Dear Customer,

Thank you very much for purchasing this head-up display. Connect the display to your vehicle's OSB2 port. The journey data is now being projected onto the projection surface in your desired field of view. This way you can keep an eye on everything important while driving.
Please read these operating instructions and follow the listed instructions and tips to ensure you can make the best use of your new head-up display.

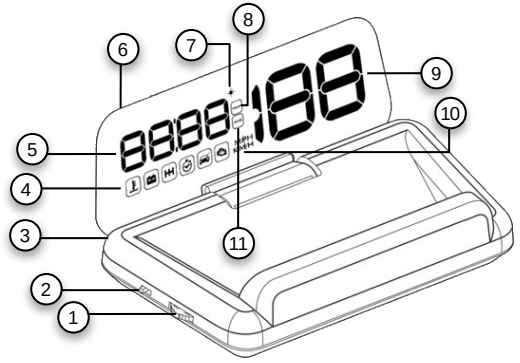
Scope of delivery

- Head-up Display HUD-100.obd
- OBD connection cable
- Non-slip mat
- Cleaning cloth
- User manual

Technical data

power supply	12 V DC, 200 mA
OBD2 interface	Petrol engine from model year 2001
	Diesel engine from model year 2004
Trip data	Speed (km/h / mph)
	Route
	speed
	Water temperature
	Battery voltage
	Fuel consumption
	time
Display combinations	8
Projection surface	Fold-out
	12.5 x 30.9 cm
Virtual projection distance	55 mm
Side view	60°
bottom view	15°
Ambient temperature	-40 to 80°C
air pressure	86-106 kPa
humidity	10-95 %
ambient noise	≤ 60 dB
Mass	136 x 29 X 75 mm
Weight	169 g

Product details



1. Selection wheel
2. On/Off switch
3. Mini-USB input
4. Display icons
5. Data display
6. Flip-up display
7. Light sensor
8. TRIP display
9. Speedometer
10. Unit of speed
11. AVG ad

commissioning

Assembly

A notice:
Observe the safety instructions and requirements prescribed by the vehicle manufacturer and the automotive trade. If you are not familiar with automotive electrical systems, we recommend having the installation carried out by a specialist workshop or an authorized workshop of your vehicle manufacturer.

DANGER!

Install this item according to the provided installation instructions.

Do not make any modifications to the wiring of your vehicle.

If you are unable to perform the installation yourself, then hire a specialist workshop.

1. Find out where your vehicle's OBD2 port is located. The OBD2 port is usually located in the lower part of the dashboard. Refer to your vehicle's owner's manual for assistance.

A NOTICE:

If you cannot locate the OBD2 port, contacting your manufacturer's service department may help. Otherwise, please visit your car repair shop.

DANGER!

On some vehicle types, the service flap cannot be closed when the plug is connected. In this case, the service flap must be pulled off/removed! An open service hatch poses a risk while driving.

2. Place your display on the non-slip mat in the desired location. The projection should not be directly in your line of sight to the street. Position the display as low and to the left as possible. The unfolded display points towards the windshield.

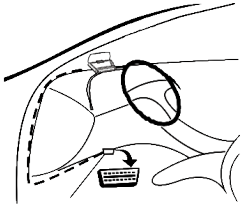
DANGER!

Make sure that neither the display nor the projection obstructs your field of vision or otherwise irritates you.

3. Connect the OBD connection cable to the mini-USB input of your display. Route the cable in such a way that it does not obstruct you or restrict your field of vision while driving. Ideally, place it below the dashboard.

DANGER!

The device and wiring must not obstruct the driver's clear view of the road. They must not be placed on airbag covers or within the opening area of airbags.



© REV2 – September 21, 2022 –

use

> ***Danger!***
> ***Only operate the device when the vehicle is completely stationary. It must not be operated while driving!***

Turn on

1. Open the display.
2. Turn the ignition key.
3. Slide the on/off switch towards the display. The display lights up. After a few seconds, you can select the desired display (see section Changing Displays).

turn off

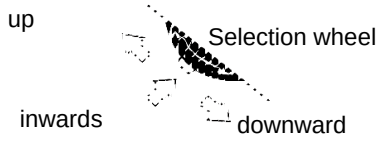
1. Slide the on/off switch down.
2. Turn off your vehicle.

