Moman HOBS

Moman HOBS Car HUD Digital GPS Speedometer User Manual

Comprehensive instructions for your Moman OBD2 Gauge Head Up Display

1. Introduction

The Moman HOBS Car HUD Digital GPS Speedometer is an advanced head-up display designed to enhance your driving experience by projecting essential vehicle information directly onto your windshield. This device provides real-time data such as speed, compass direction, and various alarms, ensuring you stay informed without diverting your attention from the road.

This OBD2 gauge display is primarily suitable for cars equipped with an OBD2 interface. The OBD mode specifically applies to vehicles with OBD2 and EU-OBD protocols. Please verify your car's compatibility with OBD mode before installation. The device is designed for clarity with high-definition, three-dimensional imaging, minimizing ghosting for optimal visibility day or night.

2. What's in the Box

Upon opening your Moman HOBS Car HUD package, you should find the following components:

- 1 x OBD2 HUD Unit
- 1 x OBD Cable
- 1 x Anti-Slip Mat
- 1 x Instruction Manual

Figure 2.1: Package Contents of the Moman HOBS Car HUD. The image displays the main HUD unit, an OBD cable, an anti-slip mat, and a printed instruction manual, illustrating all items included in the product box.

3. Product Features

The Moman HOBS Car HUD is equipped with a range of features designed for convenience and safety:

- **High-Definition Large Screen Display:** Provides clear, three-dimensional imaging without ghosting, ensuring accurate speed readings and other data.
- **Multi-functional Display:** Includes GPS speed, clock, RPM, water temperature, voltage, fuel

consumption, driving time, altitude, number of satellites, compass, turbo pressure, mileage, shutdown delay, and automatic brightness adjustment.

- **Multiple Alarm Functions:** Features over-speed alarms (3-segment customizable), fatigue driving reminders, RPM alarm, water temperature alarm, and voltage alarm to enhance driving safety.
- **Automatic Light Sensing:** Ten levels of automatic light-sensitive adjustment ensure clear visibility during the day and prevent blinding at night.
- **Ambient Light Design:** The light color changes according to the car's speed, adding a dynamic visual element.
- **Wide Compatibility:** Suitable for most cars with OBD2/EU-OBD protocol manufactured after 2008.

Figure 3.1: Overview of Moman Car HUD Features. This image visually represents the comprehensive data points and alarm functions available on the head-up display, such as speed, RPM, temperature, and various safety alerts.

