

# Easy HUD

Multifunction  
HUD

User Manual





<b>Table of Content</b> .....	<b>01</b>	<b>2.3 Sticking the Reflective-Film.</b> .....	<b>11</b>
<b>1.1 Introduction of Product Safety.</b> .....	<b>02</b>	<b>2.4 Sticking the VELCRO Tape.</b> .....	<b>13</b>
<b>1.2 How It Works.</b> .....	<b>03</b>	<b>2.5 Troubleshooting for installation</b> .....	<b>14</b>
<b>1.3 Heads-Up Display (HUD) Technology.</b> .....	<b>04</b>	<b>3.1 HUD - Function and Setting.</b> .....	<b>15</b>
<b>1.4 Package Content.</b> .....	<b>05</b>	<b>3.2 HUD - Operation of Function.</b> .....	<b>16</b>
<b>1.5 HUD Unit Layout.</b> .....	<b>06</b>	<b>3.3 HUD - Warnings and Icons.</b> .....	<b>20</b>
<b>2.1 HUD Unit and OBD-II Connection.</b> .....	<b>07</b>	<b>3.4 Revolution Per Minute(RPM) indicator.</b> .....	<b>21</b>
<b>2.2 HUD Unit Auto-power ON/OFF.</b> .....	<b>10</b>	<b>4.1 Product Specification.</b> .....	<b>22</b>

## 1.1 Introduction of Product Safety



### Multifunction HUD 10 in 1 features

- Heads-Up Display(HUD).
- OBD-II interface connection.
- Speed real time display.
- Speeding warning setup and alarm.
- Fuel Economy real time display.
- RPM real time display.
- Coolant temperature monitoring.
- Engine over heated warning alarm.
- Vehicles battery voltage monitor.
- Boost real time display.

### HUD functions Monitor shows on vehicle windshield

OBD-II interface collecting data's from vehicle ECU's :

- Vehicle speed (KPH).
- Engine RPM.
- Coolant temperature.
- Boost.
- Vehicles battery voltage.
- Fuel economy indicator.



## 1.3 Heads-Up Display (HUD) Technology



HUD(Heads-Up Display) Technology firstly developed for military and commercial aviation to help pilot being able to view real time data on the windshield or helmet without looking down the lower side instrument.

Show information by fundamental optical on vehicle windshield and get more safety.



## 1.4 Package Content

<b>Descriptions</b>	<b>Q'ty (Pcs)</b>
<b>HUD (Heads-Up Display) Unit</b>	<b>1</b>
<b>OBD-II cable</b>	<b>1</b>
<b>HUD reflective film</b>	<b>1</b>
<b>HUD fitting accessories(velcro)</b>	<b>2</b>
<b>User Manual</b>	<b>1</b>
<b>Warranty Card</b>	<b>1</b>

## 1.5 HUD Unit Layout

**HUD display automatic illumination sensor**  
**USB port (to OBD-II)**

**Heads-Up Display**



**Setting Button**

**Function Button**



## 2.1 HUD Unit Installation and OBD-II Connection

### Step 1 : Find the vehicle OBD-II socket

It is usually located at driver side, under steering wheel. (Figure 1)

### Step 2 : Connect HUD unit to OBD-II socket.

- (1) Make sure ignition switch is "OFF".
- (2) Take out OBD-II cable. (Figure 2)
- (3) Plug the OBD-II adapter into OBD-II socket. (Figure 3)



Figure1



Figure2



Figure3

## 2.1 HUD Unit Installation and OBD-II Connection

### Step 2 : Connect HUD unit to OBD-II socket.

(4) Fix wire in adapter rib. (Figure 4)

(5) Plug the "L" type USB connector to HUD unit, then make sure connection is tight. (Figure 5~Figure 6)



Figure4



Figure5



Figure6

## 2.1 HUD Unit Installation and OBD-II Connection

### Step 3 : Check HUD communication

In this stage to make sure the HUD unit and vehicle ECU OBD-II communication protocol is matched and working properly.

