

[Manuals.plus](#) /

› [AMHVMU](#) /

› AMHVMU M17 Car HUD Head-up Display User Manual

AMHVMU M17

AMHVMU M17 Car HUD Head-up Display User Manual

Model: M17

1. INTRODUCTION

The AMHVMU M17 Head-Up Display (HUD) is an advanced vehicle accessory designed to project crucial driving information directly onto your windshield. This allows drivers to monitor vehicle data such as speed, RPM, water temperature, voltage, and more, without diverting their attention from the road. The M17 features a dual system (OBD2 + GPS) for broad compatibility across various vehicle types.

This manual provides comprehensive instructions for the installation, operation, and maintenance of your M17 HUD, along with troubleshooting tips to ensure optimal performance.

2. PRODUCT FEATURES

- **Dual System:** Supports both OBD2 and GPS modes. OBD2 mode is compatible with most vehicles manufactured after 2008. GPS mode is universally compatible with all vehicles.
- **Multiple Display Functions:** Displays vehicle speed, engine RPM, water temperature, voltage, fuel consumption, mileage, driving direction, 100 km acceleration time, travel time, travel distance, and clock.
- **Alarm Functions:** Includes overspeed alarm, engine RPM alarm, voltage alarm, water temperature alarm, and fatigue driving reminder.
- **Automatic Brightness Adjustment:** The display brightness automatically adjusts according to ambient light conditions for optimal visibility day or night.
- **Compact Design:** Sleek and compact design that integrates seamlessly into your vehicle's dashboard.



Figure 2.1: The M17 HUD projection display showing various data points including speed, RPM, water temperature, voltage, and navigation icons. It illustrates the comprehensive information available to the driver.



Figure 2.2: The AMHVMU M17 HUD displaying speed and time on a car windshield, demonstrating its compact size and clear projection for easy readability while driving.

3. WHAT'S IN THE BOX

Upon opening the package, please verify that all the following items are included:

- AMHVMU M17 Head-Up Display Unit
- OBD2 Cable
- USB Cable
- Non-slip Mat
- Reflective Film
- User Manual (this document)



Figure 3.1: The complete set of accessories included with the AMHVMU M17 HUD, showing the main unit, cables, mat, film, and manual.

4. SETUP AND INSTALLATION

Follow these steps to properly install your AMHVMU M17 HUD:

1. **Placement:** Choose a suitable flat surface on your dashboard, typically near the windshield, where the HUD will not obstruct your view of the road. Place the non-slip mat on this surface.
2. **Secure the HUD:** Place the M17 HUD unit on the non-slip mat to prevent it from sliding during driving.
3. **Connect Power:**
 - **For OBD2 Mode:** Locate your vehicle's OBD2 port (usually under the dashboard on the driver's side). Connect one end of the OBD2 cable to the HUD unit and the other end to the vehicle's OBD2 port.
 - **For GPS Mode:** Connect one end of the USB cable to the HUD unit and the other end to a USB power source in your vehicle (e.g., a USB car charger or a car's USB port).
4. **Route the Cable:** Carefully route the connected cable along the dashboard and A-pillar to conceal it and prevent interference with driving controls.
5. **Apply Reflective Film (Optional):** If the display is not clear due to windshield reflections, apply the reflective film to the windshield where the HUD projects. Clean the windshield thoroughly before applying.



Figure 4.1: Step-by-step installation guide for the M17 HUD, illustrating how to connect the power cable (OBD or USB), route it, and position the device on the dashboard.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

The M17 HUD will automatically power on when your vehicle starts and power off when the engine is turned off (for OBD2 mode) or when the USB power is disconnected (for GPS mode).

5.2 System Selection (OBD2 vs. GPS)

The M17 automatically detects the connection type. If both OBD2 and USB cables are connected, the device will prioritize OBD2 mode. If only the USB cable is connected, it will operate in GPS mode.

5.3 Display Functions and Icons

The M17 displays various information. Refer to the diagram below for an explanation of common icons and data points.



Figure 5.1: Detailed explanation of the M17 HUD display, showing icons and their corresponding functions such as speed, RPM, water temperature, voltage, and alarm indicators.