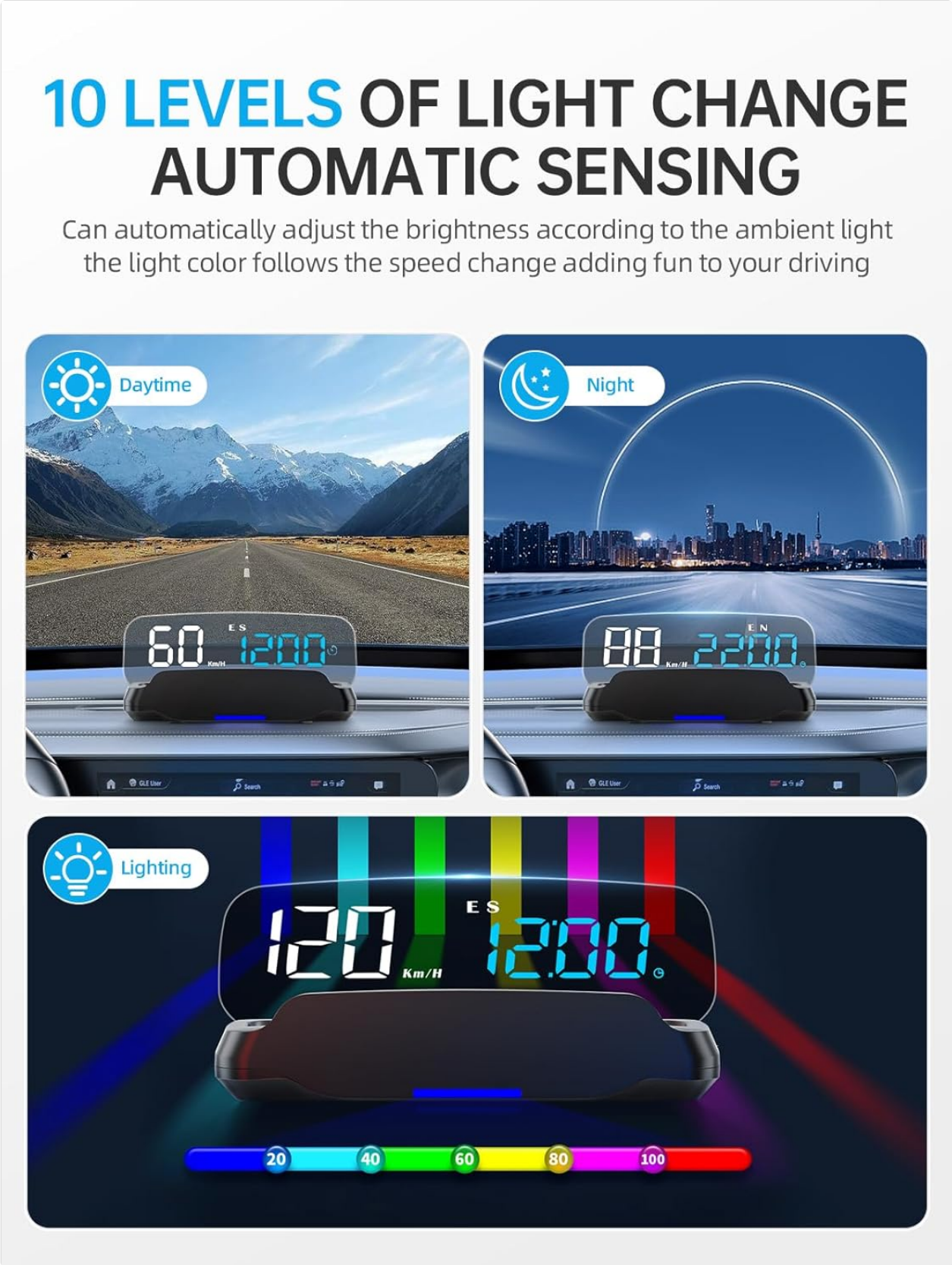


Figure 3.2: Automatic Light Sensing and Ambient Lighting. This illustration highlights how the HUD automatically adjusts its brightness for optimal visibility in both bright daylight and dark night conditions, and how its ambient light changes color with vehicle speed.

4. Setup and Installation

Follow these steps to properly set up and install your Moman HOBS Car HUD:

1. **Step 1: Locate the OBD Port.** The OBD port is typically found under the steering wheel in Japanese cars, near the dash in German cars, or inside the inspection cover on American pickups. Refer to your vehicle's manual if you have difficulty locating it.
2. **Step 2: Connect the OBD Cable.** Plug one end of the provided OBD cable into your car's OBD port and the other end into the HUD unit. Route the cable neatly, possibly hiding it along the A-pillar, to avoid obstruction.
3. **Step 3: Position the HUD Unit.** Place the HUD unit on your dashboard using the anti-slip mat. Ensure it is positioned where the projected display is clearly visible on your windshield without obstructing your view of the road.
4. **Step 4: Power On and Wait for Signal.**Once connected, the HUD unit will power on. Wait a few seconds for the satellite icon to stop blinking, indicating that it has acquired a GPS signal and is ready for use.

Figure 4.1: Easy Installation Steps. This visual guide demonstrates the simple three-step process for installing the Moman HOBS Car HUD, from finding the OBD port to final placement and power-up.

5. Operating Instructions

The Moman HOBS Car HUD offers various display modes and settings. Familiarize yourself with the controls for optimal use.

5.1 Display Modes

The unit can switch between multiple display modes to show different combinations of information. Use the

control button (often a wave wheel or multi-function button) to cycle through these modes:

- Speed + Distance + Direction of Travel
- Speed + Altitude + Direction of Travel
- Speed + Date + Direction of Travel
- Speed + Clock
- Speed + Travel Time + Direction of Travel
- Speed (single display)
- Speed + Voltage
- Speed + Water Temperature
- Speed + Turbo Pressure
- Rotate Speed (RPM)

Figure 5.1: Multiple Display Modes. This image demonstrates the versatility of the HUD, showcasing different data combinations that can be selected by the user, including speed, distance, time, and more.

