AMROOLOO P10

AMROOLOO P10 Car HUD Digital Speedometer

USER MANUAL

Model: P10 | Brand: AMROOLOO

Introduction

The AMROOLOO P10 Car HUD Digital Speedometer is an advanced automotive display designed to enhance your driving experience by providing real-time vehicle data directly in your line of sight. This device utilizes a high-refresh OBD chip to display crucial information such as speed, RPM, water temperature, voltage, and more, directly on its 5.6 cm TFT LCD screen. Its automatic light-sensitive function ensures optimal display brightness for both day and night driving conditions. The P10 is designed for easy plug-and-play installation, making it a convenient tool for monitoring your car's performance and ensuring safer journeys.

Figure 1: A front-side view of the AMROOLOO P10 Car HUD Digital Speedometer, showcasing its compact design and clear display.

Setup

Package Contents

Before installation, please verify that all components are present in the product box:

- AMROOLOO P10 Car HUD Unit
- OBD Cable
- Anti-slip Mat
- Multi-language User Manual

Product Accessories.

1. Machine
2. Anti-slip Mat
3. Manual
4. OBD Cable

Figure 2: A layout of the AMROOLOO P10 product accessories, including the main unit, anti-slip mat, manual, and OBD cable, showing all items included in the box.

Installation Guide

The AMROOLOO P10 is designed for simple Plug and Play installation. Follow these steps:

1. Locate your vehicle's OBD-II port. This is typically found under the dashboard on the driver's side.
2. Connect the provided OBD cable to the OBD-II port of your car.
3. Connect the other end of the OBD cable to the P10 HUD unit's OBD cable connector.
4. Place the P10 unit on your dashboard using the anti-slip mat to secure it. Ensure it is positioned where it does not obstruct your view of the road.
5. Start your vehicle. The P10 unit will power on automatically and begin displaying data from your car's computer.

Figure 3: The AMROOLOO P10 HUD unit placed on a car dashboard, displaying speed (90 KM/H), RPM (2300), and engine coolant temperature (86°C), demonstrating its non-intrusive placement and clear visibility.

Figure 4: An illustration highlighting the design details of the AMROOLOO P10, including the OBD cable connector, sensor hole, toggle button, and screw hole, providing a clear guide to its physical features.

Vehicle Compatibility

The P10 OBD meter is compatible with most cars manufactured after 2008. It connects to your car's internal computer to read and display data. Examples of compatible vehicles include, but are not limited to, BMW X5 and X6, Porsche Cayenne 2013-2018, Chevrolet Cobalt 2016-2017, Mercedes-Benz E300L and 2008 E280, 2008-2020 Volkswagen Range Rover, and Audi Q5 2015-2017.

Important Note: If your car is not compatible with the OBD mode, the P10 also supports a GPS mode. The GPS system receives signals from satellites, ensuring strong compatibility with all car models. If you encounter incompatibility issues with OBD mode, please switch to GPS mode as per the instructions in the included manual.

Automotive OBD Meter

This gauge is suitable for most cars after 2008.

When the OBD protocol in the car is compatible with the product's OBD protocol, the product will read the data and display it on the screen.

10
KM/H
11.9V   86℃

"If you're not sure if your car is compatible, you can ask ahead of time."

Figure 5: The AMROOLOO P10 unit displayed alongside miniature car models, illustrating its compatibility with most cars manufactured after 2008, and showing a basic display of speed, voltage, and coolant temperature.

Operating Instructions

Display Functions

The P10 HUD provides a wide range of real-time driving data by reading information directly from your car's onboard computer. Key display functions include:

- **Speed:** Current driving speed (KM/H or MPH).
- **RPM:** Engine revolutions per minute.
- **Water Temperature:** Engine coolant temperature.
- **Voltage:** Vehicle battery voltage.
- **Fuel Consumption:** Real-time fuel usage.
- **Driving Distance:** Distance traveled during the current trip.
- **Driving Time:** Duration of the current trip.

- **Oil Temperature:** Engine oil temperature.
- **Air-Fuel Ratio:** Ratio of air to fuel in the engine.
- **Intake Pressure:** Manifold absolute pressure.
- **Turbine Pressure:** Turbocharger boost pressure (if applicable).
- **Data Stream:** Various other diagnostic data points.

