

## CARPURIDE W602BS Pro

# Carpuride W602BS Pro Carplay Screen for BMW Motorcycle - Instruction Manual

## 1. PRODUCT OVERVIEW

The Carpuride W602BS Pro is a dedicated CarPlay and Android Auto screen designed for specific BMW motorcycle models. It integrates seamlessly with your bike's existing systems, offering navigation, communication, and entertainment features directly on a durable, weather-resistant touchscreen display. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and a safe riding experience.

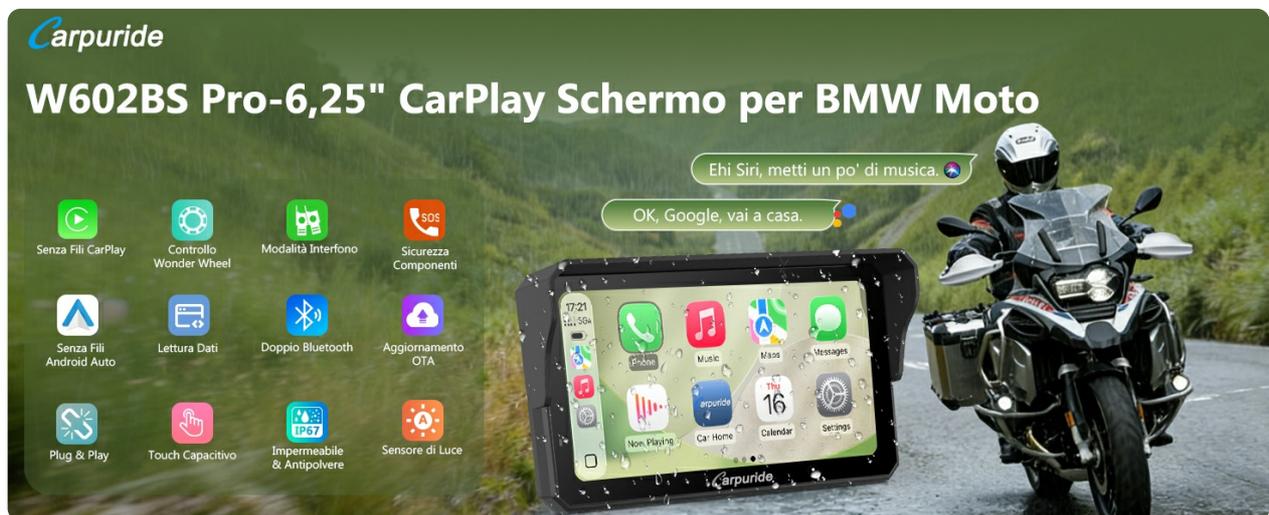


Image 1.1: Overview of Carpuride W602BS Pro key features including CarPlay, Android Auto, Wonder Wheel control, data reading, dual Bluetooth, intercom, IP67, SOS, OTA updates, automatic brightness, and offline playback.

## 2. COMPATIBILITY

### 2.1 Motorcycle Compatibility

- Designed for BMW Motorcycles: R1200GS, R1250GS, S1000XR, R1300GS.
- **Not suitable for:** BMW RT series, K1600 series, and R1250 GS 2019 models.
- Requires the motorcycle to have the native BMW control wheel and the original BMW navigation base.

- For tire pressure monitoring (TPMS) data, your motorcycle must have TPMS pre-installed.

## 2.2 Smartphone Compatibility

- **Apple CarPlay:** Requires iPhone with iOS 13 or later.
- **Android Auto:** Requires Android phone with Android 11 or later, supporting 5 GHz Wi-Fi.
- **Note:** Not fully compatible with Samsung Note and S series, Huawei, and Xiaomi phones.
- Not all apps are available on CarPlay/Android Auto; availability depends on agreements with Apple and Google.