5.2 Understanding Display Elements

The HUD display includes several key indicators:

- **Speed:** Your current driving speed.
- **Speed Unit:** Indicates whether speed is displayed in KM/H (kilometers per hour) or MPH (miles per hour).
- **Multi-function Display Area:** Shows additional data like date, time, altitude, traveling time, driving

distance, driving direction (N, S, E, W), number of satellites, turbo pressure, voltage, water temperature, and RPM.

- **Fatigue Driving Icon:** Appears when the fatigue driving reminder is active.
- **Speed Alarm Icon:** Indicates an active speed warning.
- **Satellite Icon:** Shows GPS signal status.
- **Compass:** Displays current driving direction.

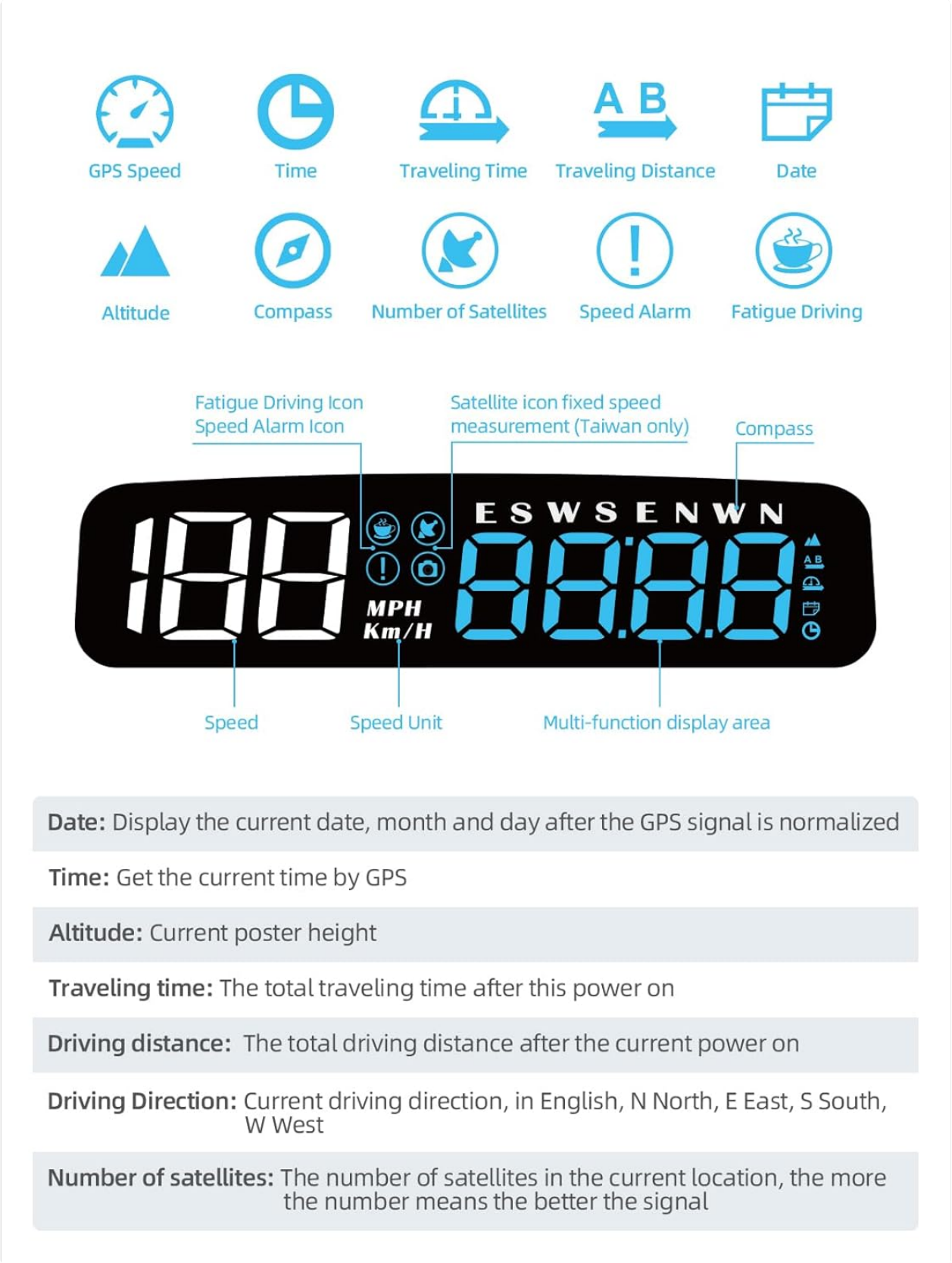


Figure 5.2: Detailed Display Elements. This diagram provides a comprehensive breakdown of each icon and numerical display on the HUD, explaining their meaning and function for clear user understanding.

5.3 Setting Alarms

The HUD allows you to set various alarms for enhanced safety:

- **Over-speed Alarm:** You can set up to three different speed thresholds. If your vehicle exceeds these speeds, the HUD will provide a visual alert.
- **Fatigue Driving Reminder:** Customize the time interval for this reminder to prompt you to take breaks during long drives.
- **RPM, Water Temperature, Voltage Alarms:** These can be configured to alert you if your engine's RPM, coolant temperature, or battery voltage exceed safe operating limits.

