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› Heads Up Display Digital Speedometer, ACECAR Upgrade OBD2+GPS Mode Car HUD, with Tachometer Troubleshooting Read ECU Data Display Improvement Warning Function, for All Vehicles

ACECAR APX

ACECAR APX Heads Up Display Digital Speedometer User Manual

Model: APX

1. INTRODUCTION

The ACECAR APX Heads Up Display (HUD) Digital Speedometer is an advanced automotive accessory designed to enhance driving safety and convenience by projecting vital vehicle information directly into the driver's line of sight. This device features a dual-mode system, supporting both OBD2 and GPS connectivity, ensuring compatibility with a wide range of vehicles.

The OBD2 mode is primarily for vehicles manufactured after 2008 and provides comprehensive data directly from the vehicle's ECU. For vehicles not compatible with OBD2, or for universal use, the GPS mode offers accurate speed and other GPS-derived data. The APX HUD also includes advanced features such as a tachometer with an analog display, fault code clearing, and multiple alarm functions for critical vehicle parameters.



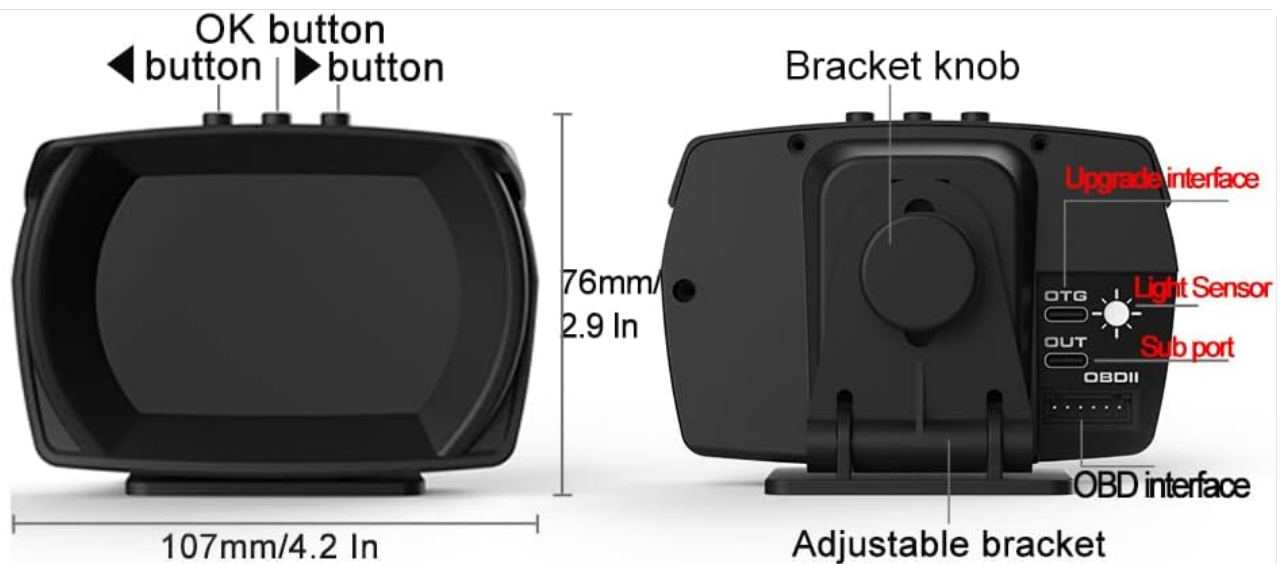
Figure 1: The ACECAR APX Heads Up Display Digital Speedometer, showcasing its clear digital and analog display for speed and RPM.

2. SETUP AND INSTALLATION

The ACECAR APX HUD is designed for straightforward installation, offering a plug-and-play experience. It can be placed on the dashboard or affixed to the windshield using the adjustable bracket provided.