### BT Trans(Connessione Singola/Doppia)



Apple CarPlay  
Android Auto





Carpuride





1  
2

1. Assicurati di disconnettere ed eliminare i record di connessione dell'auricolare Bluetooth dal tuo telefono.
2. Fai clic su "Uscita audio" e seleziona la modalità "BT Trans". Accendi l'auricolare Bluetooth e assicurati che sia rilevabile.
3. Fai clic su "Ricerca BT" per cercare, quindi fai clic su "Disconnetti" per connettere l'auricolare Bluetooth. Connetti BT 1 e BT 2. Regola il volume sul dispositivo.
4. La connessione simultanea di BT 1 e BT 2 consente la condivisione della musica, ma le chiamate e le trasmissioni dell'assistente vocale verranno trasmesse solo a BT 1. Quando colleghi un solo auricolare Bluetooth, connettiti a BT 1.

Image 2.1: Important compatibility notes for BMW motorcycles and smartphone requirements before purchase.

## 3. PACKAGE CONTENTS

The Carpuride W602BS Pro package includes the following items:

- 1x Carpuride W602BS Pro Motorcycle Car Radio
- 1x User Manual (PDF versions in multiple languages are available)

**Note:** A 64 GB TF card for offline playback is not included and must be purchased separately.



### OTA Aggiornamento

La più recente tecnologia OTA (Over-the-Air) consente di aggiornare facilmente il dispositivo online tramite Wi-Fi, consentendo aggiornamenti firmware istantanei e mantenendo il dispositivo sempre aggiornato.

Image 3.1: Diagram showing the device dimensions and included items in the packing list.

## 4. SETUP AND INSTALLATION

The W602BS Pro features a plug-and-play design for easy installation on BMW motorcycles equipped with an original navigation base.

## 4.1 Mounting the Device

1. Locate the original BMW navigation base on your motorcycle.
2. Align the Carpuride W602BS Pro screen with the base.
3. Gently slide and clip the screen onto the original base until it locks securely into position. No complex wiring is required.

## 4.2 Compass Calibration

The device features a waterproof Type-C port for convenient compass calibration.

- Connect a 5V 3A power supply to the Type-C port.
- Follow the on-screen prompts to calibrate the compass. This process does not require additional accessories.



Image 4.1: Visual guide for installing the Carpuride W602BS Pro onto the BMW navigation base and Type-C port for compass calibration.

## 5. OPERATING INSTRUCTIONS

### 5.1 Wireless CarPlay and Android Auto Connection

Connect your smartphone wirelessly to access navigation, calls, music, and messages.

#### For Apple CarPlay:

1. On your iPhone, enable Wi-Fi and Bluetooth.
2. On the Carpuride screen, navigate to the CarPlay icon and select it.
3. On your iPhone, go to Bluetooth settings, find 'Carpuride-xxxx', and connect. Allow contacts and favorites sync if prompted.
4. Confirm connection on both devices.



Image 5.1: Step-by-step guide for connecting an iPhone to the Carpuride W602BS Pro for Apple CarPlay functionality.

### For Android Auto:

1. On your Android phone, enable Wi-Fi and Bluetooth.
2. On the Carpuride screen, navigate to the Android Auto icon and select it.
3. On your Android phone, go to Bluetooth settings, find 'Carpuride-xxxx', and pair. Allow access to messages and activate Android Auto if prompted.
4. Confirm connection on both devices.



Image 5.2: Step-by-step guide for connecting an Android phone to the Carpuride W602BS Pro for Android Auto functionality.

## 5.2 Native Wonder Wheel Control

Operate the W602BS Pro seamlessly using your BMW motorcycle's native Wonder Wheel. The functionality of the Wonder Wheel may vary depending on your BMW motorcycle model.

- **K1 (Return Button):** Exit current function, return to previous level.
- **K2 (Confirm Button):** Confirm to enter the current cursor function of the Wonder Wheel.
- **K3 (Scroll Up):** Rotate upwards, the current cursor moves to the previous icon.
- **K4 (Scroll Down):** Rotate downwards, the current cursor moves to the next icon.
- **K5 (Long Press for 3s in Android Auto):** Return the cursor from the detailed APP operation page to the previous operation page. (In CarPlay, use K1 to exit the previous operation screen interface without pressing K5).

- **K6 (Long Press for 5s):** Switch 'TFT' mode to 'NAV' mode.
- **K7 (Long Press for 5s):** Switch 'NAV' mode to 'TFT' mode.



Image 5.3: Detailed explanation of the BMW Wonder Wheel controls (K1-K7) and their functions with the Carpuride W602BS Pro.