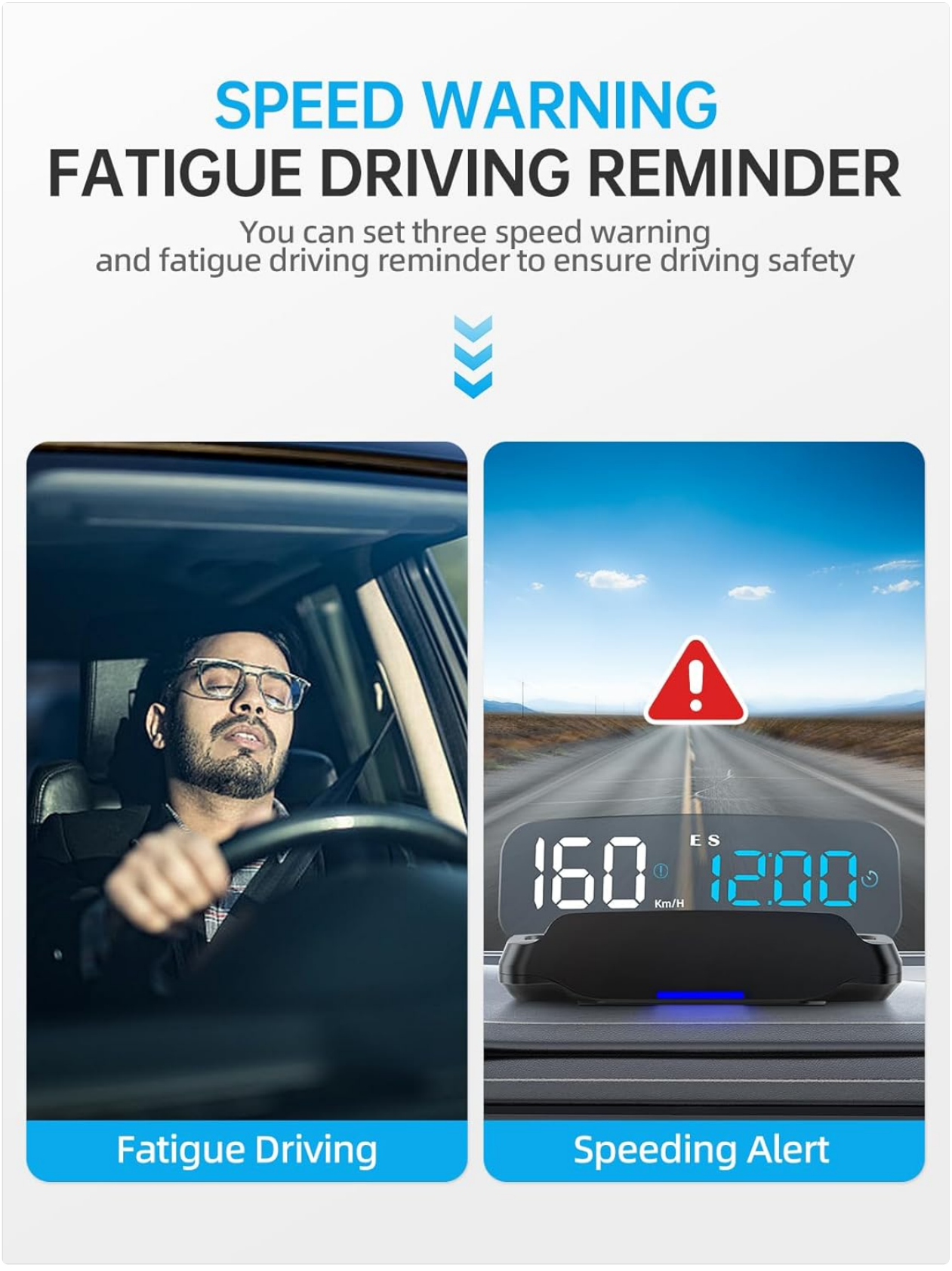


Figure 5.3: Speed Warning and Fatigue Driving Reminder. This image illustrates the safety features of the HUD, showing how it alerts the driver to excessive speed and reminds them to rest during prolonged driving periods.

6. Maintenance

To ensure the longevity and optimal performance of your Moman HOBS Car HUD, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the display and exterior of the unit. Avoid abrasive cleaners or solvents that could damage the surface.
- **Placement:** Ensure the unit is securely placed on the anti-slip mat to prevent movement during driving. Avoid placing heavy objects on top of the unit.
- **Cable Care:** Do not bend or crimp the OBD cable excessively. Store it neatly to prevent damage.
- **Temperature:** While designed for automotive environments, avoid exposing the unit to extreme temperatures for prolonged periods when not in use.

7. Troubleshooting

If you encounter issues with your Moman HOBS Car HUD, refer to the following common problems and solutions:

