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CARPURIDE W602S Pro

CARPURIDE W602S Pro Motorcycle CarPlay Screen User Manual

Model: W602S Pro
Brand: CARPURIDE

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your CARPURIDE W602S Pro Motorcycle CarPlay Screen. Please read this manual thoroughly before using the device to ensure proper functionality and safety. The W602S Pro is designed to enhance your riding experience with wireless CarPlay and Android Auto, a waterproof touchscreen, and advanced safety features.

Package Contents

Verify that all items listed below are included in your package:

- 1 x W602S Pro Motorcycle Stereo
- 1 x BM05 Bracket with two metal keys
- 1 x Wired Controller
- 1 x Ring Mount
- 1 x Square Mount
- 1 x Power Cable
- 1 x USB Cable
- 1 x User Manual (PDF versions in multiple languages are available)



Figure 1: Contents of the Carpuride W602S Pro package.

Setup and Installation

The Carpuride W602S Pro features a plug-and-play design with the updated BM05 bracket for easy installation and removal.

Mounting the Device

The device can be mounted using either the ring mount or the square mount, suitable for most motorcycle models. The BM05 bracket allows for quick attachment and detachment of the screen using the provided metal key.



Figure 2: Quick-release design of the BM05 bracket.



Figure 3: Handlebar mounting suitable for most motorcycle models.

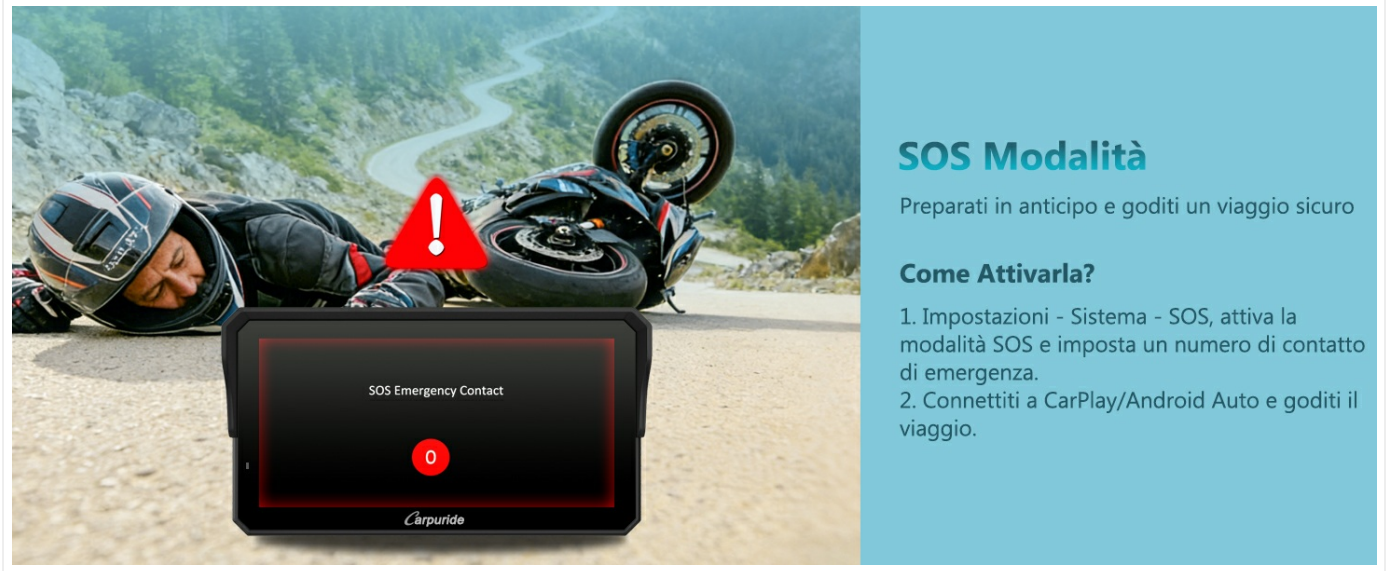


Figure 4: Installation steps for the BM05 bracket.

