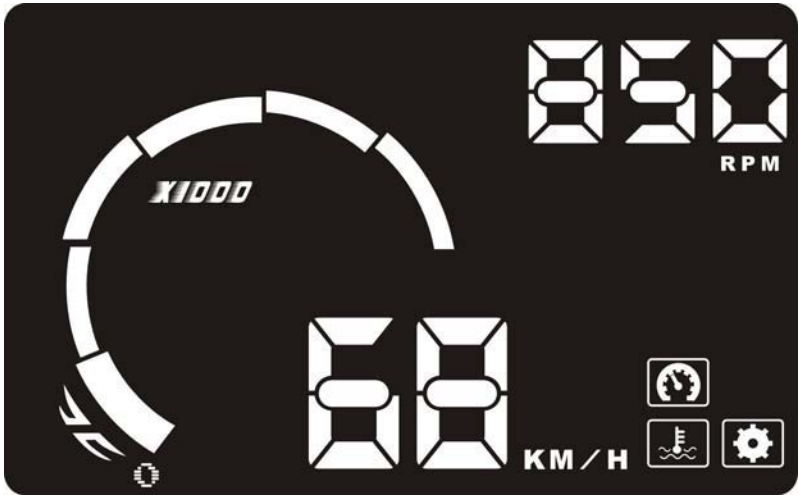
Lower left corner shows: vehicle speed, water temperature, mileage of trip and battery voltage.



Water temperature, fuel consumption static (L/H)



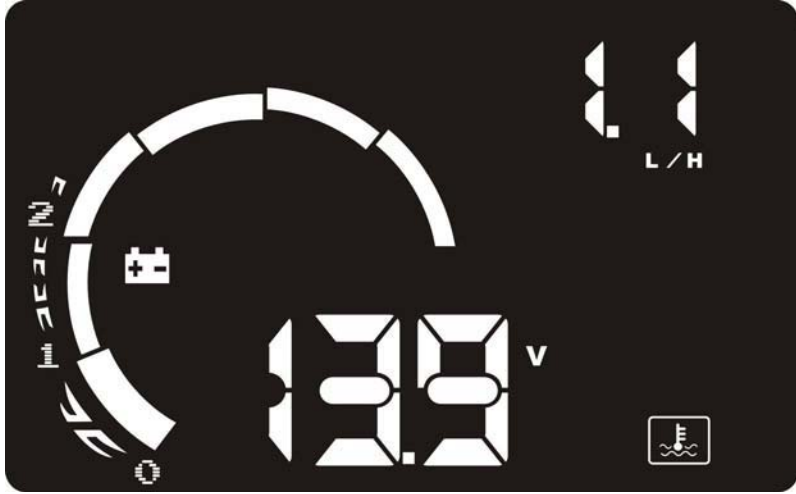
Vehicle speed (KM/H), engine revolving speed (RPM)



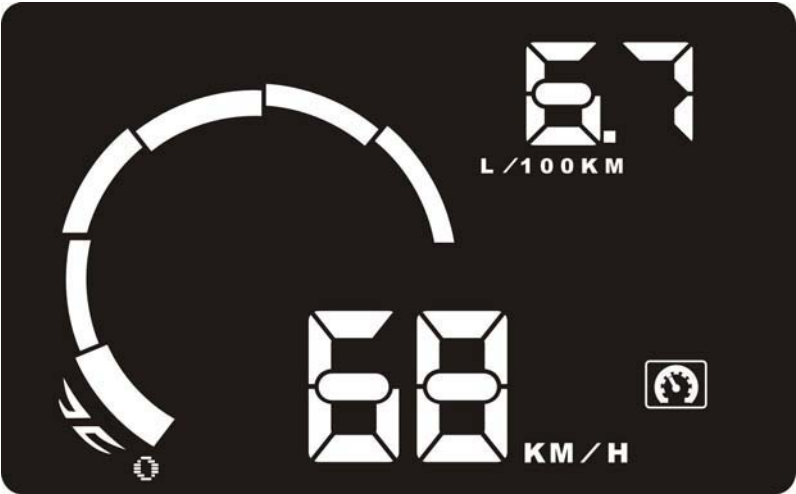
Vehicle speed (KM/H), driving time (hour: minute)



