CARPURIDE W603B

Carpuride W603B Motorcycle CarPlay Android Auto Screen User Manual

Model: W603B | Brand: CARPURIDE

1. Introduction

The Carpuride W603B is a 6.3-inch waterproof touchscreen display designed for motorcycles, offering wireless Apple CarPlay and Android Auto functionality. This device allows riders to access navigation, make calls, listen to music, and receive messages safely while riding, utilizing voice assistants like Siri or Google Assistant. It is specifically designed for BMW motorcycles such as the R1200GS, R1250GS, and S1000XR, but can be adapted for other motorcycles.

2. Product Features

- **Wireless CarPlay & Android Auto:** Seamlessly connect your smartphone for navigation, calls, music, and messages. Compatible with iOS 6+ and Android 11+.
- **6.3-inch HD IPS Touchscreen:** High-definition (1440x720) display with 1000 nits brightness for clear visibility even in direct sunlight. Features a responsive capacitive touch panel.
- **IP67 Waterproof & Durable Design:** Built to withstand various weather conditions, from heavy rain to scorching sun. Operates reliably in temperatures from -20°C to 80°C.
- **BT Trans Connectivity:** Connect the display to your smartphone and a Bluetooth helmet or headset for hands-free calls and music playback.
- **Wired Controller:** External wired controller for answering calls, powering the screen on/off, and switching between home and current interfaces (CarPlay/Android Auto).
- **Light Sensing Design:** Automatic adjustment of screen brightness based on ambient light for eye protection and safer driving.
- **Anti-theft Removable Mount:** Secure mounting system with an anti-theft design.

Figure 1: Carpuride W603B display mounted on a motorcycle, showcasing its main interface with various application icons.

3. What's in the Box

The Carpuride W603B package includes the following components:

- Carpuride Motorcycle CarPlay Screen (Model 603) x1
- USB Cable x1
- Power Cable x1
- Extension Rod Bracket x1
- Silicone Gasket x4
- Wired Controller x1
- User Manual x1
- Special Bracket for BMW Motorcycles x1

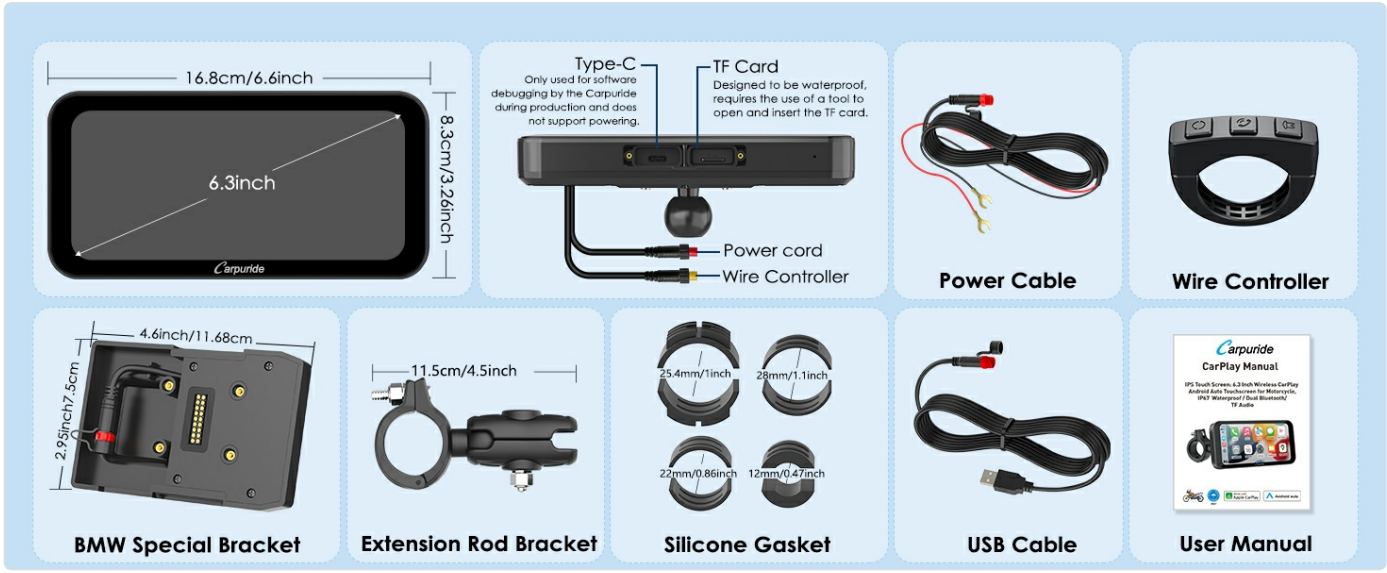

Figure 2: All components included in the Carpuride W603B package.

4. Installation

The Carpuride W603B offers two primary installation methods to suit different motorcycle setups.

4.1. Method 1: Using the BMW Special Bracket

This method is suitable for BMW R1200GS, R1250GS, and S1000XR models that have an original BMW navigation base.

