



[Manuals.plus](#) /

› [CARPURIDE](#) /

› Carpuride Smart Monitor Motorcycle Navigation System User Manual

CARPURIDE 502PRO-BS

Carpuride Smart Monitor Motorcycle Navigation System

MODEL: 502PRO-BS

User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Carpuride 502PRO-BS Smart Monitor. Designed for motorcycle use, this device offers wireless Apple CarPlay and Android Auto, handlebar dial control, and robust IP67 waterproofing, enhancing your riding experience with smart navigation, communication, and entertainment.



Figure 1.1: Carpuride 502PRO-BS Smart Monitor

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before using this product to ensure safe operation and prevent damage.

- Do not attempt to disassemble or modify the device.
- Ensure all connections are secure before riding.
- Always prioritize safe riding practices. Do not operate the device in a way that distracts you from the road.
- **Compatibility Warning:** Before purchasing, please verify compatibility with your specific motorcycle model and mobile phone.
- **BMW Motorcycle Compatibility:** This device supports original BMW wheel control functions on models such as R1300GS (R1300GS Adv), R1250GS (R1250GS Adv), R1200GS, R1200GS LC, R1200GS K50, R1200GS Adv, R1200RS, S1000XR. However, it is **not compatible** with R1200RT, R1250RT, K1600 GT, K1600 GTL, R1200GS (2019) for controller functions. For F900GS (F900GS Adv), F900XR,

F850GS (F850GS Adv), F800GS, F750GS, the controller function works but the rear brake warning light may remain on.

- **Android Phone Compatibility:** Most AQUOS mobile phones are incompatible. Samsung S-series, Note-series, Huawei P-series, Mate-series, Xiaomi series (e.g., 12 Pro, 11 lite, 9, 14T Pro, POCO X3 pro), and Oppo series (e.g., Reno 2, Reno2 Z, A16S) may also have compatibility issues.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Carpuride 502PRO-BS Smart Monitor Unit
- Mounting Bracket
- Power Cable
- Japanese User Manual (this document)
- Warranty Card



Figure 3.1: Package Contents

4. PRODUCT OVERVIEW

Familiarize yourself with the main components and features of your Carpuride Smart Monitor.

多機能一体化により、スマートフォンが解放され、安全な運転が実現されます



Figure 4.1: Front and Side View of the Monitor

4.1. Key Features

- **5-inch IPS Display:** High-brightness IPS screen for clear visibility in various lighting conditions.
- **Wireless CarPlay/Android Auto:** Seamless smartphone integration for navigation, music, and calls.
- **Handlebar Dial Control:** Compatible with certain BMW motorcycle models for intuitive operation.
- **IP67 Waterproof:** Designed to withstand rain, dust, and wind.
- **Bluetooth 5.2:** Stable and fast wireless connectivity.
- **Music Sharing:** Share audio with another headset in two-person mode.
- **Voice Control:** Use Siri or Google Assistant for hands-free operation.

5. SETUP AND INSTALLATION

Follow these steps to properly install your Carpuride Smart Monitor on your motorcycle.

5.1. Mounting the Device

The 502PRO-BS is designed for easy installation on motorcycles equipped with an original BMW navigation bracket (e.g., R1200GS, R1250GS, R1300GS, S1000XR).

1. Ensure your motorcycle has the genuine BMW navigation base.
2. Align the back of the 502PRO-BS unit with the BMW navigation base.
3. Slide the unit onto the base according to the instructions provided with your motorcycle's original bracket.
4. Once securely attached, the installation is complete and the unit is ready for use.



Figure 5.1: Installation Steps

5.2. Power Connection

Connect the provided power cable to the monitor and your motorcycle's power source. Ensure the connection is firm and waterproof.

6. OPERATING INSTRUCTIONS

This section details how to use the Carpuride Smart Monitor for various functions.

6.1. Initial Power On and Interface

Press and hold the power button to turn on the device. The main interface will display icons for Phone, Music, Maps, Messages, Waze, Car Home, Calendar, and Settings.

5インチ超高輝度IPS液晶ディスプレイを採用

高感度タッチ画面で、手袋付きでも操作が可能です。自動光感知機能付き、環境の明るさに合わせて画面を自動的に調整できます。



手袋がタッチ対応であることを確認してください

Figure 6.1: Screen Interaction and Brightness Adjustment

The monitor features an automatic light sensor that adjusts screen brightness according to ambient light conditions. Ensure your gloves are touch-compatible for screen interaction.

6.2. Wireless CarPlay & Android Auto

Connect your smartphone wirelessly to access navigation, music, and communication features.

- **Apple CarPlay:** Compatible with iOS 11 and iPhone 6 or later.
- **Android Auto:** Compatible with Android 11.0 or later.

