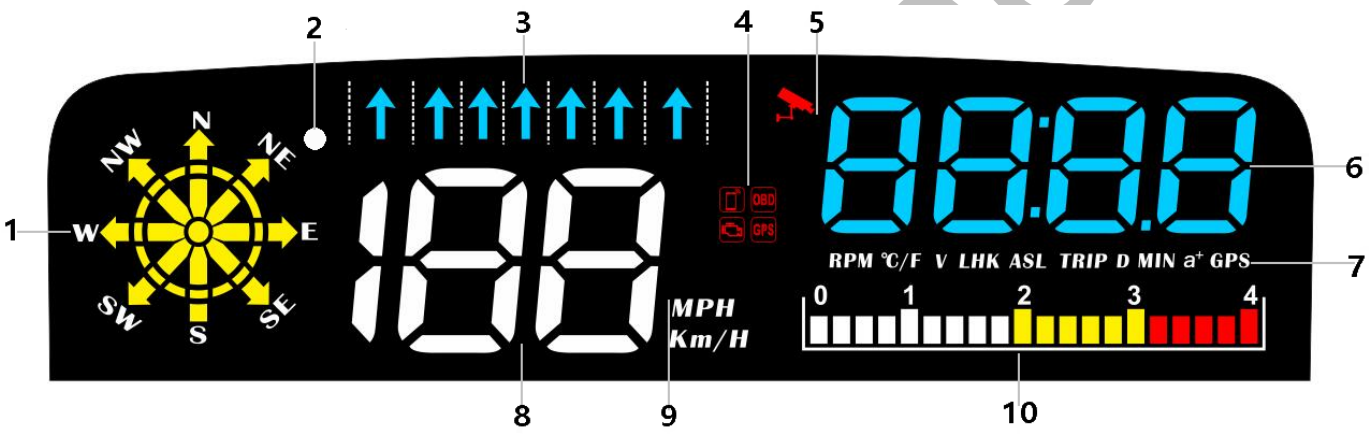
Car Head Up Display D2 (customised version)

OBD2 + GPS

D2 Heads-up display is a dual mode - GPS + OBD2 port based digital speedometer (and much more) projected on the HUD mirror at driver’ s eye level thus ensuring driving safety and pleasure. It lets you keep your eyes on the road without looking down at the car dashboard.

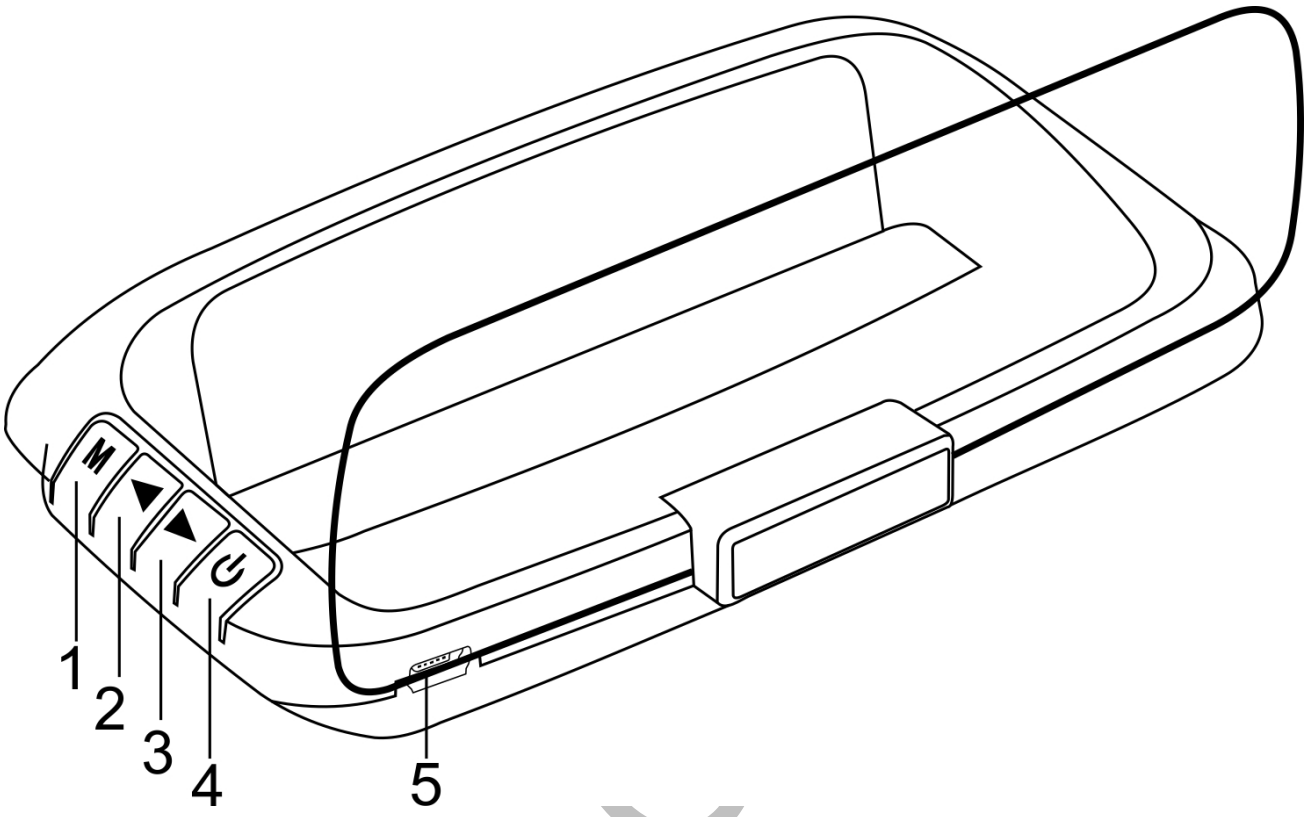
Note: Please switch to GPS system when OBD2 mode is not compatible. OBD2 mode working voltage: 5V~18VDC (12vdc/200mA)