Power Connection Options

The W602S Pro offers three power connection methods:

1. **Direct to Motorcycle Battery:** Connect the power cable directly to the motorcycle battery. This provides 12V and 1A output.
2. **Motorcycle USB Port:** Connect the USB cable directly to the motorcycle's USB port. Ensure the USB port provides 5V and 3A or higher output.
3. **Type-C Port with Power Bank:** Use a high-power bank (5V 3A) connected to the device's Type-C port. This allows for bidirectional charging.

Note: Insufficient voltage or current may cause the CarPlay screen to restart, flicker, or shut down repeatedly. The device itself does not contain a battery and cannot be used as a power source; bidirectional charging is only supported when the device is powered by a motorcycle battery.



Figure 5: Bidirectional charging functionality.



Figure 6: Installation wiring diagram.

Operating Instructions

Wireless CarPlay and Android Auto

The W602S Pro supports wireless Apple CarPlay and Android Auto. Connect your smartphone to the touchscreen via Bluetooth to access navigation, calls, music, and messages using voice assistants like Siri or Google Assistant.

- **For Apple CarPlay:** iPhone must run iOS 12 or later (iOS 13 or later for some features). Ensure Siri is enabled.
- **For Android Auto:** Android phone must support 5GHz Wi-Fi and run Android 11 or later. Google Maps and Google Voice app should be updated to the latest version.

Note: Not all apps are available on CarPlay/Android Auto. Compatibility depends on agreements with Apple and Google. Android Auto does not support automatic night mode and cannot synchronize time with the device's home screen.



Figure 7: Apple CarPlay connection guide.

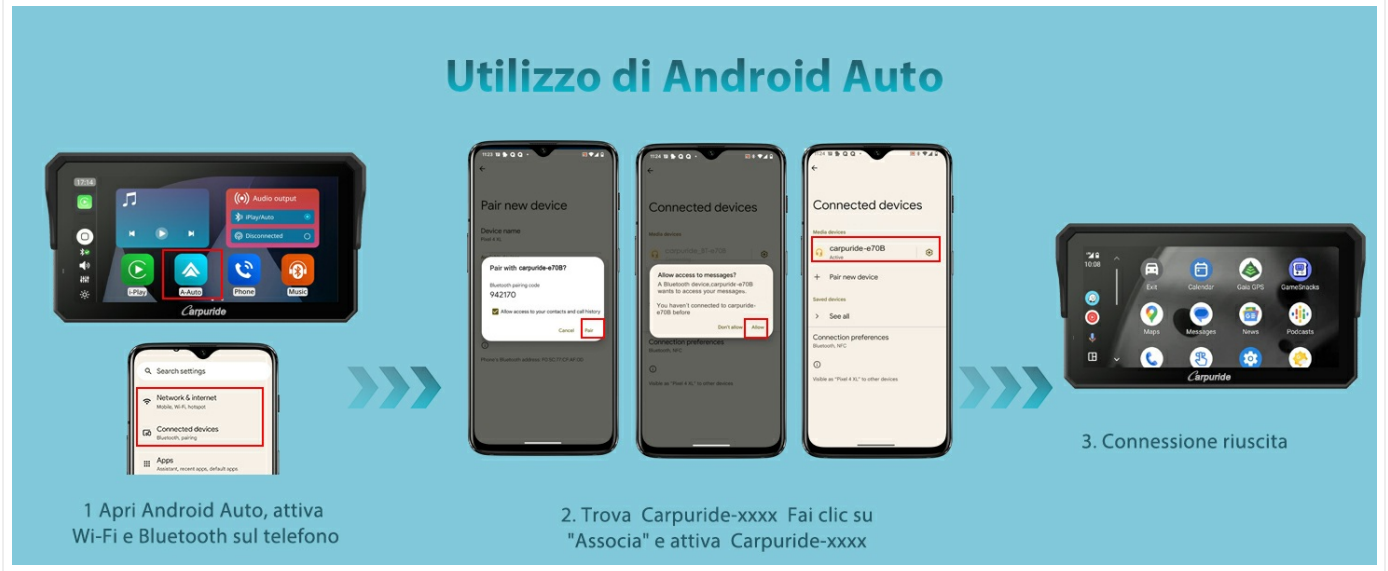


Figure 8: Android Auto connection guide.