2.1 Package Contents

- ACECAR APX HUD Unit
- OBD Cable
- Adjustable Bracket
- Crowbar (for hiding OBD cable)
- Hexagon Wrench
- User Manual (this document)
- Sticker



Upgraded HUD



Crowbar
Hiding the OBD cable in the A-pillar



OBD cable

OBD2+GPS+Slope Meter Smart Gauge

INTENDED USE

The OBD2+GPS+Slope Meter Smart Gauge is intended for:

- Display vehicle data such as speed, engine RPM, battery voltage, fuel consumption, coolant temperature, turbo, oil temperature etc.
- Warnings related to exceeding the programmable speeds or RPM.
- Clear fault code
- It has 3 mode: OBD2 mode, GPS mode and Slope Meter mode

PLEASE NOTE

The default display OBD2+GPS mode at the same time, if your car doesn't have OBD2 protocol, pls switch to GPS mode, then it will only show GPS function.



Hexagon Wrench



Sticker

User Manual

▲ OBDII only be available for vehicles produced after 2008.
GPS MODEL Perfect Suitable for All Vehicle.

※ If only voltage is displayed after turning on the power, the car is not compatible with the OBD mode of this HUD, please switch to GPS mode.

Figure 2: Overview of the ACECAR APX HUD unit, its dimensions, and included accessories for installation.

2.2 Installation Steps

1. **Placement:** Choose a suitable location on your dashboard or windshield that does not obstruct your view of the road.
2. **Mounting:** Attach the adjustable bracket to the HUD unit and secure it in your chosen location.
3. **Connection (OBD2 Mode):** Locate your vehicle's OBD2 port (typically under the dashboard on the driver's side). Connect the provided OBD cable to the HUD unit and then to the vehicle's OBD2 port.
4. **Cable Management:** Use the crowbar to carefully tuck and hide the OBD cable along the vehicle's interior trim, such as the A-pillar, for a neat and secure installation.
5. **Power On:** Once connected, the HUD unit should power on automatically when the vehicle's ignition is turned on.

Important Note:

- OBD2 mode is compatible with vehicles produced after 2008.
- If the speedometer displays only voltage after powering on, it indicates that your car is not compatible with OBD mode. In this case, please switch the device to GPS mode.
- OBDII mode is not compatible with hybrid electric vehicles, diesel cars, pickup trucks, RVs, or computer-modified cars.

3. OPERATING INSTRUCTIONS

The ACECAR APX HUD offers a variety of display interfaces and functions to provide comprehensive vehicle data. The unit is operated via buttons located on the device.

3.1 Display Interfaces and Data Points

The device supports multiple display interfaces, allowing you to customize the information presented. You can switch between these interfaces freely to suit your preferences.




Upgraded
version

Speed

RPM

Clock

Water Temperature

Oil Temperature

Voltage

Fuel Level

Driving Distance

Driving Time

Driving Direction

Engine Load

Alarm

Acceleration Test

Turbine Pressure

Intake Pressure

Air-fuel Ratio

Intake Air Temperature

Latitude and Longitude

Roll Angle

Pitch Angle

APX Increased Functions

Generator Load

Oil Pressure

Week

Outside Temperature

Gear Temperature

Exhaust Temperature

Fuel Rail Pressure

Hybrid Car Battery Power

Based on customer feedback and market demand,
we have developed an upgraded version of APX.

Figure 3: The ACECAR APX HUD can display a wide array of data including speed, RPM, clock, water temperature, oil temperature, voltage, fuel level, driving distance, driving time, driving direction, engine load, alarm status, acceleration test, turbine pressure,

outside temperature, gear temperature, exhaust temperature, fuel rail pressure, and hybrid car battery power.



Figure 4: Examples of 10 different display interfaces available on the ACECAR APX HUD, featuring multi-color fonts for clear readability.