A NOTICE:

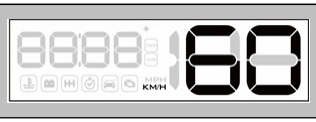
If you are not going to use your vehicle for an extended period of time, be sure to switch off your head-up display using the on/off switch.

Switch display indicators

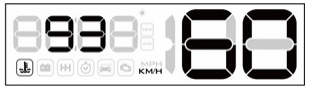
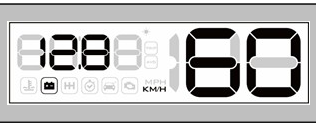
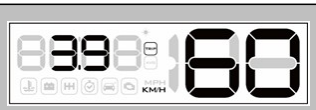
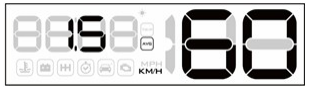
You have 8 display options available. These can be adjusted using the selection wheel.



- Push the selection wheel upwards if you only want to display the speed. Press the selection wheel upwards again to exit the pure speed display and see a combination display on the screen.

speed	

- Press the selection wheel inwards to switch to the next combination display screen.

Combination display indicators	
speed	
rpm	
speed	
time	
speed	
Water temperature	
speed	
Battery voltage	
speed	
Travel time	
speed	
Route	
speed	
Fuel consumption	

Set time

1. Access the time display.
2. Keep the selection wheel pressed upwards.
3. The minute display is flashing. Press the selection wheel up or down to set the minutes.
4. Push the selection wheel inwards. The hour display is flashing. Press the selection wheel up or down to set the hours.
5. Save the settings and exit the menu by pressing the selection wheel inwards for 5 seconds.



Turn alarm tone on/off

Turn the alarm tone on or off by pressing and holding the selection wheel down for 5 seconds.

Parameter settings

You have 14 different settings menu items available.

1. Turn on your display.
2. Access the settings menu by pressing and holding the selection wheel inwards. The display now shows parameters (left) and menu number (right). Settings are adjusted via the selection wheel:
   - **Next menu item: press inwards**
   - **Increase parameters: press up**
   - **Decrease parameters: press down**
3. Save the desired setting and exit the settings menu by pressing and holding the selection wheel inwards.

0	speed	Should the Speedometer from Display and Speedometer deviate Place She the Difference value in % a (50-150) 
1	RPM	Should the rpm If the RPM reading on the display and the vehicle display differ, set the difference value in % (50-150). 
2	Fuel consumption	Should The Fuel gauge From Display and Vehicle display deviate place she the Difference value In Spray mist attachment A (50-150)

© REV2 – September 21, 2022 –



3	RPM alarm	Set the alarm value for RPM. If the set value is exceeded, an alarm tone will sound, provided this is switched on.



4	Gear shift reminder	Set the RPM value at which you will be reminded to change gears. If the set value is exceeded, the following symbol flashes on the display:  Additionally, the alarm tone will sound if it is switched on.



5	4-stage speed alarm	Turn the 4-level speed alarm on (1) or off (0). If the alarm is activated, the km/ h or will flash each time the following speeds are exceeded. mph ad: 60 / 80 / 100 / 120. Additionally, the alarm tone will sound if it is switched on.



6	Speed alarm	Set the speed at which an alarm will be triggered if exceeded (30-199). The km/ h- or The mph display flashes and the alarm tone sounds, if it is switched on.



7	Display mode	Configure when which information should be displayed on the screen: **0 = below 80 km/h everything is displayed, above 80 km/h only the speed is displayed.** **1 = everything is always displayed** **2 = only the speed is displayed**



8	Display brightness	Set the desired brightness level. **0 = automatic adjustment via the light sensor**



9	Unit of speed	Set which speed unit should be used: **0 = km/h** **1 = mph**



10	Water temperature	Set your preferred display format for the water temperature: **0 = automatic** **1 = in °C** **2 = in °F**



11	Route unit	Set the desired unit of measurement for the distance traveled: **0 = in km** **1 = in miles**



12	Starting voltage	Set the desired starting voltage. If the measured voltage is below this value, the display switches off automatically after 3 minutes (0.0-15.0).