Figure 9: CarPlay and Android Auto compatibility details.

Dual Bluetooth and Intercom Function

The W602S Pro features updated dual Bluetooth technology, supporting two audio output modes: iPlay/Auto and BT

Trans. In BT Trans mode, two Bluetooth headsets/helmets can be connected simultaneously for shared music and synchronized navigation between rider and passenger.

To use the Intercom Function:

1. In BT Trans mode, connect Bluetooth 1 and Bluetooth 2.
2. Click the intercom icon on the homepage to enable intercom mode.
3. Intercom calls can then be made between Bluetooth 1 and 2. The effective range is approximately 10m, primarily for instant communication between rider and passenger.

Note: Ensure both rider and passenger Bluetooth headsets have microphones and support intercom functionality. When intercom mode is enabled, music will be muted and will resume automatically when intercom mode is deactivated. Voice assistant commands and phone call audio are transmitted only to Bluetooth 1; it is recommended that the main rider connects to Bluetooth 1.



Figure 10: Music sharing and instant intercom function.



Figure 11: BT Trans connection mode.



Figure 12: iPlay/Auto (Bluetooth Audio) mode.

Wired Controller

The included wired controller allows for easy operation without removing your hands from the handlebars. You can answer calls, turn the screen on/off, and switch between home pages and CarPlay interfaces with a simple button press.
Note: This product does not support Wonder Wheel control and does not include a tire pressure sensor.



Figure 13: Wired controller functions.

SOS Safety Components

The W602S Pro integrates four safety components: SOS mode, compass, barometer, and inclinometer, providing solutions for mountain biking and emergencies.
To enable SOS Mode:

1. Enable SOS mode in the CarPlay screen settings and pre-set emergency contacts.
2. Ensure CarPlay/Android Auto is connected.
3. If the device detects a sudden change in vehicle tilt angle and acceleration, an SOS window will automatically appear. After a 10-second countdown, the phone will dial the pre-set emergency number.



Figure 14: SOS Mode activation and display.



Figure 15: Integrated safety components: compass, barometer, and inclinometer.

Light Detection and OTA Updates

The integrated light sensor automatically adjusts screen brightness based on ambient light, ensuring clear navigation and reducing eye strain. The latest Over-the-Air (OTA) technology allows for easy online firmware updates via Wi-Fi, keeping your device up-to-date with the latest improvements.



Figure 16: Light sensor design for optimal visibility.