- (1) Start engine (Figure 7) and press SETTING button to switch-on the HUD unit.
- (2) Press FUNCTION button, the HUD will display real RPM value if communication is successful.(Figure8)



Figure7



Figure8

### Remarks :

If HUD unit shown RPM "0" value, which means the communication failed. Repeat Step 1 to 3 again. If the problem persist, which means the product does not apply to that vehicle model. Please contact with your dealer.

## 2.2 HUD Unit / Auto-power ON/OFF

### Step 4 : Check HUD auto-power ON/OFF

In this stage to make sure the HUD unit can auto-power ON/OFF.

- (1) When HUD unit displaying “OFF” after switch-off key, that means auto-power OFF function workable. (Figure 9)
- (2) Start engine again then check if HUD boot within 15 seconds (boot timing depends on vehicle ECU protocol). (Figure 10)
- (3) Press FUNCTION button then return RPM mode.



Figure9



Figure10

### Step 5 : Sticking the reflective film

- (1) Clean the windshield reflective area. (Figure 11)
- (2) Take off the release film. (Figure 12)
- (3) Spray soap water both on windshield and reflective film. (Figure 13)

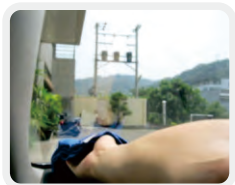


Figure11



Figure12



Figure13

## 2.3 Sticking the Reflective-Film

### Step 5 : Sticking the reflective film

(4) Stick the reflective film on windshield and align it properly. (Figure 14)

(5) Scratch out air and water between reflective film and glass windshield than clean. (Figure 15)

(6) Wait until reflective film dry. (Figure 16)



Figure14



Figure15



Figure16

### Step 6 : Sticking the velcro tape

- (1) Stick the velcro tape on bottom side of HUD. (Figure 17)
- (2) Tear-off the release film. (Figure 18)
- (3) Stick the velcro tape on properly dashboard area.
- (4) Place the HUD unit. (Figure 19)

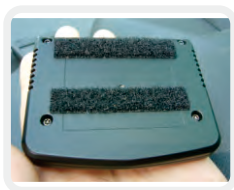


Figure17



Figure18



Figure19

## 2.5 Troubleshooting for installation

### **FAQ : Communication fail ?**

Answer:

- 1.Remove OBD-II connector and switch vehicle.
- 2.Info the vehicle make, model, year, displacement, gasoline or diesel to dealer.

### **Note :**

- 1.Multi-Function HUD applies with ISO 15765(CAN),ISO 9141-2, ISO 14230(KWP2000)
- 2.Please contact dealer for help if any question.

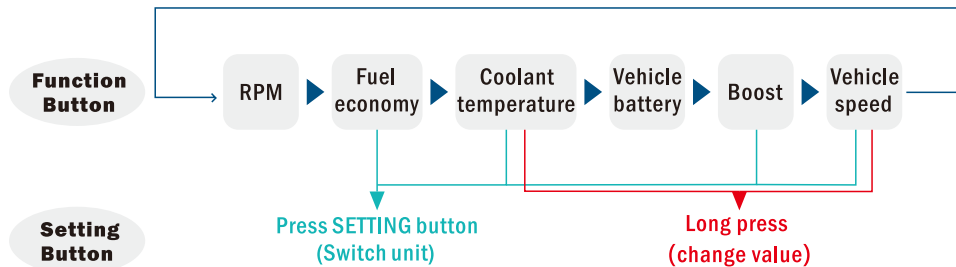


### **FUNCTION Button :**

Switch function in sequence.

### **SETTING Button :**

Press FUNCTION button into any functions(exclusive RPM and Vehicle Battery function), and then press SETTING button that can be switched unit. Long press SETTING button that you can change value if HUD is speed or Engine temperature function and back to next function.



## 3.2 HUD - Operation of function

### Function button-No press

RPM of engine real time display.

Example : RPM is 3000/min



### Function button-Press once

Fuel economy KPL (Kilometers Per Liter) real time display.

Example : 17KPL



### Switch unit-Press SETTING button

Fuel economy MPG (Miles Per Gallon) real time display.