Once connected, you can keep your phone safely in your pocket while enjoying navigation and music on the monitor. Voice guidance simplifies route confirmation, and real-time traffic information helps optimize your journey.

i-Play/A-Auto (BT オーディオ)



- (1)まず、携帯電話を CarPlayまたはAndroid Autoとの接続をしてください。
- (2)次に、「オーディオ」をクリックし、「i-Play/A-Auto」を選択します。
- (3)さらに、携帯電話をBluetoothデバイスに接続してオーディオを再生します。



ご注意：

- 1.i-Play/A-Autoのオーディオ出力モードを使用する場合は、携帯電話が以前の他のBluetooth接続記録を削除してください。
- 2.削除せずに接続を切断するだけなら、自動的に他のデバイスに再接続され、Carpurideに接続できなくなる可能性があります。



Figure 6.2: Multi-functional Display (Navigation, Voice Control, Music, Calls)

6.3. Voice Control

Utilize Siri or Google Assistant for hands-free control of navigation, calls, and music. Ensure your Bluetooth headset has a microphone for voice commands.

Your browser does not support the video tag.

Video 6.1: Product Overview and Features Demonstration

7. BLUETOOTH CONNECTIVITY

The Carpuride 502PRO-BS offers versatile Bluetooth connectivity options for single and dual headset use.

7.1. Single Mode (BT Trans Mode - Bluetooth 1)

After successfully connecting to CarPlay/Android Auto, the device can search for and connect to an intercom via Bluetooth, transmitting audio to the intercom.

- If using Bluetooth transmission, do not connect your mobile phone directly to the intercom. If it is connected, delete the pairing record.
- For navigation voice assistant broadcasts and call audio, ensure your rider's headset is connected to Bluetooth 1.

7.2. Two-Person Mode (Transceiver Mode and BT Trans Mode)

The device can search for and connect to two different intercoms simultaneously, allowing for music sharing and intercom functions between two riders up to 10 meters apart.

- Transceiver mode and BT Trans mode cannot be used simultaneously. Only one mode can be used at a time.
- When using i-Play/A-Auto (BT Audio) mode, only a single connection is supported.

Bluetooth送信(Bluetooth受信送信機能付き)

シングルモード(TB Transモード-Bluetooth 1)



オーディオ

(1) carplay/a-auto に接続したら、当社のマシンを通じてインカムのBluetoothを検索し、接続した後、音声はインカムを送信されます。

(2) Bluetooth送信を使用する場合は、携帯電話をインカムに接続しないでください。接続されている場合は、まずペアリング記録を削除してください。



2人モード(トランシーバモードとTB Transモード)



オーディオ

(1) 当社のマシンを通じて2つの異なるインカムを検索して、接続したら、2人間での音楽共有やインターコム機能を利用することができます。

(2) トランシーバモードとTB Transモードは同時に使用できません。一度に1つのモードしか使用できません。Bluetoothの有効距離は約10cmです

(3) ナビの音声アシスタントの放送と通話出力はBluetooth 1にのみ伝送されますので、運転手はBluetooth 1に接続するしてください。



Figure 7.1: Bluetooth Connection Modes

8. BMW WHEEL CONTROL INTEGRATION

The Carpuride 502PRO-BS features proprietary technology that supports the original vehicle wheel control on compatible BMW motorcycles. This allows for convenient operation without taking your hands off the handlebars.



Figure 8.1: BMW Wheel Control in Action

8.1. Control Functions

Using the original BMW wheel control, you can perform various operations:

- Map zoom in/out
- Music track selection (previous/next)
- Volume adjustment
- App switching
- View vehicle mileage and other original vehicle information.

BM原車車輪制御をサポート

弊社の502proBSがバイクと接続を確立した後、原車の車輪制御機能を使用して、地図の拡大縮小、音楽の上下曲、音の大きさの調節、appの切り替えなどの操作を実現するだけでなく、原車の走行キロ数などを見ることができます、運転をより便利になります。



Figure 8.2: BMW Wheel Control Button Layout

8.2. Button Functions by Mode

Function	K1	K2	K3	K4	K5	K6	K7
BM Motorcycle Meter Screen	Short press to return to the previous interface of the BM meter.				If cursor is not displayed, press K5 to activate UI cursor. (Cursor disappears after 5 seconds of inactivity).	Long press for 5 seconds to switch to NAV mode (enters Carpuride screen).	Switch to TFT mode (returns to BM display).
Carpuride Main Interface	Short press to return to the previous interface.	Press to confirm the selected item and enter.	Move cursor left to select required APP.	Move cursor right to select required APP.	Press K5 to move cursor up/down to select. Long press to switch. Press K2 to confirm.		
CARPLAY Mode	Press to return to the main interface.				In CarPlay mode, you do not need to press K5; use K1 to return to the previous operation page.		