3.2 G-Sensor Slope Meter

The APX HUD is equipped with a G-Sensor Slope Meter, which can measure angles of up to ± 40 degrees. This feature is particularly useful for driving on rough or uneven terrain, providing real-time feedback on the vehicle's tilt and roll angles.

G - Sensor Slope Meter

- Angles of ± 40 degrees are measurable!
- Great for driving on rough roads!
- Equipped with G-sensor!

RIGHT
TURN



LEFT
TILT



RIGHT
TILT



UPHILL



DOWNHILL



Figure 5: The G-Sensor Slope Meter display, showing real-time left/right tilt, uphill, and downhill angles, beneficial for off-road driving.



Figure 6: Detailed view of the MEMS Slope Meter, illustrating its ability to measure tilt angles for various driving conditions.

3.3 Official Product Video

Your browser does not support the video tag.

Video 1: An official product video demonstrating the various display interfaces and features of the ACECAR APX Heads Up Display.

4. MAINTENANCE

To ensure the longevity and optimal performance of your ACECAR APX HUD, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the display screen and the unit's exterior. Avoid abrasive cleaners or solvents that could damage the surface.
- **Temperature:** Do not expose the unit to extreme temperatures (very hot or very cold) for extended periods, as this can affect its electronic components.
- **Moisture:** Keep the unit dry. Avoid contact with water or other liquids.
- **Storage:** If storing the unit for an extended period, disconnect it from the vehicle and store it in a cool, dry place.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your ACECAR APX HUD.

5.1 Common Issues and Solutions

Problem	Possible Cause	Solution
Display shows only voltage after power on.	Vehicle is not OBD2 compatible (e.g., pre-2008, hybrid, diesel, modified ECU).	Switch the HUD to GPS mode. Refer to the device's settings for mode selection.
Engine warning light is on.	Vehicle has a diagnostic trouble code (DTC).	The APX HUD can clear fault codes. Navigate to the fault code clearing function in the device menu and follow the on-screen instructions.
No display or intermittent power.	Loose connection or power issue.	Ensure the OBD cable is securely connected to both the HUD unit and the vehicle's OBD2 port. Check vehicle's power supply.

Problem	Possible Cause	Solution
Inaccurate speed reading (GPS mode).	Poor GPS signal.	Ensure the unit has a clear view of the sky. Relocate the unit if necessary to improve signal reception.

5.2 Alarm Functions

The APX HUD features multiple alarm functions to alert you to critical vehicle conditions, enhancing driving safety.

safer for driving



The area from 0 to the number of the indicator will change color, and it is easy to see the data of the car you are driving even when driving.



Alarm



Speed Alarm



RPM Alarm



Water Temperature Alarm



Low Voltage Alarm



Fatigue Driving Alarm



Exhaust Temperature Alarm



Oil Temperature Alarm



Oil Pressure Alarm



Fuel Pressure Alarm

Figure 7: The alarm display on the HUD, indicating various alerts such as speed alarm, RPM alarm, water temperature alarm, low voltage alarm, fatigue driving alarm, exhaust temperature alarm, oil temperature alarm, oil pressure alarm, and fuel pressure alarm.



Figure 8: A comprehensive list of alarm functions supported by the ACECAR APX HUD, including speed, RPM, water temperature, voltage, turbo, exhaust temperature, oil temperature, oil pressure, and fuel pressure.

6. SPECIFICATIONS

Key technical specifications for the ACECAR APX Heads Up Display Digital Speedometer:

Specification	Value
Brand	ACECAR
Model	APX
Material	Plastic
Item Dimensions (L x W x H)	3.9 x 2.7 x 1.9 inches
Item Weight	10.5 Ounces
Screen Size	3 Inches
Connectivity	OBD2 + GPS Dual Mode
Manufacturer Part Number	ACECAR-001

7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or contact ACECAR customer service directly. Keep your purchase receipt as proof of purchase for warranty claims. For further assistance, you may visit the official ACECAR store on Amazon:[ACECAR Store](#).

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question