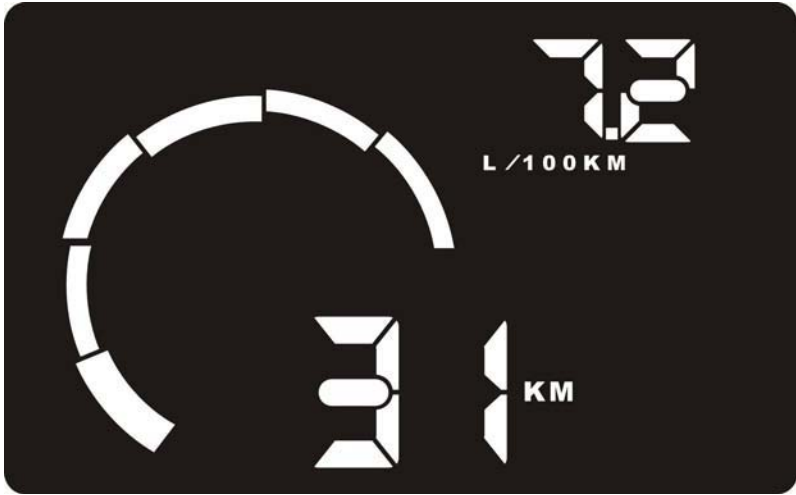
Battery voltage (V), fuel consumption static state (L/H)



Vehicle speed (KM/H), fuel consumption dynamic state (L/100KM)



Distance of trip (KM), fuel consumption dynamic state (L/100KM)



Alarms and Reminders

The HUD has the following reminder and alarm functions:

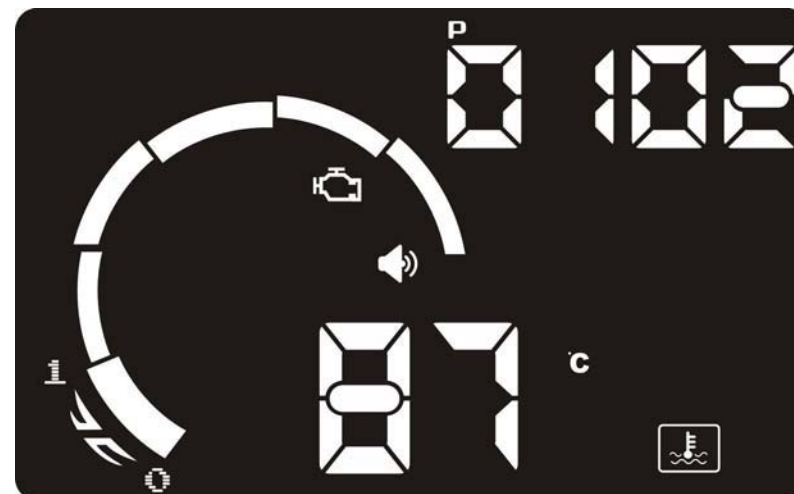
Over speed alarm: When the vehicle speed exceeds pre-set value, the value and icon for speed will flicker and alarm will sound.



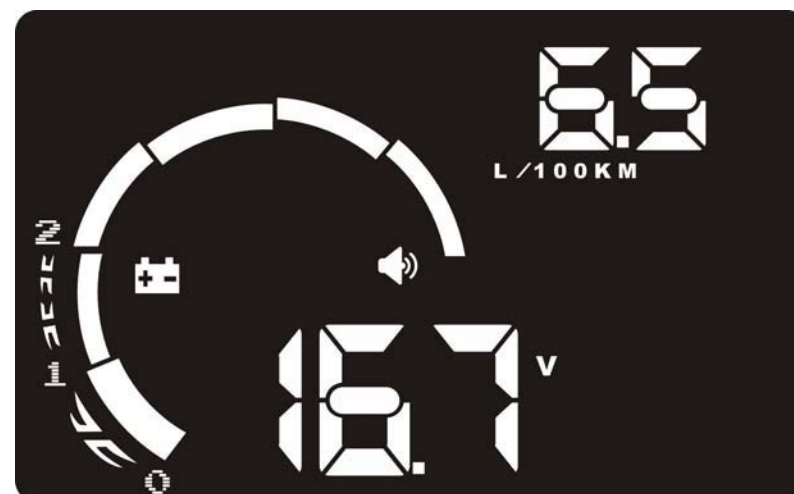
Water temperature alarm: When the water temperature exceeds pre-set value, the value and icon for water temperature will flicker and alarm will sound.



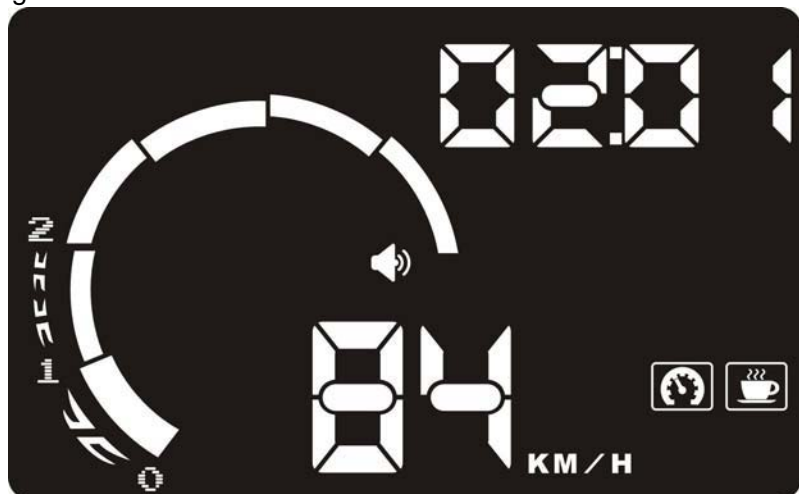
Vehicle failure warning: If vehicle faults, the fault code and fault mark will light up and the alarm will sound. The upper right corner shows current fault code as shown in the below example (P0102). If a fault is reported refer to related information for the fault code from vehicle manual or internet. Toggle the up/down button to view any other fault codes



