

# Car HUD Head Up Display

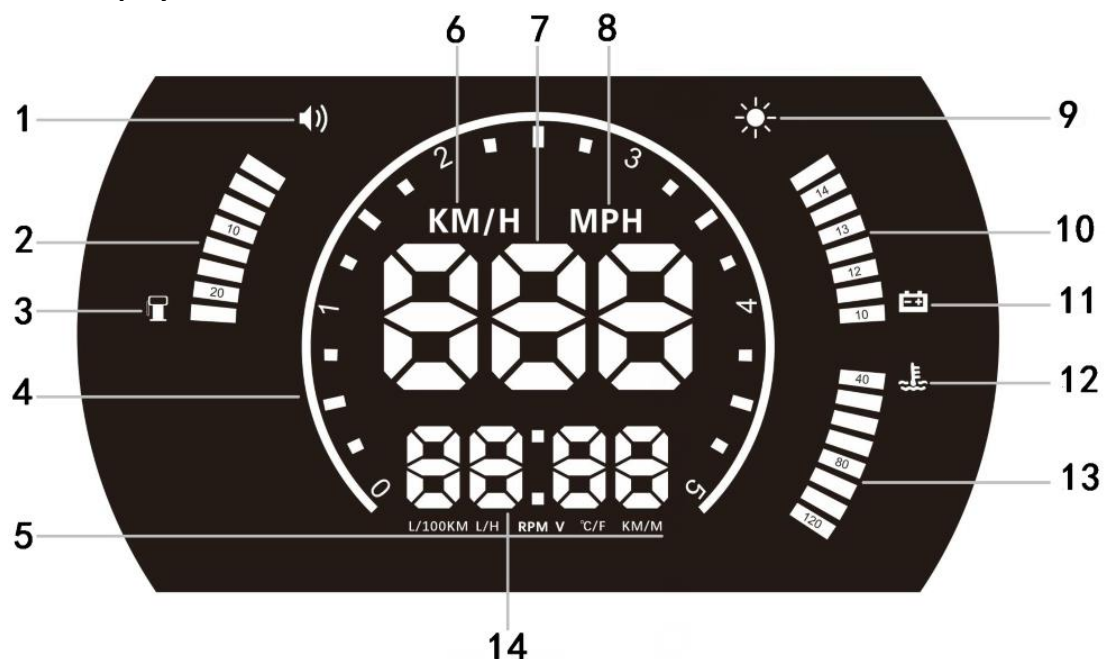
User manual

Model: S600

## Introduction

HUD short for Head Up Display. It displays driving datas on the front windshield such as speed, RPM, fuel consumption, water temperature, voltage etc on the car front window glass; avoiding drivers unsafety because of watching the instrument while driving. Drivers can read the driving information instantly , and can always keep the best state on the way with HUD.

## HUD Display functions



1. Buzzer
2. Fuel consumption
3. Fuel consumption icon
4. RPM
5. Multi functions unit: L/100KM=Unit of Average fuel consumption for each 100KM, L/H=instantaneous fuel consumption, RPM=Engine speed, V=Voltage, °C/°F=Water temperature in different unit, KM/M=Single Driving Distance in Kilometer or Mile
6. Driving Speed unit at KM/H
7. Speed
8. Driving Speed unit at Mile
9. Light sensor
10. Voltage
11. Voltage icon (it will flash when give the low voltage alarm)

- 12. Water temperature icon(it will flash when give the high water temperature alarm)
- 13. Water temperature
- 14. Multi functions display area: instantaneous fuel consumption for 100 kilometers/Instantaneous fuel consumption/RPM/Voltage/Water temperature/Single Driving Distance can be switched

#### **HUD keys functions,when the wave button is on the right**



Long pull up: All the lights will be on, to eliminate the fault code

Long pull down: turn off/on the buzzer

Long press in: to enter into the setting menu

Short press in:(1)to switch the multi functions of RPM/Water temperature/Single driving distance (2)when enter into the setting menu, short press in the button to add the menu

Short pull up :when enter into the setting menu, to add the default value for each menu

Short pull down:(1)to switch the display mode:normal display mode or simple display mode (2)when enter into the setting menu,to decrease the default value

#### **Buzzer**

When HUD is power on,Long pull down the button for 5 seconds,will turn off the buzzer,do it again to turn on the buzzer

#### **Clear the fault code**

When HUD is power on,long pull up the button for 5 seconds,then all the lights are bright,HUD will give a sound of “di”, it means finished






#### **Factory reset**








When HUD is power on,long press in the setting button for 5 seconds to enter into the menu setting mode,short press in the button for 12 times to menu 12,the default value is 0,short pull up or pull down to change it at 1,then long press in the button for 5 seconds to save and exit


**HUD setting:**

HUD display information is from ECU, because when producing car, there is a difference between vehicle dashboard and ECU , then you can enter the setup mode to fine-tune the HUD display value, in order to achieve exactly the same value as dashboard. We have adjusted HUD according to the general test values at the factory, if you find HUD display information is different from dashboard, then make the following adjustments:

Vertical long press in the setting button for 5s to enter the menu setting, vertical short press to increase the menu option ,up and down the setting button to increase or decrease the parameter value. After adjustment, vertical long press 5 seconds to save and exit.