13	Factory settings	Restore factory settings by selecting 1 and then holding the selection wheel up for 5 seconds.



© REV2 – September 21, 2022 –

A NOTICE:

Please note that the consumption value may need to be adjusted for your vehicle, e.g. from 100 to 50, then possibly Adjust in smaller steps until it fits. For all other values, no adjustment is usually necessary.

A NOTICE:

Please note that displays from the on-board computer and OBD interface possibly This may occur with a slight time delay, as this varies depending on the vehicle manufacturer. Other sensors can be read.

Problem solutions

The display remains dark despite the ignition being switched on.

- Slide the on/off switch towards the display.
- Check the connections of the OBD connector cable.
- Test the display in another vehicle to identify the source of the fault. If the display remains dark in another vehicle, it is defective.

The display only shows the battery voltage and turns off after 60 seconds.

- The display uses an incompatible OBD connector (e.g. JOBD, OBD1) connected. The display is only suitable for use in vehicles with an OBD2 port.

The display is difficult to read in sunlight.

- Park your vehicle. Access the settings menu and adjust the display brightness level (Menu 8).

The display reacts incorrectly, stutters, or displays incorrect data.

- Park your vehicle. Access the settings menu and restore the factory settings (Menu 13, Parameter 1).

Inaccurate speed display

- Park your vehicle. Access the settings menu and ensure that the correct speed unit is set (Menu 9).
- If necessary, adjust the difference value (Menu 0).

Inaccurate RPM display

- Park your vehicle. Access the settings menu and set the difference value (Menu 1).

Inaccurate fuel consumption display

- Fuel consumption is displayed in l/100 km. The display shows the individual consumption, while vehicles show the average consumption.
- Adjust the fuel consumption parameter if necessary. Park your vehicle here. Access the settings menu and set the difference value (Menu 2).

Safety instructions

- This user manual is designed to familiarize you with how this product works. Therefore, keep these instructions in a safe place so that you can refer to them at any time.
- Observe the safety instructions and requirements prescribed by the vehicle manufacturer and the automotive trade. If you are not familiar with automotive electrical systems, we recommend having the installation carried out by a specialist workshop or an authorized workshop of your vehicle manufacturer.
- Speed display and other values are for informational purposes only. The head-up display is only as accurate as the sensors in your vehicle and the calibration of the device. It does not replace the control provided by the original speedometer.
- Modifying or altering the product will compromise product safety. Caution: Risk of injury!
- All modifications and repairs to the device or accessories may only be carried out by the manufacturer or by persons expressly authorized by the manufacturer.
- Never open the product on your own. Never attempt repairs yourself!
- Handle the product carefully. It can be damaged by bumps, blows, or falls from even a low height.
- Keep the product away from moisture and extreme heat.
- Never immerse the product in water or other liquids.
- Technical specifications subject to change without notice. Errors and omissions excepted.

Important disposal information

This electrical appliance does not belong in household waste. For proper disposal, please contact the public collection points in your community.
Details regarding the location of such a collection point and any possibly Please refer to the information provided by the respective municipality for any existing quantity restrictions per day/month/year.

Declaration of Conformity

PEARL Inc. hereby declares that the product PX-1818-675 is in compliance with the RoHS Directive 2011/65/EU and the EMC Directive 2014/30/EU.

Quality Management, Dipl. Ing. (FH) Andreas Kurtasz

The full declaration of conformity can be found at www.pearl.de/support. Enter the item number PX-1818 in the search field there.

Information and answers to frequently asked questions (FAQs) about many of our products, as well as necessary Updated manuals can be found on the website:
www.lescars.de
Enter the item number or item name in the search field there.

© REV2 – September 21, 2022 –