All data is updated continuously and synchronized with your car's driving computer.
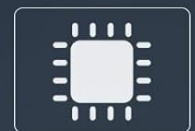
Figure 6: A close-up of the AMROOLOO P10 screen showing various automotive smart meter data points, including DTCs status, freeze DTCs, loop status, engine load, coolant temperature, and fuel trim, highlighting its diagnostic capabilities.

Multiple Display Screens

The P10 offers eight different display screens that can be switched to suit your preference. These include:

- Speed Circle Separation Screen
- Speed Bar Display Screen
- Upper and Lower Split Screen

- Single Speed Display Screen

- Six Gallery Screen

- Acceleration Test Screen

- Brake Test Screen

- Data Base Screen

Refer to the included multi-language manual for detailed instructions on how to switch between these display modes using the toggle button on the unit.

Figure 7: The AMROOLOO P10 displaying multiple functions simultaneously, such as speed (56), RPM (3700), trip time (0:43), distance (16.5), coolant temperature (90°C), and voltage (12.1V), illustrating its comprehensive data presentation.

Automatic Brightness Adjustment

The P10 features an automatic light-sensitive function that adjusts the screen's brightness based on ambient light conditions. This ensures that the data displayed is clearly visible whether you are driving during the day or at night, without causing glare or being too dim.
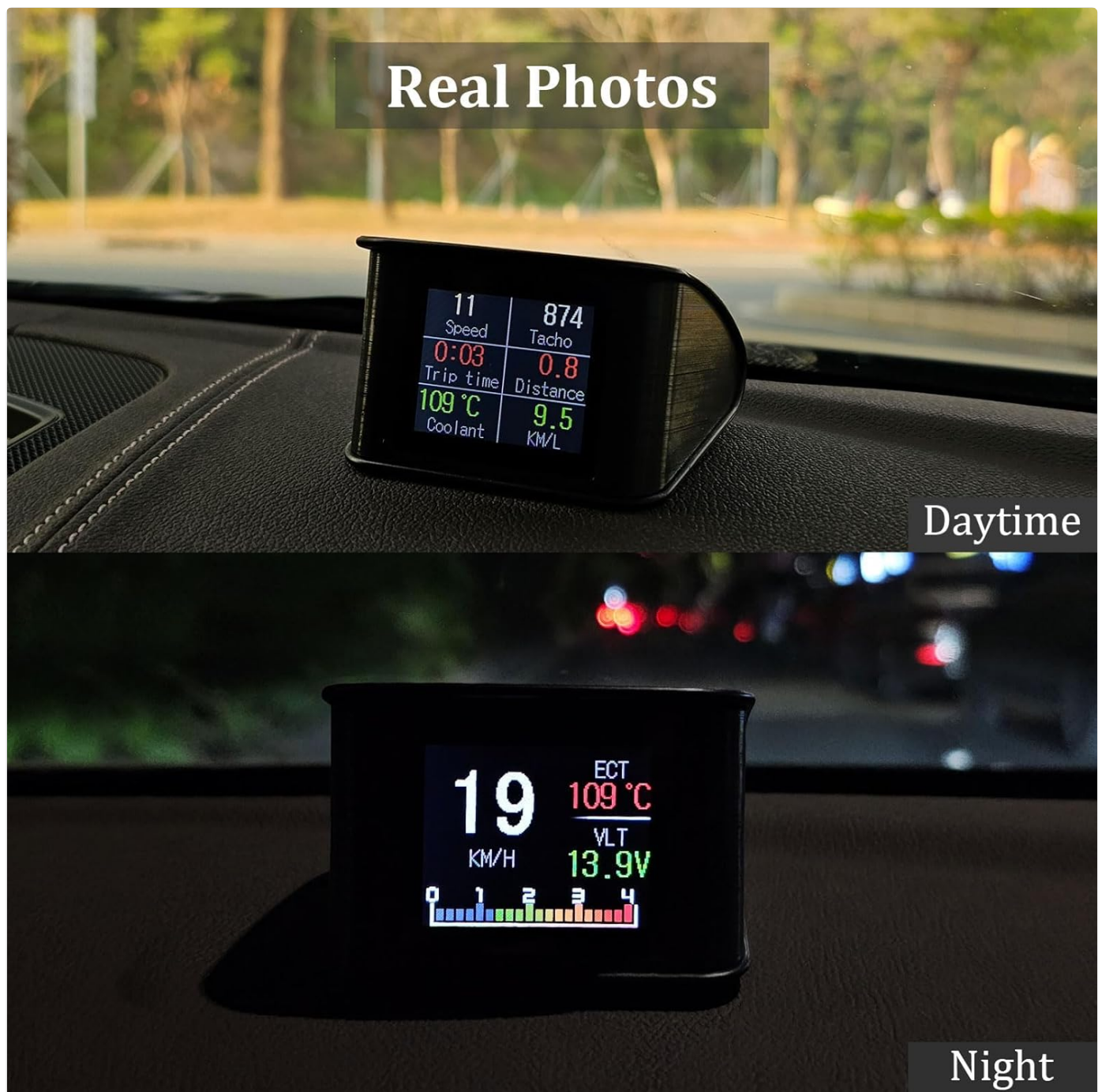
Figure 8: A comparison image showing the AMROOLOO P10 display in both bright daytime and dark nighttime conditions, demonstrating its automatic light-sensitive adjustment for optimal visibility.