### 5.3 Audio Modes and Dual Bluetooth Connection

The W602BS Pro supports two audio output modes and simultaneous connection of two Bluetooth headsets/helmets.

#### BT Trans Mode (Dual Bluetooth):

This mode allows two Bluetooth headsets/helmets to be connected simultaneously for shared music and navigation synchronization between rider and passenger.

1. Ensure any previous Bluetooth connections on your headsets are disconnected and cleared.
2. On the Carpuride screen, go to "Audio Output" and select "BT Trans" mode.
3. Click "Search BT" to find and connect your first Bluetooth headset (Bluetooth 1). Repeat for the second headset (Bluetooth 2).
4. Adjust the volume on the device.

**Note:** Voice assistant commands and phone call audio are transmitted only to Bluetooth 1. The main rider should connect to Bluetooth 1. When intercom mode is enabled, music will be muted and will resume automatically when intercom mode is disabled.



Image 5.4: Instructions for connecting two Bluetooth headsets in BT Trans mode for shared audio and intercom.

### iPlay/Auto Mode (Bluetooth Audio):

This mode uses your phone to connect to a single Bluetooth headset for audio playback.

1. Ensure any previous Bluetooth connections on your headset are disconnected and cleared from the Carpuride screen.
2. Use your phone to connect CarPlay or Android Auto to the Carpuride screen.
3. On the Carpuride screen, go to "Audio Output" and select "iPlay/Auto" mode.
4. Use your phone to connect your Bluetooth headset for audio playback. You can adjust the volume on your phone.



Image 5.5: Instructions for connecting a single Bluetooth headset in iPlay/Auto mode for audio playback.

## 5.4 Intercom Function

The intercom function allows instant communication between rider and passenger within a 10m range.

1. First, ensure both rider and passenger Bluetooth headsets are connected in BT Trans mode (Bluetooth 1 and Bluetooth 2).
2. On the Carpuride screen, click the intercom icon on the homepage to enable intercom mode.
3. You can now make intercom calls between Bluetooth 1 and 2.
4. To disable, click the intercom icon again. Music will resume automatically.

**Note:** Both headsets must have a microphone and support intercom functionality.



Image 5.6: Visual representation of the intercom function for communication between rider and passenger, with a maximum range of 10m.

### 5.5 SOS Mode (Emergency Function)

The SOS mode automatically calls for help in critical situations by detecting sudden changes in vehicle tilt and acceleration.

1. **Set Emergency Contact:** Go to Settings > System > SOS on the CarPlay screen and set an emergency contact number.
2. Ensure CarPlay/Android Auto is connected.
3. If the device detects a sudden change in the vehicle's tilt angle and acceleration, an SOS window will automatically appear.
4. After a 10-second countdown, your phone will dial the preset emergency number. You can cancel the call by tapping the countdown number before it ends.



Image 5.7: Explanation of SOS mode, how to activate it, and its automatic emergency call feature.

### 5.6 Integrated Sensors: Compass, Barometer, and Inclinometer

The W602BS Pro includes integrated sensors to enhance your riding awareness and safety.

- **Compass:** Helps you stay on course and avoid getting lost.
- **Barometer:** Monitors real-time atmospheric pressure changes, useful in mountainous areas.
- **Inclinometer:** Monitors the vehicle's tilt angle in real-time, helping assess safety limits and prevent side

falls.



Image 5.8: Visual display of the integrated compass, inclinometer, and barometer functions, providing real-time environmental and vehicle data.

## 5.7 Reading Motorcycle Data

The device can display various motorcycle data points for a comprehensive riding overview.

- **Data displayed:** Speed, engine RPM, mileage, engine temperature, accelerator position, hand/foot brake indicator.
- **Tire Pressure Monitoring (TPMS):** Only available if your BMW motorcycle has TPMS pre-installed.

### Portatile Carplay

Non ci sono regolazioni della modalità giorno e notte, e nessuna regolazione della luminosità.  
È riflettente durante il giorno e lo schermo non può essere visto chiaramente.



Troppo luminoso di notte, irrita gli occhi.

### Luce Sensore Design

Il design con sensore di luce consente la regolazione automatica della luminosità dello schermo in base alla luminosità ambientale, garantendo la protezione degli occhi e promuovendo condizioni di guida più sicure.