Product features:



1. Compass: Shows the driving direction when the vehicle speed > 5km/h
2. Light sensor: HUD automatically adjusts the brightness according to intensity of the outside light
3. Feature not available in this model.
4. Fault code icon, OBD system, GPS system (GPS icon flashes till the satellite signal has been acquired)
5. Feature not available in this model.
6. Multi-function display: RPM, water temperature, voltage, fuel consumption, altitude, mileage, driving time, power test, satellites number (count), clock
7. **RPM** = rotating speed, **°C/F** = water temperature, **V** = voltage, **LHK** = fuel consumption, **ASL** = altitude, **TRIP** = travel mileage, **D** (Not available in this model), **MIN** = travel time, **a+** = 100km acceleration test, **GPS** = satellites number (GPS system can be used after 5 satellite signals have been acquired)
8. Speed: Display the vehicle driving speed in digital number. In GPS mode, speed is usually displayed when the car speed is > 5km/h
9. Speed unit: KM/H = kilometer/hour, MPH = Mile/hour
10. RPM icon

Button functions：



Short press is 1 second press
Long press is 3 second press, release after the display screen changes

1. Button ‘M’

Short Press

OBD system: Switch multi-function display (RPM / voltage / water temperature / altitude / fuel consumption / driving time / mileage / clock / 100 kilometers acceleration)

GPS system: Switch multi-function display (voltage / altitude / travel time / travel mileage / clock / 100km acceleration / number of satellites)

Long Press

Function 1: To enter the menu settings mode (menu 1-14)

Function 2: To save and exit after finished updating the settings

2. Button ‘<’

Short Press

Function 1: Switch between OBD and GPS mode within 5 seconds when the icon flashes when HUD is powered on.

Function 2: To switch the RPM icon
Function 3: To decrease the parameter value in settings mode

Long Press

Turn on/off the buzzer

3. Button '>'

Short press

Function 1: Switch between OBD and GPS mode within 5 seconds when the icon flashes when HUD is powered on.
Function 2: To increase the parameter value in settings mode

Long press

To clear engine fault codes (hold till all LEDs light up), press again to return to your main page

4. Power switch:

Long press to turn on/off

5. Power port:

Mini-USB power port to power the HUD via OBD cable or cigarette lighter cord.

Start HUD – First time

1. Place the HUD on the dashboard
2. Connect the supplied USB cable to HUD USB port and power it via OBD or Cigarette lighter.
3. Start the car, HUD will power on automatically, short press '<' button within 5 seconds to switch between OBD and GPS mode when the icon flashes. It will automatically enter the last selected system after 5 seconds of inactivity.
4. Once HUD gets the required data (In GPS mode, satellite signal acquisitions and in OBD2 mode, handshake with the vehicle OBD system) it will start displaying the relevant information.

GPS mode – Please move the car to an open road and wait for the GPS icon to stop flashing (we recommend waiting until at least 5 satellite signals have been acquired)

Restore factory setting:

Unplug the power cord, press and hold **'M'** key (don't release it), plug-in the power cord and release the **'M'** after the screen is fully lit.

Setting Menu:

Long press the **'M'** button to enter the setting mode

Menu	Function	Adjust Range	Explanation	Default value	Setting screen
0	Speed	50 - 150	When the speed on the HUD and the car speedometer are different and you want to keep both in sync: Short press '>' or' <' button to increase or decrease the default speed value (or current option value) according to the speed difference. E.g. When the car speedometer displays 100 km/h speed, HUD displays 103km/h speed (i.e. 3km/h more than car speedometer), then decrease the HUD default value from 107 to 104	107	
1	Fuel Consumption	50 - 150	Adjust parameter value when HUD fuel is different than dashboard	100	
2	RPM Alarm	100 - 7500	When RPM over 7500, HUD give the alarm, short press < or > button to adjust	7500	
3	Four-stage speed alarm	0 - 1	0 = turn off the four-stage alarm 1 = turn on the four-stage alarm Will alarm when speed at 60, 80, 100, 120KM/H	0	
4	Over-speed Alarm (Single-stage Speed alarm)	30 - 199	The default over speed alarm is 150 KM/H	150	