1. Ensure your motorcycle has an original BMW navigation base.
2. Install the provided BMW special bracket onto the motorcycle's navigation base.
3. Attach the Carpuride W603B screen to the BMW special bracket. Ensure it clicks securely into place.
4. Connect the power cable to the motorcycle's battery via the power outlet wire.

Figure 3: Installation steps for BMW motorcycles using the dedicated bracket.

4.2. Method 2: Using the Extension Rod Bracket

This method is suitable for most other motorcycle models using the universal extension rod bracket.

1. Identify a suitable mounting point on your motorcycle's handlebar.
2. Secure the extension rod bracket to the handlebar using the provided silicone gaskets for a snug fit.
3. Attach the Carpuride W603B screen to the extension rod bracket.

4. Connect the power cable to the motorcycle's battery via the power outlet wire.

Figure 4: Power connection options for the Carpuride W603B.

Note: The Model 603 only supports power connection to the motorcycle battery via a power outlet wire. The Type-C port is for manufacturer software debugging only and does not support powering the screen.

5. Connectivity

5.1. Wireless CarPlay Connection

To use wireless CarPlay, ensure your iPhone meets the following requirements:

- iPhone running iOS 6 or above.
- CarPlay system is enabled on your iPhone.
- iPhone's voice system (Siri) is turned on and enabled.

1. On the Carpuride W603B screen, open the CarPlay application.
2. On your iPhone, search for Bluetooth devices and connect to "carpuride-xxxx".
3. Confirm the connection on your iPhone by clicking "Allow" and "Use CarPlay".
4. The connection should now be successful, and CarPlay will display on the screen.

Figure 5: Apple CarPlay connection guide.

5.2. Wireless Android Auto Connection

To use wireless Android Auto, ensure your Android phone meets the following requirements:

- Phone supports 5GHz Wi-Fi.
- Phone running Android 11 or above.
- Android Auto app is installed and updated to the latest version.

1. On the Carpuride W603B screen, open the Android Auto application.
2. On your Android phone, find and select the connected devices.
3. Add a new device "carpuride-xxxx" and click "Pair".
4. The connection should now be successful, and Android Auto will display on the screen.

Figure 6: Android Auto connection guide.

5.3. BT Trans (Bluetooth Transmission)

BT Trans allows you to connect your Carpuride W603B to your smartphone and then to your Bluetooth helmet or headset for audio and calls.

1. Connect your smartphone to your Bluetooth helmet or headset.
2. Connect your smartphone to the Carpuride W603B via Bluetooth.
3. Enter CarPlay or Android Auto. Audio and calls will now be routed through your Bluetooth helmet or headset.

Note: Ensure your Bluetooth helmet or headset has a microphone for phone calls and voice controls.

Figure 7: BT Trans connectivity diagram.

5.4. Phone Compatibility

Before purchasing, verify your phone's compatibility with wireless CarPlay or Android Auto.
Incompatible Android Phone Models:

- OnePlus Nord 2T, OnePlus Nord CE2 5G, oppo CPH2161, oppo A16S, Oppo Reno 2, oppo RENO2 Z, Samsung S23, Samsung note 20, Samsung S20, Samsung m22, Samsung S23 Ultra, Galaxy A20 (model SM-A205g), Huawei p30, Huawei P40 Pro, Huawei P20 Pro, Huawei P20, Huawei P30 lite MAR-LX1A, Huawei Mate 20, Huawei Mate 20 pro, Huawei P smart 2019 - POT-LX1, Huawei nova 5t, Huawei MATE LITE 10, Honor 90, Xiaomi 11 lite, Xiaomi 12 pro, redmi 9, Xiaomi 9.
- Not perfectly compatible with Samsung Note series and S series.

Figure 8: Phone compatibility and requirements for CarPlay and Android Auto.

6. Operation

6.1. Touchscreen Interface

The 6.3-inch IPS touchscreen provides a clear and responsive interface for interacting with CarPlay or Android Auto. Navigate through applications, maps, and settings by touching the screen.

Figure 9: Dashboard view of the Carpuride W603B displaying navigation.

6.2. Wired Controller Functions

The included wired controller provides convenient access to essential functions without needing to touch the screen.

- **Cycle Button:**
  - Short press to answer an incoming call.
  - Press and hold for more than 5 seconds to power on/off the device.
  - When using Apple CarPlay, a short press allows you to toggle between the main screen and the current CarPlay interface.
  - Long press the home button for 5 seconds to lock the screen. This disables touch functionality, useful in heavy rain to prevent unintended screen changes.
- **Phone Button:** Short press to hang up a call.
- **Home Button:** (Refer to Cycle Button for CarPlay specific function).

Note: When connected to an Apple iPhone, answering a call via the cycle button may route audio through the phone instead of Bluetooth earphones. Adjust iPhone settings to output sound to connected Bluetooth earphones. For Android phones connected to the W603B, the cycle button does not support answering incoming calls.

Figure 10: Wired controller and its functions.

6.3. Voice Control

Utilize Siri or Google Assistant for hands-free control of navigation, music, and calls. Simply activate your phone's voice assistant and issue commands.

Figure 11: Voice control in action for navigation and music.