Giorno Notte

Sensibile alla luce



Guida in sicurezza e proteggi i tuoi occhi.

Image 5.9: Examples of motorcycle driving data, including speed, RPM, and other indicators, displayed on the screen.

## Utilizzo di Apple CarPlay

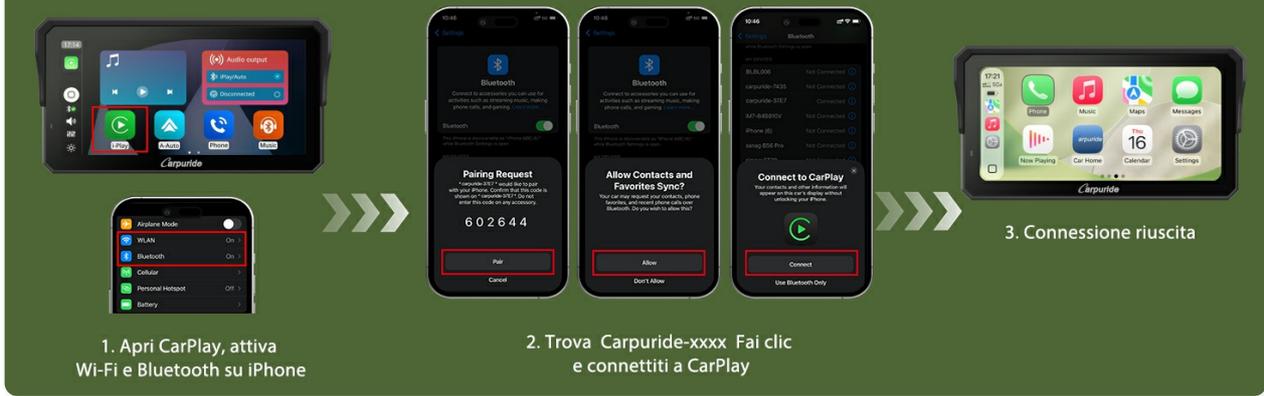


Image 5.10: Display of tire pressure data (TPMS) on the Carpuride W602BS Pro, requiring pre-installed TPMS on the BMW motorcycle.

## 5.8 Light Sensing

The integrated light sensor automatically adjusts the screen brightness based on ambient light conditions, ensuring clear visibility and reducing eye strain for improved riding comfort and safety.



Image 5.11: Illustration of the light sensor design, showing automatic brightness adjustment for day and night riding conditions.

## 6. MAINTENANCE

### 6.1 OTA (Over-the-Air) Updates

Keep your device up-to-date with the latest features and improvements through OTA firmware updates.

- Connect the device to a Wi-Fi network.
- Navigate to the update section in the device settings.
- Follow the on-screen instructions to download and install the latest firmware.
- No professional assistance or computer knowledge is required.

### CarPlay

**Per utilizzare senza fili CarPlay, devi soddisfare i seguenti requisiti:**

- Un iPhone con iOS 6 o versione successiva.
- Una versione di sistema iPhone richiede iOS 13 e versione successiva.
- Richiede inoltre che il sistema CarPlay e il sistema vocale dell'iPhone siano attivati.
- Controlla se Siri è abilitato.



### Android Auto

**Per utilizzare senza fili Android Auto, devi soddisfare i seguenti requisiti:**

- Un telefono che supporta Wi-Fi a 5 GHz e che esegue Android 11 o versione successiva.
- Non è possibile attivare la funzione VPN sul telefono cellulare.
- Un telefono che supporta Android Auto, Google Maps, Google, l'app Google Voice, deve aggiornare all'ultima versione.
- Prima dell'acquisto, assicurati che il tuo telefono supporti senza fili Carplay o senza fili Android Auto.



### Incompatibili Telefono Modelli

- Serie Samsun (Samsun S20,Samsun S23,Samsun Note 20, ecc).
- Serie Huawei (10 Pro, P30 lite MAR-LX1A, Mate 20,Mate 20 Pro, Mate lite 10,P40 Pro, P40, P30, P30 Pro, ecc).
- Serie Xiaomi (Xiaomi 12 Pro, Xiaomi 11 lite, Xiaomi 9,Xiaomi 14T Pro, Xiaomi Poco X3 pro, ecc).
- Serie Oppo (Oppo Reno 2, Oppo RENO2 Z,A16S, ecc).
- Galaxy A20 (Modello SM-A205g), Redmi 9,M22..P smart 2019 - POT-LX1, Nova 5t, ecc.