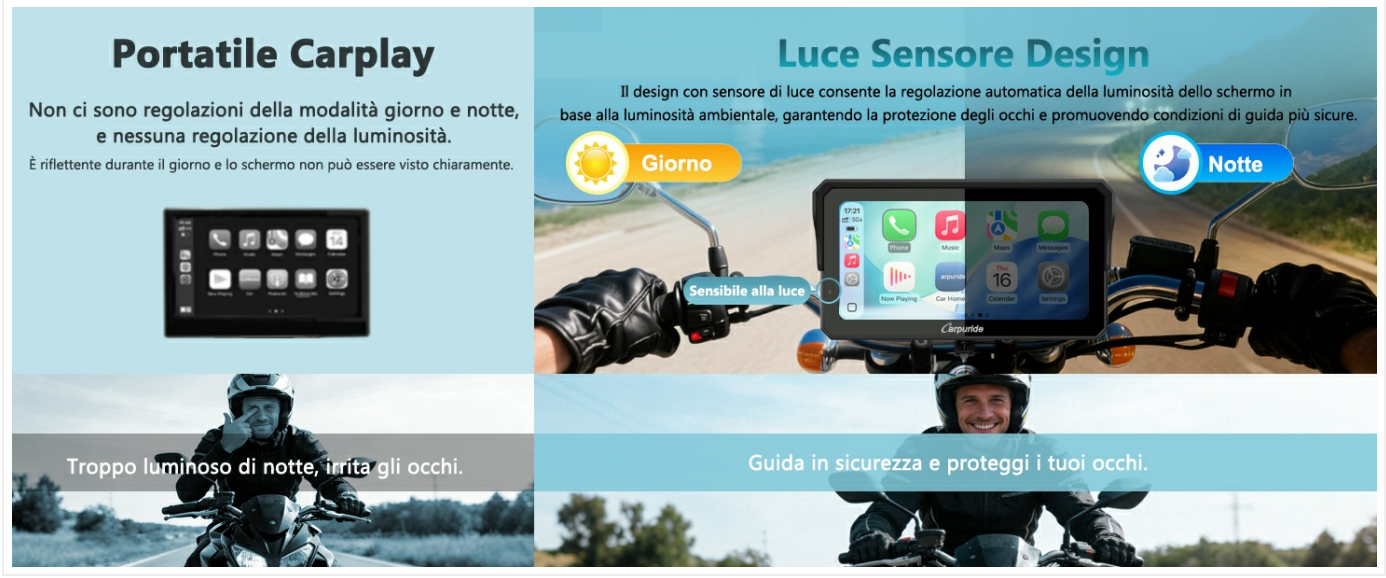


Figure 17: OTA update process.

Maintenance

Waterproof and Dustproof Design

The Carpuride W602S Pro features an IP67 waterproof and dustproof rating, ensuring reliable operation in various weather conditions, including rain, heat, and snow. It functions perfectly within a temperature range of -20°C to 70°C.



Figure 18: IP67 durable design for all weather conditions.

To maintain the device's performance, ensure all ports are securely covered when not in use, especially in wet or dusty environments. Clean the touchscreen with a soft, damp cloth as needed.

TROUBLESHOOTING

- **Screen restarts, flickers, or shuts down:** This may be caused by insufficient voltage. Ensure your power source (motorcycle battery or USB port) provides adequate voltage (12V 1A for battery, 5V 3A or higher for USB).
- **Blurry map display:** Perform an OTA update to ensure the latest software and map data are installed.
- **CarPlay/Android Auto connection issues:**
  - Verify your smartphone meets the minimum OS requirements (iOS 12+ for Apple, Android 11+ with 5GHz Wi-Fi for Android).
  - Ensure Wi-Fi and Bluetooth are enabled on your phone.
  - Check for known compatibility issues with certain phone models (e.g., some Samsung Note/S series, Huawei, Xiaomi models may not be fully compatible).

- **Intercom function not working:** Ensure both connected Bluetooth headsets have microphones and support intercom functionality. Remember that music is muted during intercom use.

Specifications

Brand	CARPURIDE
Model Name	W602S Pro
Vehicle Service Type	Motorcycle
Screen Size	6.25 Inches
Display Resolution	1080*540
Frame Rate	60 FPS
Max Brightness	1000 nits
Special Features	Wireless Apple CarPlay & Android Auto, BM05 Plug-and-Play Bracket, Bidirectional Charging, Wired Controller, Dual Bluetooth, Intercom Function, OTA Updates, Waterproof Touchscreen, SOS Mode, Compass, Barometer, Inclinometer, Light Sensor
Connectivity Technology	Bluetooth, Wi-Fi
Map Type	Streets
Audio Output Mode	Stereo
Mounting Type	Handlebar Mount
Storage Capacity	64 GB (TF card not included)
Screen Type	LCD, Capacitive Touchscreen
Compatible Devices	Bluetooth Headset, Bluetooth Helmet, Smartphone
Control Method	App, Button, Touch, Voice
Batteries Included	No

Supported Satellite Navigation	GPS
Dimensions (L x W x H)	9.2L x 3.2W x 16.8H cm

Warranty

The CARPURIDE W602S Pro comes with a**1-year product warranty** from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

Support

For technical assistance, troubleshooting, or warranty inquiries, please contact CARPURIDE customer support. Refer to the official CARPURIDE website or the contact information provided in your product packaging for the most up-to-date support channels.
Regularly check for OTA updates to ensure your device has the latest features and performance enhancements.

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