5	Brightness Level	0 - 5	0 = automatic adjustment, 1-5 = Brightness level (Manual)	0	
6	Water Temperature Alarm	50 - 150	HUD will give alarm when water temperature reaches 120°C, the default value can be changed using > or < button	120	
7	Voltage Alarm	0 - 15.0	HUD will give alarm when voltage is less than 10V, , the default value can be changed using > or < button	10.0	
8	Fatigue Driving Reminder	1.0 - 8.0	HUD will give fatigue driving alarm every 4 hours	4.0	
9	Speed Unit	1 - 2	1 = KM/H 2 = MPH	1	
10	Temperature Unit	1 - 2	1= Celsius 2= Fahrenheit	1	
11	Shutdown Voltage	0 - 15.0	This is the auto power on and off voltage for the HUD. If HUD cannot power off automatically, change it to 13.2. If it still doesn't turn off, increase the voltage gradually (13.3 or 13.4..) and try again. Please don't set it higher than battery voltage. Simultaneously, if HUD turns off/restarts when driving/starting, reduce the voltage gradually (e.g. 12.8) - cause HUD voltage is higher than working voltage. It needs to be same or lower than working voltage.	0	

			For hybrid vehicles and automatic start-stop vehicles, set it to 1 and delay the shutdown time (menu 12) to 180 seconds.		
12	Shutdown Time	5 - 300	The default HUD shutdown time is 20 seconds after the car is turned off. For hybrid or start-stop system, delay the shutdown time to 180 seconds.	20	
13	Time Calibration	00:00 - 23:00	Increase or decrease the default time zone time	displays 8 before the satellite signal is acquired, and displays the GMT + 8 (China time)	
14	Factory Reset	0 - 1	Set the parameter to 1 and long press 'M' button for 5 seconds to save your settings.	0	

Warning

If you don't drive your car for extended period (e.g. more than a week) it is highly recommended to disconnect the HUD connection (either unplug the HUD USB port connection or Car ODB connection plug). OBD devices generally consume ~20 mAh standby current which may drain the battery if the vehicle doesn't cut off the OBD2 power or the HUD doesn't auto shutoff. It is recommended to disconnect the HUD connection.

OBD2 Troubleshooting:

1. HUD screen has no display/power

Check that the cable is plugged in securely to the HUD and to the car OBD port. If there is still no display/power, please test the unit in another car.

2. HUD powers on, shows car voltage and then powers off after 30 seconds.

- HUD is designed to work with OBD2 and EU-OBD (European region: after 2003 years, Other region: after 2007 years) HUD doesn't support JOBD and OBDI protocol.

- Switch to the GPS system - power off and then power on the device, within 5 seconds while the GPS/OBD icon is flashing, short press the **'<'** button to select the GPS system.

3. Wrong operation may lead to crashes

- Restore to factory settings.
- Modified cars (such as but not limited to changes in central control navigation, electronic throttle controller, speed cruise, One-click start-up, keyless entry, remote startup etc.) may cause a crash, unplug other OBD devices.
- Switch to the GPS system - power off and then power on the device, within 5 seconds while the GPS/OBD icon is flashing, short press the **'<'** button to select the GPS system.

4. Speed difference between Car Speedometer and HUD speed

(1) First check that the speed unit is correct (KM/H and MPH)

(2) Enter settings menu (0), short press < or > button to increase or decrease the default speed value (or current option value) according to the speed difference. E.g. When the car speedometer displays 100 km/h speed, HUD displays 103km/h speed (i.e. 3km/h more than car speedometer), then decrease the HUD default value from 107 to 104.

5. Automatic start and stop and hybrid vehicles, HUD shut down after braking

- Long press and hold the 'M' to enter the menu setting. Short press 'M' button and change the menu option to 11, change the value from 0 to 1. Long press and hold the 'M' to save and exit.
- Delay the shutdown time to 300 seconds (menu 12).

6. HUD does not auto power off

Enter settings menu (11). Change the voltage from 0 to 13.2. Once the voltage value is updated, long press 'M' button for 5 seconds to save and exit. If it still doesn't turn off increase the voltage gradually (13.3 13.4..) and try again. Please don't set it higher than battery voltage then the HUD will not power on. HUD will turn off in 180 seconds.

7. HUD automatically restarts/power off

Follow the instructions provided above in Menu 11.

8. Inaccurate Time

Default time zone is China time GMT+8, it can be changed to Australia time zone in settings menu 13.

GPS – Now showing the speed or the speed is stuck

- Device shows the speed only after enough satellite signals have been acquired. Please wait for the GPS icon flashing to stop and minimum 5 satellites have been acquired. Please move

the car to an open road so there wouldn't be any interruptions in acquiring the signal.

- Another reason could be the low power supply to HUD (< 5V), please connect to different power supply or use the OBD cable to power the device

Check no of satellites

In Multi-function display area, satellite count is shown. Short press M to navigate to this display.