Image 6.1: Explanation of the OTA (Over-the-Air) update process, highlighting easy firmware updates via Wi-Fi.

## 6.2 IP67 Durability

The Carpuride W602BS Pro is designed with IP67 waterproof and dustproof protection, ensuring reliable operation in various weather conditions.

- Operates perfectly in temperatures ranging from -20°C to 70°C.
- Resistant to rain, dust, and extreme temperatures, allowing for worry-free riding.



### SOS Modalità

Preparati in anticipo e goditi un viaggio sicuro

**Come Attivarla?**

1. Impostazioni - Sistema - SOS, attiva la modalità SOS e imposta un numero di contatto di emergenza.
2. Connettiti a CarPlay/Android Auto e goditi il viaggio.

Image 6.2: Visual demonstration of the IP67 durable design, showcasing its resistance to rain, cold, and heat.

## 7. TROUBLESHOOTING

- **Device not powering on:** Ensure the device is correctly clipped into the original BMW navigation base and receiving power.
- **CarPlay/Android Auto not connecting:**
  - Verify your smartphone meets the compatibility requirements (iOS 13+ for iPhone, Android 11+ with 5GHz Wi-Fi for Android).
  - Check if your phone model is listed as incompatible (e.g., some Samsung Note/S series, Huawei, Xiaomi).
  - Ensure Wi-Fi and Bluetooth are enabled on your phone and the device.
  - Clear previous Bluetooth connections and try pairing again.

- **No tire pressure data:** Confirm that your BMW motorcycle has TPMS (Tire Pressure Monitoring System) pre-installed. The W602BS Pro cannot provide this data if TPMS is not present on the bike.
- **Type-C port not charging phone:** The Type-C port is designed for compass calibration and power input only; it does not support charging mobile phones or motorcycle batteries.
- **Intercom issues:**
  - Ensure both rider and passenger headsets have microphones and support intercom functionality.
  - Verify both headsets are connected in BT Trans mode.
  - Note the effective range of the intercom is approximately 10m.
- **Voice assistant audio only on Bluetooth 1:** This is by design. Voice assistant commands and phone call audio are routed exclusively to Bluetooth 1. Ensure the main rider connects to Bluetooth 1.

## 8. SPECIFICATIONS

Feature	Specification
Model Name	W602BS Pro
Screen Size	6.25 Inches
Display Type	HD IPS Touchscreen
Resolution	1080*540
Frame Rate	60 FPS
Max Brightness	1000 nits
Color Depth	65K Colors
Connectivity Technology	Bluetooth, Wi-Fi
Special Features	Wireless Apple CarPlay & Android Auto, Dual Bluetooth, Intercom Function, Native Wonder Wheel Control & Data Reading, OTA Updates, Voice Control, IP67 Waterproof Touchscreen, SOS Mode, Integrated Compass, Barometer, Inclinometer, Light Sensor
Vehicle Service Type	Motorcycle (R1200GS, S1000XR, R1300GS, R1250GS)
Mounting Type	On the steering wheel (BMW original navigation base)
Operating Temperature	-20°C to 70°C
Product Dimensions	9.2 x 3.2 x 16.8 cm

Product  
Weight

560 grams



## OTA Aggiornamento

La più recente tecnologia OTA (Over-the-Air) consente di aggiornare facilmente il dispositivo online tramite Wi-Fi, consentendo aggiornamenti firmware istantanei e mantenendo il dispositivo sempre aggiornato.

Image 8.1: Visual summary of the display specifications, including resolution, frame rate, brightness, and color depth.

## 9. WARRANTY AND SUPPORT

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For warranty information, please refer to the specific terms and conditions provided at the time of purchase or contact Carpuride customer support. This product includes a user manual, and additional PDF versions in multiple languages are available for download.

For technical support or further assistance, please visit the official Carpuride website or contact their customer service department through the contact information provided with your product documentation.