

VJOYCAR G20

VJOYCAR G20 GPS Digital Speedometer HUD User Manual

Model: G20

Brand: VJOYCAR

1. INTRODUCTION

The VJOYCAR G20 GPS Digital Speedometer HUD is designed to display real-time driving speed directly from GPS satellites. This head-up display offers a clear, large-font readout, making it easy to monitor your speed without diverting your attention from the road. It is universally compatible with all vehicles, including cars, trucks, SUVs, ATVs, pick-up trucks, scooters, golf carts, buses, trains, bikes, and motorcycles, as it operates independently of the vehicle's engine or OBD port.

The device features a 10 Hz high refresh rate VJOYCAR chipset, ensuring rapid and accurate speed updates. Its simple plug-and-play design requires no complex settings or button interactions, making installation and use straightforward. The G20 automatically powers on when the vehicle's ACC is detected as on, and powers off when the ACC is off, ensuring no power consumption when not in use.



Figure 1.1: The VJOYCAR G20 GPS Digital Speedometer HUD with its included USB cable, non-slip mat, and packaging.

2. PACKAGE CONTENTS

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

- VJOYCAR G20 HUD Unit (Host)
- 2-meter USB Cable
- Non-slip Mat
- User Manual (this document)

Products Show



Packing List



Figure 2.1: Illustration of the VJOYCAR G20 HUD unit, 2m USB cable, non-slip mat, user manual, and gift box.

3. SETUP AND INSTALLATION

The VJOYCAR G20 is designed for simple plug-and-play installation, requiring no complex wiring or configuration. Follow these steps to set up your device:

1. **Choose a Location:** Place the HUD unit on your dashboard in a position that allows for clear visibility without obstructing your view of the road. The included non-slip mat can be used to secure the device.
2. **Connect Power:** Connect the provided USB cable to the Mini USB port on the HUD unit. Plug the other end of the USB cable into a USB port in your vehicle. If your vehicle does not have a USB port, you will need a car adapter (not included) to provide power.
3. **Initial GPS Signal Acquisition:** Upon first use, the device will take approximately 10-30 seconds to acquire a GPS signal. Ensure the vehicle is outdoors and not in an underground parking lot or tunnel for proper signal reception. Once connected, the display will show "0" or the current speed.

Plug and Play



0 power consumption



Figure 3.1: The USB cable connection for the VJOYCAR G20 HUD, illustrating its plug-and-play functionality.



Figure 3.2: The VJOYCAR G20 HUD placed on a car dashboard, displaying speed.

Setup Demonstration Video

Your browser does not support the video tag.

Video 3.1: This video demonstrates the simple setup process of the VJOYCAR G20 Digital Speedometer HUD, including connecting the USB cable and placing the device on the dashboard. It also shows the device in operation, displaying speed in real-time.

4. OPERATING INSTRUCTIONS

The VJOYCAR G20 operates automatically once connected to power and a GPS signal is acquired. There are no buttons or manual settings required for basic operation.

- **Automatic Power On/Off:** The device will automatically turn on and display the driving speed when it detects that the car's ACC (Accessory) power is on. When the car's ACC is turned off, the device will automatically power down, ensuring no battery drain.

- **Speed Display:** The large, green digital display shows your current speed in MPH (Miles Per Hour). The speed data is collected directly from GPS satellites, providing an accurate reading independent of your vehicle's internal systems.
- **Universal Compatibility:** Due to its GPS-based operation, the G20 is compatible with virtually all types of vehicles, as it does not interfere with the car's engine or circuit board.

Can work for all cars



Figure 4.1: Diagram illustrating the accurate speed display of the GPS Digital Speedometer, showing consistency with dashboard readings.

Accurate Speed Display

The Device is GPS Digital Speedometer, and speed data is corrected from satellites directly, very accurate and consistent with car dashboard display, no need any adjustment --- Plug & Play



Figure 4.2: This image demonstrates the universal compatibility of the VJOYCAR G20 HUD with various vehicle types, including pick-up trucks, buses, new energy vehicles, gasoline/hybrid vehicles, and motorcycles, all connecting via a standard USB cable.