Function	K1	K2	K3	K4	K5	K6	K7
A-AUTO Mode	Short press, (1) return to main interface.				In A-Auto mode, long press for 3 seconds to return the cursor to the previous operation page from the detailed operation page of the app.		
BT Mode	Short press, (1) return to main interface; (2) hang up call; (3) cancel call interface.	Short press, (1) play/pause music; (2) answer call; (3) confirm call interface.	Move cursor left, (1) previous song; (2) previous call interface.	Move cursor right, (1) next song; (2) next call interface.	In BT communication mode, press K5 to display the last 10 call records.		
SD Mode	Short press, (1) return to main interface; (2) cancel playlist.	Short press, (1) play/pause music; (2) confirm SD card playlist.	Move cursor left, (1) previous song; (2) move up playlist.	Move cursor right, (1) next song; (2) move down playlist.	In SD playback mode, press K5 to display the SD card playlist.		
Compass/Settings/Audio Output Mode	Short press to return to the main interface.		None				

Table 8.1: BMW Wheel Control Button Functions


Important Notes:

- To enable vehicle control functions, the Carpuride unit must be mounted on the original BMW bracket.
- Vehicle control settings vary by motorcycle model. Please refer to your original motorcycle's instruction manual for specific operations.

9. IP67 WATERPROOF PERFORMANCE

The Carpuride Smart Monitor is designed with IP67 waterproof, dustproof, and windproof capabilities, ensuring reliable performance in various outdoor conditions.

BM車輪制御機能の説明



K1 戻るボタン	K2 確認ボタン
K3 前の曲/左に選択ボタン	K4 次の曲/右に選択ボタン
K5 A-Autoモードでは、3秒長く押すと、アプリの詳細な操作ページからカーソルを前の操作ページに戻る（CarPlayモードでは、K5ボタンを押すことなく、K1ボタンを使用して前の操作ページに戻る）	
K6 5秒間長押しして、NAVモードに切り替えます（carpuride画面に入ります）	
K7 TFTモードに切り替え（BM画面表示に戻る）	

ご注意：
1.車輪制御機能を実現するためには、オリジナルのbmマウントにcarpurideのマシンを取り付けなければならない。
2.バイクによって車輪制御の設定が異なるので、オリジナルのバイク説明書を参照して操作してください。

Figure 9.1: All-Weather Performance

You can confidently enjoy your motorcycle rides regardless of the weather. This smart monitor also includes a convenient compass function for outdoor navigation, helping you stay oriented without worry.

10. TROUBLESHOOTING

This section addresses common issues you might encounter and provides solutions.

10.1. Connectivity Issues

- **Cannot connect to CarPlay/Android Auto:**
 - Ensure your smartphone's Wi-Fi and Bluetooth are enabled.
 - Check if your phone model is listed as incompatible in the Safety Information section (e.g., AQUOS, certain Samsung, Huawei, Xiaomi, Oppo models).
 - Delete previous Bluetooth pairing records on both the monitor and your phone, then attempt to reconnect.
 - Restart both the monitor and your smartphone.
- **Bluetooth audio issues:**
 - Ensure your headset is properly paired with the monitor (Bluetooth 1 for navigation/calls).
 - Verify that your headset is not simultaneously connected to your mobile phone if using BT Trans mode.
 - Check the effective range (approx. 10 meters) for Bluetooth connections.

10.2. Display Problems

- **Screen flickering or unresponsiveness:**

- If the screen flickers or becomes unresponsive, especially in warm conditions (e.g., above 24°C), this may indicate overheating. Ensure proper ventilation around the unit.
 - Consider operating in cooler environments or providing shade to the unit if possible.
 - Restart the device.
- **Screen not bright enough:**
 - The monitor has an automatic light sensor. Ensure the sensor is not obstructed.
 - Manually adjust brightness settings if needed.

10.3. BMW Wheel Control Not Working

- Ensure your motorcycle model is listed as compatible for wheel control in the Safety Information section.
- Verify that the Carpuride unit is correctly mounted on the original BMW navigation bracket.
- Refer to your motorcycle's manual for specific wheel control operations.

11. SPECIFICATIONS

Brand	CARPURIDE
Model Name	502PRO-BS
Screen Size	5 Inches
Display Type	Resistive Touch Screen
Connectivity Technology	Bluetooth
Map Type	Terrain
Compatible Vehicle Type	Motorcycle
Audio Output Mode	Bluetooth
Package Dimensions	18.1 x 13.3 x 5.9 cm
Item Weight	410 g
Origin	China
First Available Date	May 25, 2025

12. MAINTENANCE

To ensure the longevity and optimal performance of your Carpuride Smart Monitor, follow these maintenance guidelines:

- **Cleaning:** Use a soft, damp cloth to clean the screen and exterior. Avoid abrasive cleaners or solvents.

- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Connections:** Periodically check all cable connections for wear or damage. Ensure they are securely fastened.
- **Firmware Updates:** Carpuride provides software upgrade services. Check the official website or contact support for available firmware updates to ensure the best performance and compatibility.

13. WARRANTY AND SUPPORT

Carpuride is committed to providing high-quality products and excellent customer service.

13.1. Warranty Information

Your Carpuride Smart Monitor comes with a **12-month quality guarantee** from the date of purchase. Please retain your purchase receipt and the included warranty card for any warranty claims.

13.2. Customer Support

For any questions, technical assistance, or service requests, please contact Carpuride customer support. We strive to provide a convenient and comfortable driving experience through our dedicated after-sales service and free upgrade programs.



Figure 13.1: Carpuride Commitment