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# PHUD12

## HEAD UP DISPLAY User Manual

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HUD short for Head Up Display. It displays driving data on the front windshield such as speed 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 MAIN FUNCTIONS & FEATURES:

1. Available for any car, easy to install, plug and play
2. Two mode display: reflect on windshield or directly see on the sit up HUD screen
3. 3.5 inch HD display Screen
4. Multi-color design makes the screen more abundant and easier to read
5. Nano-technology to eliminate double reflections, more clear.
6. **Rich Contents:** speed, compass, speed alarm, free switch between km and miles and miles
7. **Auto power on/off:** HUD start and off with vehicle started and shutdown, effective protection of car battery; retaining the manual switch mode, easier to control HUD.
8. Automatic and manual brightness adjustment mode, driving without glare.

## FIRST USE OF HUD

When it is the first time to use, please connect car charger to car cigarette lighter, when fully charged, red satellite icon will flash and start to search the satellite number, when the satellite icon become green color, HUD will start working.

## BUTTON FUNCTION:



- 1: Buzzer icon
- 2: Setting icon
- 3: Driving directions icon: west, north, east, south
- 4: Satellite signal icon - When the light changes from red to green, it proves search satellite successful
- 5: Speed
- 6: Light-sensor
- 7: Speed unit (km/miles)

**Host keys function:**



**Wave Button Function:**



**WHEN THE DIAL ON THE LEFT**

1. Vertical long Press 5 seconds: enter into setting menu(menu 1-6), after finish adjustment, vertical long press 5 seconds to save and exit.
2. Short pull up:Increasing parameter values after enter into the menu setting.
3. Short pull down: Decreasing parameter values after enter into menu setting.
4. Vertical Short press: Increasing menu values after enter into menu setting.
5. Long pull down: turn on or off the alarm sound.

**RESET SETTING:**

Long pull up the wave button, and when all the LED light up, it means HUD finish the restore factory setting

**TURN ON AND OFF THE BUZZER:**

Long pull down the wave button 5 seconds to turn off the buzzer, another 5 seconds to turn on the buzzer.

**HUD SETTINGS:**

Since HUD displays datas receive the satellites from GPS,GPS datas will be a little different with car dashboard datas. At that time, you can enter into menu setting to have a fine adjustment of HUD in order to get the same datas as dashboard.

If you find there is something different with the the dashboard values,please make an adjustment as below:

**ENTER INTO MENU SETTING:**

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

MENU	PARAMETERS	RANGE ADJUSTMENT	EXPLANATION	DEFAULT VALUE	DISPLAY STATE
1	Speed	80-120	<b>Speed error:</b> Up or down the wave button to adjust	107	
2	Over Speed Alarm	10-180	Speed alarm when it reaches 150 MPH, up or down the wave button to adjust the alarm values	150	
3	Brightness Adjustment	0-5	0 for automatic brightness adjustment, 1 is darkest, 2-5 is bright (the greater the number, the stronger the brightness,5 is brightest)	0	
4	Speed Unit	0-1	0 for KM / H 1 for MPH	1	
5	Power on/off voltage	100-150	If HUD cannot automatically turns off, please adjust the voltage to 13.2V-14V	100	
6	Display mode	0-1	0 is reflect on the windshield,1 can directly see from the sit-up HUD screen	0	

## USE AND INSTALLATION FOR REFLECTION FILM:

**Please Note:** HUD projects dashboard information on the car front windscreen, because the windscreen is double, which will make double reflection on the windscreen when it works. The double reflection will be different cause of the different windscreen. If you can clearly see the display information, then there is no need to use the reflection film. If there is a double image, then please use the reflection film. First, please put the non-slip mat on the dashboard, and then put HUD on it. Reflection film can be stick to the position right above the HUD position which can reflect host screen to windscreen.

## METHODS OF PASTING THE FILM:

1. Spray some water on the place that the film will be pasted on, and then use dry cloth to clean it.
2. Take off the back side (marked 1) of reflection film, then paste it to the window glass.
3. After you have adjusted the location, you can use a scratch board or something else flat to slick the film and squeeze the water inside out until there is no bubble or water in it.
4. Take off the protection film (marked 2) of the reflection film. If the film cannot display the whole information, please adjust the non-slip mat to move the position.

## HUD Specifications:

Working voltage	DC8-18V
Working current	40mA
sleeping current	15mA
Compass precision	$\pm 1^\circ$
Speed range	0-400MPH
Satellite positioning time	Cold start: 30s, hot start: 1s
HUD size	90x54x12mm
12V car charger	1000mA
HUD weight	40g

## **SOLUTION FOR COMMON PROBLEMS**

### **1. HUD screen without any display and no power**

Check the car charger cable if it is tight, pull down repeatedly inserted multiple times, check the HUD switch if it powers on. If there's still no display please try another car to test and analyze whether the car cigarette lighter interface is bad, if it is a bad cigarette lighter, please try to connect the cable line to the car battery.

### **2. Inaccurate Speed**

- a. Please check the speed unit first, to see it is KM or MPH
- b. When HUD is power on, vertical press the wave button 5 seconds to enter into the menu options, the menu options shows 0, parameter shows 107, up or down the wave button to increase or decrease the value according to the difference until it shows the correct one. After adjustment, vertical press in 5 seconds to save it.

### **3. HUD see not clearly under the sunlight.**

- a. Check whether the HUD host protective film is torn, and please stick the reflection film on the windscreen.
- b. Check whether stick the reflection film
- c. You can set the brightness by setting menu, refer to menu 3
- d. Change the display mode, refer to menu 6, and adjust the default value to 1, then you can see directly from the sit up HUD screen.

### **4. Wrong operation lead to crashes or inaccurate datas**

Do a reset setting: Long pull up the wave button ,and when all the LED light is up, it means HUD restore factory setting is done.

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