Menu	Parameters	Adjustment range	How to adjust	Default value	Display Status
0	Speed	50-150	If the speed is different with dashboard, it can be adjusted	107	
1	RPM	50-150	If the RPM is different with dashboard, it can be adjusted	100	
2	Fuel consumption	50-150	If it is different with dashboard, it is adjustable	100	
3	RPM alarm	1000-7500	HUD will give the alarm when the RPM reach to 5000 r, the default alarm can be changed	5000	
4	Over speed alarm	30-250	When the driving speed reach to 150, HUD will give the alarm, the default value can be changed by short pull up or pull down then button	150	

5	Display Mode	0-1	0=HUD display(read from the windshield reflection), 1=read from the HUD device directly	0	
6	Brightness adjustment	0-2	0 =automatic brightness adjustment, 1=darkest, 2=brightest	0	
7	Speed unit	0-1	0=KM/H 1=MPH	0	
8	Water temperature unit	0-1	0=°C 1=°F	0	
9	Single Driving distance unit	0-1	0=Kilometer 1=Mile	0	
10	Start reference voltage	0-15.0V	If HUD cannot auto turn off,or the car are with ASS(Automatic start/stop system),change the voltage at 13.2V or 13.8V	0	
11	Delayed shutdown	00:10-09:00	The default value for HUD shutdown time is 00:10  10(means after 10 seconds, HUD will turn off),when the car is automatic start/stop system, you can delay the shutdown time to 01:80 (means 180s)	00: 10	

12	Factory reset	0-1	Set to 1, vertically press in the setting button for 5s, then return to the display interface.	0	
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## HUD installation

1. Know your vehicle brand, HUD work for cars with OBDII agreement or EU OBD agreement. Open the engine hood and find the sticker below it (see the below picture 1), if it has words like OBDII CERTIFIED, then it can be installed.

2. Find out the 16 pin diagnostic link (see the below picture 2) of the vehicle and connect it well with OBDII connecting line.



Picture 1



Picture 2

First time to use HUD:

When HUD is power on, it will show the voltage and scan the OBD2 program, if it displays the fuel consumption, speed, RPM, it means installation successfully. (If after a few minutes, it still show the voltage only, please check the HUD device, OBD cable, and OBD2 interface if has been plugged well or not, and turn on the HUD again.)

## Technical Parameters:

Environment temperature: -40c- + 80c atmospheric pressure 86-106KPa

Relative Humidity: 10% -95% environmental noise <= 60dB (A)

Alarm sound level: 》 = 30dB (A)

Working voltage: 9V ~ 16Vdc (12Vdc / 400mA)

## **Troubleshooting**

### **1.The screen without any display,and no power**

Start the car engine;check if the OBD cable line is tight;please pull down the OBD cables more times to ensure;check if HUD power switch turns on. If no display still,please change another car to test, analyze whether the car OBD diagnostic interface is good, if it is not good,please repair it and try again.

### **2.When HUD power on, HUD only shows the car voltage and be automatic power off after 30 seconds driving.**

HUD just available for cars with OBD2 agreement and EU-OBD agreement (European region: after 03 years, Other region:after 07 years)

HUD Products donnot support JOBD and OBDI and recommended test for another car.

### **3.See not clearly when HUD under the sunlight.**

Check whether the HUD host surface protective film is torn,and please stick the reflection film in the gift box corresponding on the windscreen.Or vertical press in 5 seconds to enter into menu setting when HUD is power on,short press 6 times to menu 6,adjust the parameter to 2,vertical press in 5 seconds to save.

### **4.Wrong operation lead to crashes**

Do a factory reset

When HUD is power on,long press in the setting button for 5 seconds to enter into the menu setting mode,short press in the button for 12 times to menu 12,the default value is 0,short pull up or pull down to change it at 1,then long press in the button for 5 seconds to save and exit

### **5.Inaccurate Speed**

a.First check the speed unit is correct or not, the speed unit including KM/H and MPH, set it at the correct one(refer to menu 7)

b.When HUD is power on,vertical press the setting button for 5 seconds to enter into the menu options 0 and the parameter shows 107,up or down the setting button to increase or decrease the value according to the difference until it shows correct one.After adjustment, vertical press in 5 seconds to save it.

### **6.Inaccurate RPM**

When HUD is power on,vertical press in the setting button for 5 seconds to enter into the menu,then short press in 1 time to menu 1,the default value is 100,short pull up or down the button to adjust same as dashboard. After finishing the adjustment, vertical press in 5 seconds to save it

## **7.Inaccurate fuel consumption**

The unit for fuel consumption is L/100KM, HUD display is the single driving fuel consumption, while car display is Integrated average driving fuel consumption, so it is normal if there are difference.

HUD display three kinds of fuel consumption

- a.Idle mode: HUD display Instantaneous fuel consumption per hour (L/H), it means HUD can figure out how much oil the car will consumed after start engine in one hour
- b. Driving mode: HUD display Instantaneous fuel consumption of 100KM
- c. Finish driving: HUD display is average fuel consumption of 100KM, when turn off the car, HUD will auto turn off in 10s

## **8.Setting for the over speed alarm**

The default over speed alarm value is 150.If the user want to adjust the value, please do as follow steps:

When HUD is working, vertically press in the setting button for 5 seconds to enter into the menu, short press in the button for 4 times, the screen shows 150,which means the HUD will give the alarm once the speed over 150,up or down the button to change the value as you want, vertical press in the button for 5 seconds to save the data.

## **9. When HUD cannot automatically power off or can power off but it re-start again**

Vertical press in 5 seconds to enter into menu setting, short press 10 times to menu 10,the default parameter is 0, up or down change it to 13.2V -13.8V, vertical press in 5 seconds to save and exit.

## **10.HUD will power off when driving**

When Automatic start/stop system cars is driving,HUD will turn off automatically Set the menu 11,change the default value to 01:80 or 03:00