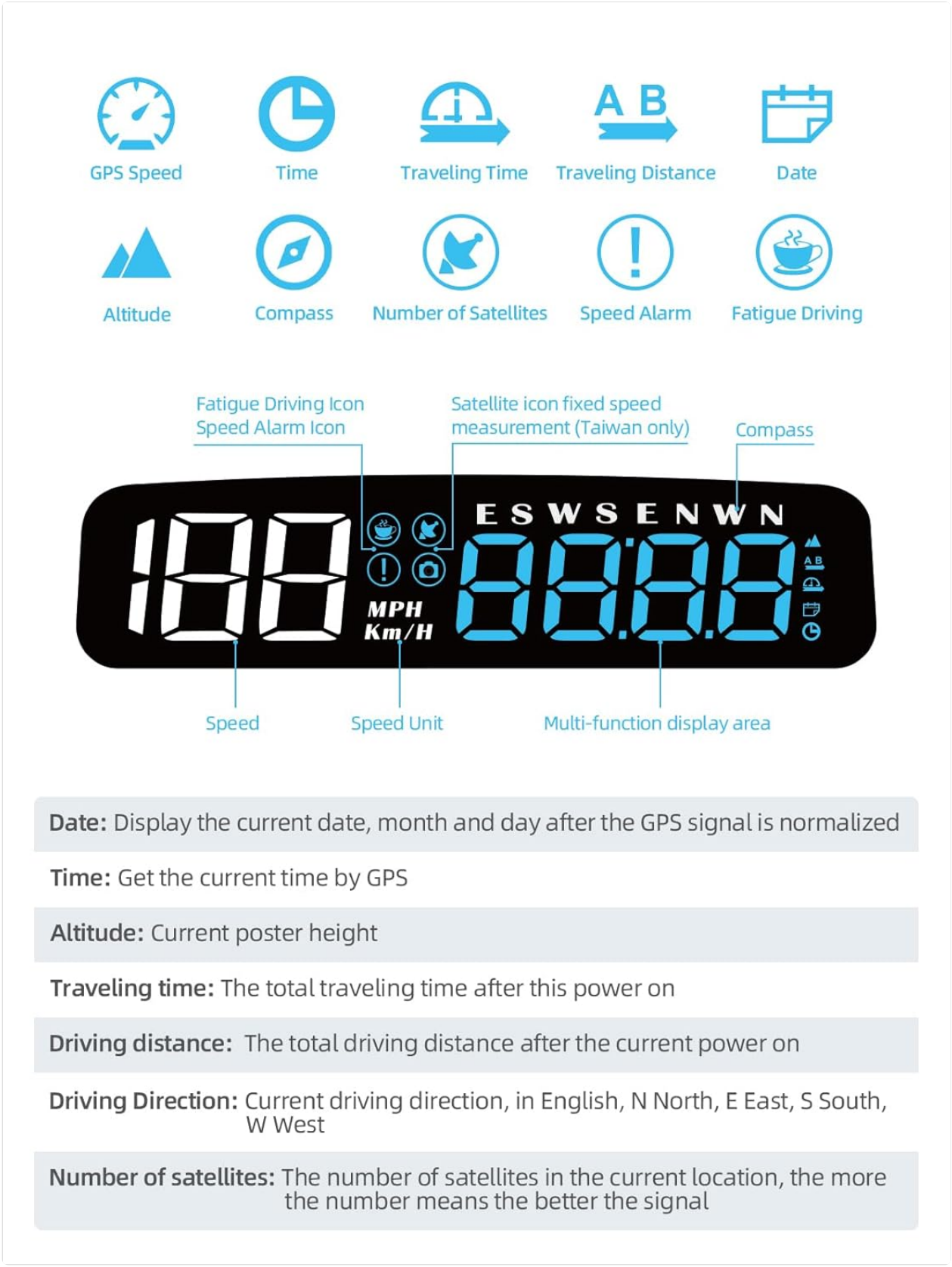
Problem	Possible Cause	Solution
No display/Unit not powering on	Loose cable connection, vehicle's OBD port issue, unit malfunction.	Ensure the OBD cable is securely connected to both the HUD and the car's OBD port. Check if your car's OBD port is functioning correctly (e.g., by testing with another OBD device).
Inaccurate speed reading	GPS signal interference, incorrect calibration.	Ensure the unit has a clear view of the sky for optimal GPS signal reception. Refer to the detailed instruction manual for calibration steps if available.
Display shows KM/H instead of MPH (or vice-versa)	Incorrect unit setting.	The unit has a button (often a wave wheel or multi-function button) to switch between KM/H and MPH. Press or hold this button as per the detailed manual's instructions to change the unit. Some models may require entering a settings menu (e.g., short click to #5 for unit change, then long hold to save).
Display is dim or too bright	Automatic light sensor obstruction or manual setting override.	Ensure the light sensor on the unit is not obstructed. The unit features 10 levels of automatic light adjustment; allow it to adapt to ambient light. If issues persist, check the manual for manual brightness adjustment options.

Problem	Possible Cause	Solution
No compass display or incorrect direction	GPS signal issue, unit not calibrated for compass.	Ensure strong GPS signal. Some units may require initial calibration by driving in a circle or specific pattern. Consult the full instruction manual for compass calibration procedures.

If the problem persists after trying these solutions, please contact Moman customer support for further assistance.

8. Specifications

Attribute	Detail
Product Dimensions	6.3 x 2.76 x 2.36 inches; 7.05 ounces
Item Model Number	HOBS
Date First Available	February 25, 2025
Manufacturer	Moman
ASIN	B0DYDPPMSX
Brand	Moman
Material	Polycarbonate (PC)
Item Weight	0.2 Kilograms



Date: Display the current date, month and day after the GPS signal is normalized

Time: Get the current time by GPS

Altitude: Current poster height

Traveling time: The total traveling time after this power on

Driving distance: The total driving distance after the current power on

Driving Direction: Current driving direction, in English, N North, E East, S South, W West

Number of satellites: The number of satellites in the current location, the more the number means the better the signal

Figure 8.1: HUD Display Elements and Dimensions. This image provides a visual representation of the HUD's physical dimensions and the layout of its display elements.

9. Warranty and Support

Moman products are designed for reliability and performance. For information regarding product warranty, returns, or technical support, please refer to the official Moman website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

For additional resources and frequently asked questions, visit theMoman Store on Amazon.