6.4. Automatic Brightness Adjustment

The light-sensing design automatically adjusts the screen brightness to optimize visibility in varying ambient light conditions, enhancing safety and readability.

Figure 12: Automatic screen brightness adjustment for optimal viewing.

7. Environmental Durability

The Carpuride W603B is engineered for robust performance in diverse environmental conditions:

- **IP67 Waterproof:** The device is fully protected against dust and can withstand immersion in water up to 1 meter for 30 minutes.
- **Temperature Resistance:** Designed to operate effectively in a wide temperature range from -20°C to 80°C.

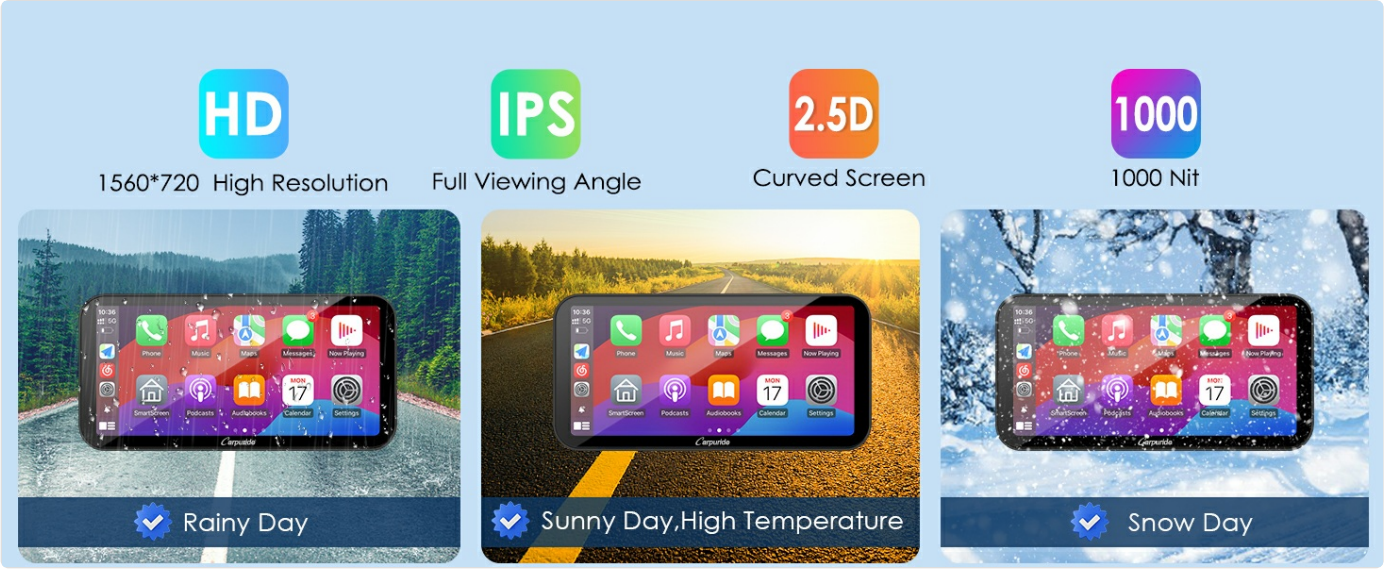

Figure 13: Carpuride W603B's performance in various weather conditions.

8. Specifications

Feature	Detail
Brand	CARPURIDE
Model Name	W603
Vehicle Service Type	Motorcycle
Screen Size	6.3 Inches
Special Features	Android Auto, Voice Control, Apple CarPlay, GPS Navigation, Touchscreen
Connectivity Technology	Bluetooth, Wi-Fi
Map Type	Street
Audio Output Mode	Stereo
Mounting Type	Handlebar Mount
Operating System	Android, iOS
Memory Storage Capacity	64 GB
Touchscreen Type	Capacitive
Display Type	LCD
Control Method	App, Touch, Voice
Supported Satellite Navigation System	GPS
Compatible Flash Memory Type	microSD
Item Dimensions L x W x H	16.7 x 2.5 x 8.3 centimeters

9. Troubleshooting

- **Android Auto Disconnection (Android 16):** If you experience Android Auto disconnection issues on Android 16, please update the device software to the latest version.
- **TF Card Usage:** The TF card slot is exclusively for updating the device's LOGO and software. It does not support local playback of music or videos. For software updates, use a small capacity card (4GB, 8GB, 16GB, or 32GB).
- **Type-C Port:** The Type-C port on Model 603 is solely for manufacturer software debugging during production and does not support powering the screen.

10. Warranty and Support

Carpuride offers a **12-month warranty** and dedicated technical support for the W603B GPS device. Customer satisfaction is a top priority, and the manufacturer aims to provide a 100% satisfactory solution within 24 hours for any questions or concerns. Custom startup logos are also available; you can send images to personalize your device's startup screen.

11. Product Video Overview

Watch this video for a visual overview of the Carpuride W603B Motorcycle CarPlay Android Auto Screen, demonstrating its features and use in various riding conditions.

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Video 1: Carpuride W603B Motorcycle CarPlay Android Auto Screen in action, showcasing its interface and functionality during motorcycle rides.