Alert Functions

The P10 Smart Meter includes four essential alert functions to help you monitor critical vehicle parameters and ensure safe driving:

- **Overspeed Alarm:** Alerts you if your speed exceeds a preset limit.
- **RPM Alarm:** Notifies you if engine RPM goes beyond a safe threshold.
- **Voltage Alarm:** Warns of abnormal battery voltage levels.
- **Water Temperature Alarm:** Alerts you if the engine coolant temperature becomes too high.

These alarms will prompt you when a monitored value reaches its set threshold, allowing for timely intervention.

Figure 9: The AMROOLOO P10 screen showing speed (53 KM/H) and RPM (3600), with icons indicating overspeed, RPM, voltage, and water temperature alarms, demonstrating its safety alert features.

Maintenance

To ensure the longevity and optimal performance of your AMROOLOO P10 HUD, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe the screen and the unit's body. Avoid using abrasive cleaners, solvents, or spray directly onto the device, as these can damage the display or internal components.
- **Placement:** Ensure the unit is placed on a stable surface using the provided anti-slip mat to prevent movement during driving. Avoid placing it in direct sunlight for extended periods when the car is parked, as extreme heat can affect electronic components.
- **Storage:** If you plan not to use the device for an extended period, disconnect it from the OBD-II port and store it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Care:** Handle the OBD cable carefully. Avoid sharp bends or kinks that could damage the internal wires. Do not pull the cable forcefully when disconnecting.

Troubleshooting

If you encounter any issues with your AMROOLOO P10 HUD, please refer to the following common troubleshooting tips:

- **No Display/No Power:**

  - Ensure the OBD cable is securely connected to both the P10 unit and your car's OBD-II port.
  - Verify that your car's ignition is on or the engine is running. The unit powers on with the vehicle.
  - Check if your car's OBD-II port is functional. You can test it with another OBD device if available.

- **Incompatible with OBD Mode:**

  - As mentioned in the compatibility section, some older car models or specific vehicle systems may not fully support OBD mode.
  - If your car was manufactured before 2008 or you experience persistent incompatibility, switch the P10 to GPS mode. Instructions for switching modes are in the detailed manual provided with the product.

- **Incorrect Readings:**

  - Ensure the unit is properly configured for your region's units (KM/H or MPH). Refer to the manual for unit conversion settings.
  - If readings seem erratic, try disconnecting and reconnecting the OBD cable.
  - Ensure the P10's firmware is up to date (if applicable, check the manufacturer's website for updates).

- **Menu Navigation Confusion:**

  - The menu system may require some familiarity. Take time to review the specific instructions in the included manual regarding the toggle button and menu options. Practice navigating the menus while the vehicle is stationary.

If these steps do not resolve the issue, please consult the comprehensive user manual or contact AMROOLOO customer support for further assistance.

Specifications

Feature	Specification
Model Number	P10
Brand	AMROOLOO
Product Dimensions (L x W x H)	7.3 x 6.8 x 4.6 cm
Item Weight	76 Grams
Screen Size	5.6 Centimeters (TFT LCD)
Material	Plastic
UPC	743430908712
Power Source	OBD-II Port
Origin	China

Warranty and Support

Warranty Information: For specific warranty details regarding your AMROOLOO P10 HUD, please refer to the documentation included in your product packaging or visit the official AMROOLOO website. Standard return policies typically allow for returns or replacements within 30 days of purchase, subject to retailer terms.

Customer Support: If you require technical assistance, have questions about product functionality, or need to report an issue, please contact AMROOLOO customer support. Contact information can usually be found in the product manual or on the official AMROOLOO brand store page.

We are committed to providing high-quality products and support to ensure your satisfaction.