5. MAINTENANCE

To ensure the longevity and optimal performance of your VJOYCAR G20 GPS Digital Speedometer HUD, please follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the display and the device's exterior. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the surface or internal components.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the device with care to prevent drops or impacts, which could damage the internal electronics or the display.

6. TROUBLESHOOTING

If you encounter any issues with your VJOYCAR G20 HUD, please refer to the following common problems and their solutions:

- **Device Not Powering On:**
 - Ensure the USB cable is securely connected to both the HUD unit and the vehicle's USB port or car adapter.
 - Verify that the vehicle's ACC power is on. The device is designed to power on automatically with the vehicle.
 - If using a car adapter, ensure it is functioning correctly and providing 5V power.
- **No GPS Signal / Display Shows "0" for Extended Period:**
 - For first-time usage or after a long period of inactivity, it may take 10-30 seconds for the device to acquire a GPS signal.
 - Ensure the vehicle is outdoors with a clear view of the sky. The device cannot acquire a GPS signal indoors, in underground parking lots, or in tunnels.
 - Relocate the device on the dashboard to a position with less obstruction from the vehicle's roof or other components.
- **Speed Reading Differs from Car Dashboard:**
 - The GPS speedometer collects data directly from satellites, while car dashboards typically measure speed from tire rotation. A difference of 1%-5% is normal and expected. The GPS reading is generally considered more accurate.
- **Display Brightness Issues (Day/Night):**
 - The device is designed for clear visibility day and night. Ensure the display is not obstructed by direct sunlight or reflections. Adjusting the placement on the dashboard might help.

7. SPECIFICATIONS

Feature	Detail
Model Number	G20
Brand	VJOYCAR
Display Type	Digital Head-Up Display (HUD)
Speed Source	GPS Satellites
Refresh Rate	10 Hz (High Refresh Rate)
Power Input	USB (5V)

Feature	Detail
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Weight	0.11 Kilograms
UPC	610521672619
First Available	October 25, 2022



Figure 7.1: A close-up view of the VJOYCAR G20 HUD display, showing the clear green digital readout.

8. WARRANTY AND SUPPORT







VJOYCAR is committed to providing high-quality products and excellent customer service. The G20 GPS Digital Speedometer HUD comes with a manufacturer's warranty. For specific warranty details, please refer to the product

packaging or contact VJOYCAR customer support.

Our client service is available 7 days a week, 24 hours a day. If you have any questions, concerns, or require assistance with your device, please do not hesitate to contact us. We are here to help.

For further assistance, please visit the official VJOYCAR store or contact their customer support channels.

Related Documents - G20

	<p>VJOYCAR GPS HUD Technical Specifications and User Guide</p> <p>Detailed technical specifications, usage instructions, and warranty information for the VJOYCAR GPS Head-Up Display (HUD) for cars and trucks. Learn about its features, power requirements, operating conditions, and warranty policy.</p>
	<p>User Manual for Smart Watch</p> <p>This user manual provides comprehensive instructions for installing the companion app, setting up the smart watch, and utilizing its various functions including pedometer, heart rate monitoring, Bluetooth calls, sleep tracking, notifications, music control, weather updates, and device management. It also includes important precautions and troubleshooting tips.</p>
	<p>G20 True Wireless Earbuds User Manual and Specifications</p> <p>Comprehensive user manual for the G20 True Wireless Earbuds, covering product description, specifications, wearing methods, operation, pairing, charging, touch controls, game mode, FAQ, precautions, and warranty information. Includes FCC compliance details.</p>
	<p>VJOYCAR W02 5.5" Head Up Display (HUD) User Manual - Installation, Settings, and Operation</p> <p>Comprehensive user manual for the VJOYCAR W02 5.5-inch OBDII Head Up Display (HUD). This guide covers installation, main features, detailed settings, common operation procedures, troubleshooting common problems, and technical specifications for safe and convenient driving.</p>
	<p>G20</p> <p>G20</p>
	<p>G20 Robot Vacuum Hookup Guide</p> <p>A comprehensive guide to setting up and using the G20 Robot Vacuum with the Tuya Smart App, covering Bluetooth, EZ, and AP modes, as well as Alexa and Google Assistant integration.</p>