Example : 34MPG



**Notice :** 1. The function is only for driving.  
2. Some vehicle is probably to support this function.

### Function button-Press two times

Coolant temperature display °C.

Example : 90 °C

### Change Setting-Long press SETTING button for 5 seconds

Press SETTING button adjusts upper temperature when the digit is blinking and increase 10°C per pressing, temperature range is 90-130°C.



### Switch Unit-Press SETTING button

Temperature unit is °F.

Example : 194 °F

### Change Setting-Long press SETTING button for 5 seconds

Press SETTING button adjusts upper temperature when the digit is blinking and increase 24°F per pressing, temperature range is 194-266°F °.



## 3.2 HUD - Operation of function

### Function button - Press three times

Vehicle battery (V) display.



### Function button - Press four times

Boost BAR display.



### Switch Unit - Press SETTING BUTTON

Boost inHg (Inch mercury)/  
PSI (Pound/Square Inch).

Positive unit PSI

Negative unit inHg



**PS :** It does not support OBD-II if the HUD is shown "----" ◦

### Function Unit-Press five times

Speed KM/H display.

Example : 90KM/H

### Change Setting-Long press SETTING button for 5 seconds

Press SETTING button adjusts speed limitation when the digit blinking and increase 10KM/H per pressing, speed range is 60-300KM/H.

### Switch Unit-Press SETTING button

Speed is MPH.

Example : 60 MPH

### Change Setting-Long press SETTING button for 5 seconds

Press SETTING button adjusts speed limitation when the digit blinking and increase 6MPH per pressing, speed range is 40-184MPH.



### 3.3 HUD - Warnings and Icons



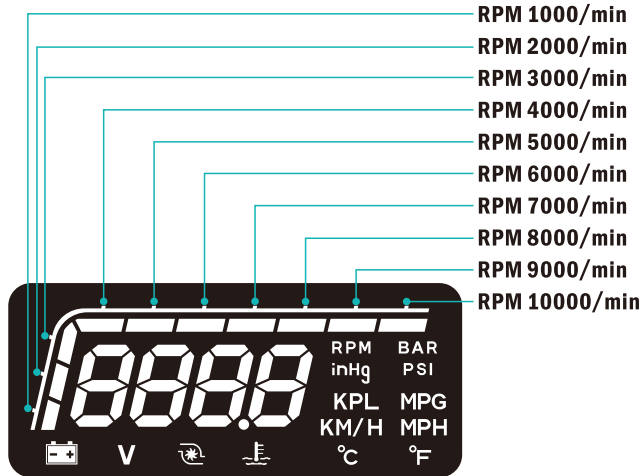
If the value from ECU was more than what your setting, it will alarm(as below icon) and three beep sounds sequentially per 5 seconds. on the other hand, it is always blinking and beep about exceeding vehicle speed, when vehicle speed is less than what your setting and all clear.

**Notice :**

1. The product applies with ISO 15765(CAN),ISO 9141-2, ISO 14230(KWP2000), If the product does not apply to this protocol, please contact with your dealer.
2. Please press SETTING button that it can reconnect if parking was more than five days.

**PS. Default setting of alarm - Vehicle : 110 KM/H / 70MPH · RPM : 6000RPM ·  
Coolant temperature : 100 °C / 212 °F · Vehicle battery : 11.5 V · Boost : 1.5 BAR / 22PSI**

### 3.4 Revolution Per Minute(RPM) indicator



## 4.1 Product specification

<b>Heads-Up Display(HUD)</b>	
Operating voltage(Volt)	9 ~ 16V
Operating current(mA)	50 ~ 350mA
Operating temperature(°C)	-40 ~ 85°C
Static current(mA)	8mA

### **Disclaimer**

The information provided in this user manual doesn't mean all inclusive. All user have to observe and comply to the vehicle manufacturer or tire manufacturer specification and all available safety regulation.

*This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)This device may not cause harmful interference, and(2) this device must accept any interference received, including interference that may cause undesired operation.*