Table 5.1: M17 Display Information (OBD & GPS Modes)

Function	OBD Mode	GPS Mode
Speed	✓	✓
RPM	✓	✗
Water Temperature	✓	✗
Voltage	✓	✓
Fuel Consumption	✓	✗
Mileage	✓	✓
Driving Direction	✓	✓
100 km Acceleration	✓	✓
Travel Time	✓	✓
Clock	✓	✓

5.4 Alarm Functions

The M17 HUD includes several alarm functions to enhance driving safety:

- **Overspeed Alarm:** Alerts you when your vehicle exceeds a preset speed limit.
- **Engine RPM Alarm:** Notifies you if engine RPM goes beyond a safe threshold.
- **Voltage Alarm:** Warns you about abnormal vehicle battery voltage.
- **Water Temperature Alarm:** Alerts you if the engine's water temperature becomes too high.

- **Fatigue Driving Reminder:** Prompts you to take a break after a prolonged period of driving.



Figure 5.2: Visual representation of the five humanitarian alarm settings available on the M17 HUD, designed to improve driving safety.

6. MAINTENANCE

To ensure the longevity and optimal performance of your AMHVMU M17 HUD, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe the display screen and the unit's body. Avoid using abrasive cleaners or solvents, which can damage the surface.
- **Storage:** If you plan not to use the HUD for an extended period, disconnect it from the power source and store it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Care:** Ensure that the OBD2 and USB cables are not kinked, pinched, or subjected to excessive tension, as this can damage the internal wiring.
- **Power Supply:** The operating voltage for the M17 HUD is 5V. Do not use power sources exceeding 5V, as this can cause irreversible damage to the device.

7. TROUBLESHOOTING

If you encounter any issues with your M17 HUD, please refer to the following common problems and their solutions:

Table 7.1: Common Troubleshooting Guide

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
No Display / Device Not Powering On	<ul style="list-style-type: none"> Loose cable connection. No power from OBD2 port or USB port. Vehicle not started (for OBD2). Incorrect voltage supply. 	<ul style="list-style-type: none"> Check if the OBD2 or USB cable is securely connected to both the HUD and the vehicle port. Ensure the vehicle engine is running (for OBD2). Try a different USB port or car charger (for GPS). Verify the power source provides 5V.
Inaccurate Speed Reading	<ul style="list-style-type: none"> GPS signal weak (for GPS mode). OBD2 data discrepancy. 	<ul style="list-style-type: none"> For GPS mode, ensure the vehicle is in an open area with clear sky view. The HUD may require calibration. Refer to the advanced settings in the full manual (if available) or contact support for calibration instructions.
Display is Faint or Too Bright	<ul style="list-style-type: none"> Automatic brightness adjustment issue. Strong ambient light. 	<ul style="list-style-type: none"> The device has automatic brightness adjustment. If issues persist, ensure the photosensitive element is not obstructed. Consider using the reflective film if the display is too faint in bright sunlight.
Alarms Not Functioning	<ul style="list-style-type: none"> Alarm settings are off or set too high/low. 	<ul style="list-style-type: none"> Check the device settings to ensure alarms are enabled and thresholds are correctly configured.

8. SPECIFICATIONS

Table 8.1: AMHVMU M17 Technical Specifications

Feature	Detail
Model Number	M17
Brand	AMHVMU
Display Type	LCD LED
Screen Size	3.5 Inches
Connectivity Technology	USB (for GPS mode), OBD2 (for OBD mode)
Operating Voltage	5V

Feature	Detail
Weight	230 Grams
Color	Black
ASIN	B0C7QHLLZP
UPC	743430814099

9. WARRANTY AND SUPPORT

9.1 Warranty Information

Specific warranty details for the AMHVMU M17 HUD are typically provided with your purchase documentation or on the product packaging. Please retain your proof of purchase for any warranty claims. The manufacturer warrants this product against defects in materials and workmanship under normal use for a specified period from the date of original purchase. *Note:* Damage resulting from misuse, accident, modification, unauthorized repair, or improper installation is not covered under warranty.

9.2 Customer Support

If you have any questions, require technical assistance, or encounter issues not covered in this manual, please contact AMHVMU customer support. You can typically find contact information on the product packaging, the official AMHVMU website, or through your retailer.

For prompt assistance, please be prepared to provide your product model (M17) and details of your issue.