



Manuals.plus /

› AMHVMU /

› AMHVMU G20 Car Head Up Display GPS Car Speedometer User Manual

AMHVMU G20

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Model: G20 | Brand: AMHVMU

1. INTRODUCTION

The AMHVMU G20 Car Head Up Display (HUD) GPS Speedometer is designed to provide essential driving information directly in your line of sight, enhancing safety and convenience. This device features a clear, large display with intelligent brightness adjustment, a speed alarm function, and a compass display. Its plug-and-play design makes it suitable for all vehicle types, offering precise speed data via GPS/BeiDou dual-mode satellite reception.



Figure 1.1: AMHVMU G20 HUD unit with included suction cup mount and USB power cable.

2. PRODUCT FEATURES

- **GPS/BeiDou Dual Module:** Supports satellite signal reception through GPS/BeiDou two-channel module for accurate speed data and improved driving safety.
- **Main Functions:** Displays GPS speed, provides speed warnings, shows compass direction, and features automatic brightness adjustment.
- **Wide Application:** Compatible with domestic, Asian, American, and European car series. Operates with a USB cable (DC 5V-24V).

- **Intelligent Brightness Adjustment:** Utilizes a light sensor to automatically adjust screen brightness for optimal readability and eye protection. Ensure the light sensor hole on the back of the device is not covered.
- **Plug and Play:** Ready to use upon connection, requiring minimal setup.
- **Large Display:** Features a large font for clear and optimal readability of speed and other information.
- **Switchable Mileage Display:** Allows users to switch between different mileage display modes.



Figure 2.1: Visual representation of key product features.

GPS+Beidou dual-mode chip

Adopt 10Hz high refresh rate GPS + Beidou dual-mode chip
10 frames per second refresh rate,
the speed is not stuck



Figure 2.2: The G20 utilizes a GPS+Beidou dual-mode chip for high refresh rate and accurate speed tracking.

3. PACKAGE CONTENTS

Please check the package contents upon opening to ensure all items are present:

- 1 x AMHVMU G20 HUD Unit
- 1 x Rotary Suction Cup Holder
- 1 x Micro USB Cable
- 1 x Non-slip Mat
- 1 x Instruction Manual (this document)

Product list



【G20-HUD】



【Instructions】



【Rotary Suction Cup Holder】



【Micro USB】



【Non-slip mat】

Figure 3.1: All components included in the AMHVMU G20 package.

4. SETUP AND INSTALLATION

- 1. Choose a Location:** Select a suitable location on your dashboard or windshield that does not obstruct your view of the road. The device is designed to be compact and not block line of sight.
- 2. Attach the Mount:**
 - For windshield mounting: Attach the rotary suction cup holder to the desired spot on your windshield. Ensure the surface is clean and dry for optimal suction.
 - For dashboard mounting: Use the provided non-slip mat to place the HUD unit directly on your dashboard.
- 3. Connect the HUD Unit:** Connect the HUD unit to the rotary suction cup holder via the bracket interface on the back of the device.
- 4. Power Connection:** Insert the Micro USB cable into the USB interface on the back of the HUD unit. Connect the other end of the USB cable to a 5V-24V power source in your vehicle (e.g., a USB car charger or a vehicle's USB port).
- 5. Power On and Satellite Acquisition:** Once powered, the device will automatically turn on. Place the device in a position where it has a clear view of the sky to acquire GPS/BeiDou satellite signals. This process typically takes a minute or two. The speed display will activate once a stable signal is acquired.

Small body, Suitable for placing

No matter where it is placed, it is clear and natural,
Without blocking any line of sight



Figure 4.1: Example of optimal placement on a dashboard, ensuring clear visibility without obstruction.



Figure 4.2: Dimensions and interface layout of the AMHVMU G20 HUD unit.

5. OPERATING INSTRUCTIONS

The AMHVMU G20 is designed for straightforward operation:

- **Speed Display:** Once powered on and satellite signals are acquired, the large digital display will show your current vehicle speed.
- **Compass Display:** The unit also displays a compass bearing (N, S, E, W) when the vehicle is in motion, indicating your general direction of travel.
- **Automatic Brightness:** The built-in light sensor automatically adjusts the display's brightness based on ambient light conditions, ensuring optimal visibility day or night.
- **Speed Unit:** The display can show speed in either MPH (miles per hour) or Km/H (kilometers per hour). Refer to the "Settings and Customization" section for how to switch units.

6. SETTINGS AND CUSTOMIZATION

The G20 offers several customizable settings to enhance your driving experience. While specific button functions are not detailed here, the device typically uses the "Keystroke" buttons (refer to Figure 4.2) for navigation and selection within the

settings menu.

- **Speed Unit Switching:** You can switch between MPH and Km/H display modes. Consult the on-screen prompts or the included quick-start guide for the exact button sequence.
- **Speed Alarm Setting:** Set a desired speed threshold. The device will provide an audible or visual warning when this speed is exceeded. This feature helps in maintaining safe driving speeds.
- **Speed Calibration:** If you notice a slight discrepancy between the G20's speed reading and your vehicle's speedometer, the device allows for minor calibration adjustments.
- **Mileage Display:** The device supports switchable mileage display modes.

For detailed instructions on accessing and adjusting specific settings, please refer to the compact instruction manual included in your product package.

7. TROUBLESHOOTING

If you encounter any issues with your AMHVMU G20, please refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Speed Reading / "0" Display	<ul style="list-style-type: none">• No GPS/BeiDou signal.• Device is in an area with obstructed sky view (e.g., tunnels, underground car parks, dense urban areas).• Device not powered on.	<ul style="list-style-type: none">• Ensure the device has a clear view of the sky.• Move the vehicle to an open area.• Check USB power connection.
Inaccurate Speed Reading	<ul style="list-style-type: none">• Initial signal acquisition still in progress.• Minor calibration needed.	<ul style="list-style-type: none">• Allow a few minutes for the device to stabilize its signal.• Refer to the "Settings and Customization" section for speed calibration options.
Display Too Dim or Too Bright	<ul style="list-style-type: none">• Light sensor obstructed.• Extreme ambient light conditions.	<ul style="list-style-type: none">• Ensure the photosensitive element (light sensor) on the back of the device is not covered.• The automatic brightness adjusts to most conditions, but extreme glare or darkness might affect perception.
Device Does Not Power On	<ul style="list-style-type: none">• USB cable not properly connected.• Power source issue.	<ul style="list-style-type: none">• Verify the Micro USB cable is securely connected to both the device and the power source.• Test the USB power source with another device to ensure it is functional.

8. SPECIFICATIONS

Attribute	Detail
Brand	AMHVMU
Model Number	G20
Product Dimensions (L x W x H)	7.7 x 2.8 x 5.3 cm (approx. 3.04 x 1.10 x 2.09 inches)
Item Weight	130 g
Material	Plastic
Power Input	DC 5V-24V (via USB cable)
Display Type	Digital, White Display
Satellite System	GPS/BeiDou Dual Module
Assembly Required	No

9. WARRANTY AND SUPPORT

AMHVMU is committed to providing high-quality products and customer satisfaction. While specific warranty details are not provided in this manual, we offer 7x24 hours friendly customer service to assist you with any inquiries or issues you may encounter with your G20 GPS Speedometer.

If you have any problems or questions regarding the use, installation, or functionality of your device, please do not hesitate to contact our customer support team through the platform where you purchased the product.