Voltage alarm: When the voltage falls below pre-set value the corresponding number and icon will flicker and alarm will sound.



Drowsy driver: If the driving time exceeds pre-set value the rest mark and warning mark will flicker and alarm will sound.



Menu settings

Toggle the up and down button to enter the setting interface. Press the OK button to go into setting menu. Toggle up/down button to set the value then press OK button to save the setting.

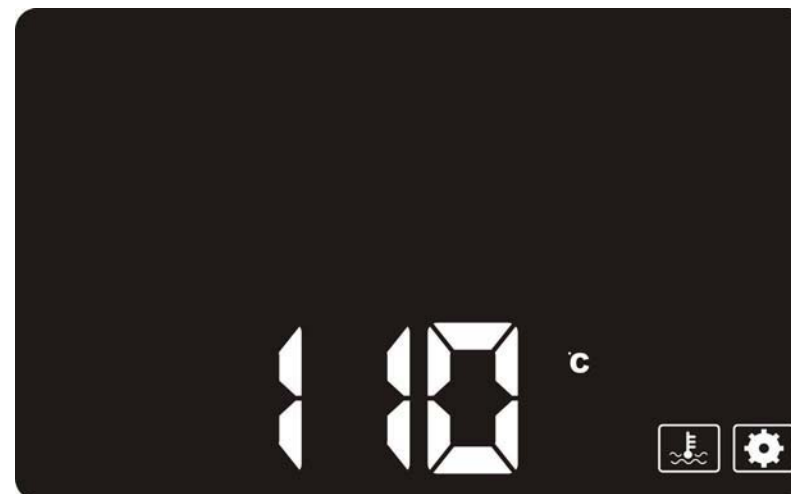
Vehicle failure warning



Drowsy driver warning



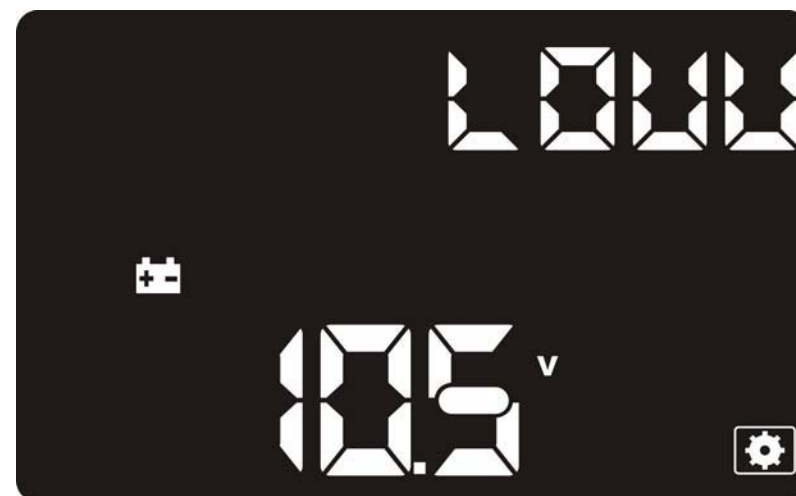
Water temperature



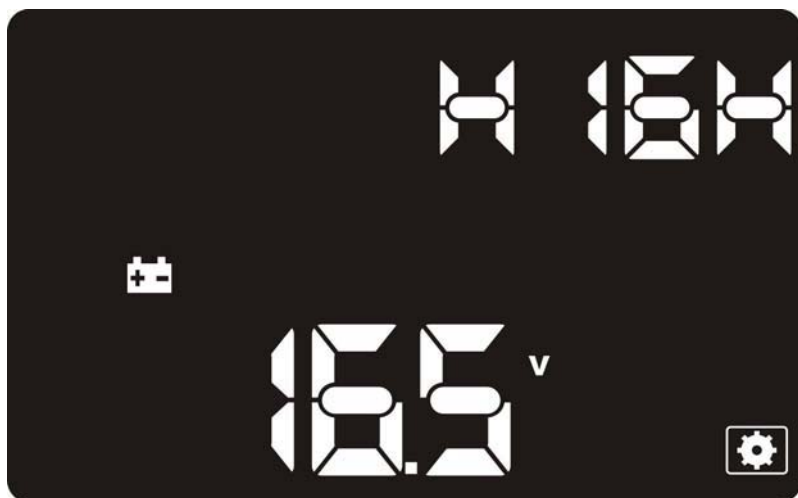
Over speed warning



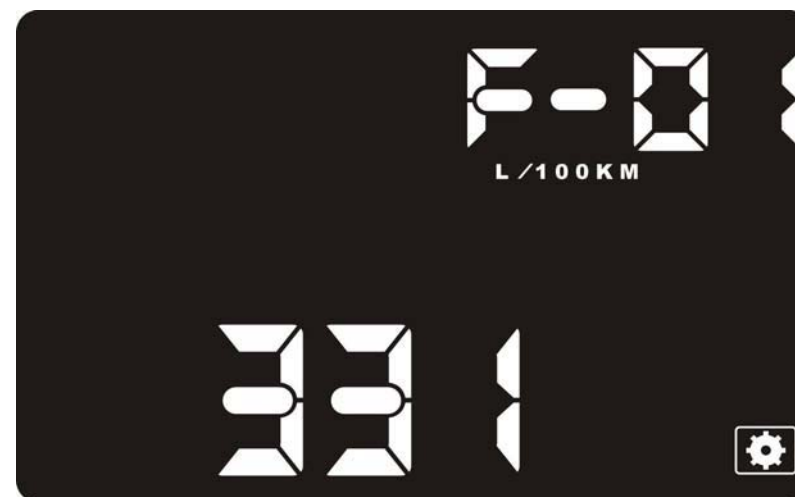
Low battery voltage warning



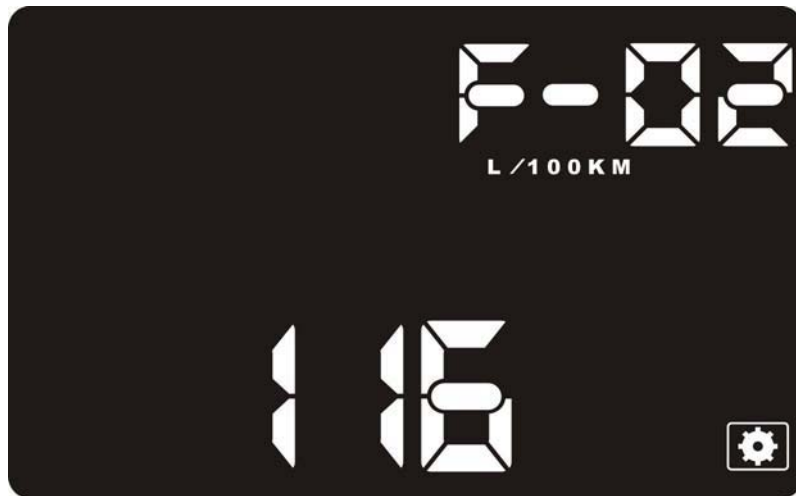
Low voltage warning



Instant fuel consumption coefficient



Average fuel consumption coefficient setting.



Buzzer warning



Restore to factory setting

The first time the HUD is used it will scan the vehicle communication mode and lock into this mode. You will need to restore the unit to factory setting if it is changed to another vehicle.

1. Switch unit off
2. Press the OK button and switch on the power at the same time.
3. Upper right corner of display will show "0" and lower left corner will also shows "0" indicating unit has finished restore setting.

Installation

1. Check to ensure your vehicle features OBDII most vehicles produced from year 2000 onwards will have one. If you are not sure then a quick search on the internet should help, otherwise try locating it as below.



2. Locate the 16 pin diagnostic link (see the picture below) of the vehicle and connect HUD. Usually this is located under or around steering wheel column or near handbrake. If you have trouble locating your OBDII port then please search the internet using keywords 'make model year of vehicle OBDII port location'
3. Place the non-slip mat on the dash in front of where you would like it to project to on windshield and place the HUD unit on top.
4. The reflecting film should be pasted right above the HUD where the image is to be projected.
 - a) Evenly apply water the place where the film will be pasted on
 - b) Rip off the covering layer of the film and apply water both sides of it. Fix to the windshield.
 - c) After you have adjusted the location of the film you can using a scratch board or something flat to squeeze the water inside out until there is no bubble or water between surface and film.
 - d) Wait a few minutes for the moisture to totally evaporate. Then finish by wiping away any water and dust surrounding film.

Contents of Box

1. Host machine of HUD × 1
2. Reflecting film × 1
3. OBD connecting line ×1
4. Instruction manual ×1
5. Non-slip mat × 1