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Avutrel G20

Avutrel G20 Universal GPS HUD Speedometer User Manual

Model: G20

1. Introduction

The Avutrel G20 Universal GPS HUD Speedometer is a versatile head-up display designed to project essential driving data onto your windshield. It provides real-time speed, direction via a compass, and includes an overspeed alarm for enhanced driving safety. This device is compatible with various vehicles, including cars, motorcycles, and bikes, offering a simple plug-and-play installation.

2. Package Contents

Please check the package for the following items:

- G20-HUD Unit
- Instructions Manual (this document)
- Rotary Suction Cup Holder
- Micro USB Power Cable
- Non-slip Mat

3. Product Overview

The Avutrel G20 features a clear LED display that automatically adjusts brightness based on ambient light. It utilizes a GPS+Beidou dual-mode chip for accurate and stable speed readings, refreshing at 10Hz to prevent lag. The integrated compass provides directional information (N, S, E, W), and the overspeed alarm alerts the driver when a preset speed limit is exceeded.



Image: The Avutrel G20 GPS HUD Speedometer unit with its suction cup mount attached, displayed on a modern illuminated platform.



Image: Front view of the Avutrel G20 GPS HUD Speedometer showing its compact dimensions: 78mm in width and 54mm in height.



Image: The Avutrel G20 GPS HUD Speedometer positioned on a car dashboard, displaying speed and compass directions, ready for use.

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Video: A demonstration of the Avutrel G20 GPS HUD Speedometer, showcasing its display and features in operation.

4. Setup and Installation

1. **Choose Placement:** Select a suitable flat surface on your dashboard that does not obstruct your view of the road.
2. **Mounting Options:**
    - **Suction Cup Holder:** Attach the rotary suction cup holder to the bottom of the G20 unit. Secure the suction cup to your chosen dashboard location or windshield. Adjust the angle for optimal viewing.
    - **Non-slip Mat:** Alternatively, place the non-slip mat on your dashboard and position the G20 unit directly on it.
3. **Power Connection:** Connect the provided Micro USB cable to the G20 unit and plug the other end into a 5V USB power source in your vehicle (e.g., a USB port, car charger adapter).

4. **Power On:** The device will power on automatically when connected to power and your vehicle starts. It will begin searching for a GPS signal.



Image: The Avutrel G20 GPS HUD Speedometer mounted on a car dashboard, providing a clear view of the display with the road visible through the windshield.

5. Operating Instructions

1. **Power On/Off:** The device powers on automatically when it receives power and powers off when power is disconnected.
2. **GPS Signal Acquisition:** Upon powering on, the device will search for GPS satellites. This may take a few moments, especially in areas with limited sky visibility. Once a signal is acquired, the speed display will activate.
3. **Speed Display:** The large digital display shows your current speed. The unit (MPH or KM/H) is indicated on the screen.
4. **Compass:** The compass display indicates your current driving direction (N for North, S for South, E for East, W for West).
5. **Automatic Brightness:** The built-in light sensor automatically adjusts the display brightness for optimal visibility in

various lighting conditions, from bright daylight to nighttime.



Image: A split image demonstrating the automatic brightness adjustment of the Avutrel G20, showing its clear display in bright daylight and dimmed for nighttime driving.



Image: The Avutrel G20 GPS HUD Speedometer with a satellite in orbit in the background, highlighting its GPS+Beidou dual-mode chip for high refresh rate and accurate speed.

6. Settings and Functions

- **Speed Unit Switching (MPH/KMH):** To switch between Miles Per Hour (MPH) and Kilometers Per Hour (KMH), locate the function button (usually on the side or back of the unit). A short press or a specific sequence of presses may toggle the speed unit. Refer to on-screen prompts if available.
- **Overspeed Alarm Setting:** The overspeed alarm can be configured to alert you when your speed exceeds a set limit. To adjust the alarm threshold, use the function button. Long-press or multiple presses might enter the setting mode, allowing you to increase or decrease the alarm speed. The device will flash an alert icon and/or emit a sound when the set speed is surpassed.



Image: The Avutrel G20 GPS HUD Speedometer displaying a prominent red warning triangle icon, indicating the speeding alarm function is active.

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the display and exterior of the device. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, disconnect the device from power and store it in a cool, dry place.
- **Avoid Extreme Temperatures:** Do not expose the device to extreme heat or cold, as this can affect its performance and lifespan.

8. Troubleshooting

- **No Display/Device Not Powering On:**
  - Ensure the Micro USB cable is securely connected to both the device and a working 5V USB power source.
  - Check if the vehicle's USB port or car charger is functional.

- **No Speed Reading/GPS Signal Lost:**
  - Ensure the device has a clear view of the sky. Obstructions like tunnels, tall buildings, or dense foliage can interfere with GPS reception.
  - Wait a few moments for the device to acquire a signal after powering on.
  - If stationary, GPS speed might read zero or fluctuate slightly. Speed is most accurate when moving.
- **Inaccurate Speed Reading:**
  - GPS speed is generally accurate. Compare it with your vehicle's speedometer. Small discrepancies are normal.
  - Ensure the device is not obstructed.
- **Display Too Dim/Too Bright:**
  - The device features automatic brightness adjustment. Ensure the light sensor (usually a small dot on the front) is not covered.
- **Overspeed Alarm Not Working:**
  - Check if the alarm function is enabled and if the speed threshold is set correctly.

9. Specifications

Feature	Detail
Brand	Avutrel
Model Number	G20
Item Dimensions (L x W x H)	4.13 x 2.95 x 2.95 inches
Display Type	HD HUD Display
Speed Units	MPH / KMH
Navigation	GPS + Beidou Dual-Mode Chip
Features	Compass, Overspeed Alarm, Auto Brightness Adjustment
Included Components	G20-HUD, Instructions, Rotary Suction Cup Holder, Micro USB, Non-slip mat

10. Warranty and Support

This product comes with a standard manufacturer's warranty. For warranty claims, technical support, or further assistance, please refer to the contact information provided with your purchase or visit the Avutrel official website.

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