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> [ATOTO S8 PN Android Car Stereo User Manual for BMW 3 Series E90 E91 E92 E93 \(2008-2012 CIC System\)](#)

ATOTO S8 PN

ATOTO S8 PN Android Car Stereo User Manual

FOR BMW 3 SERIES E90 E91 E92 E93 (2008-2012) WITH CIC SYSTEM

1. INTRODUCTION

This manual provides detailed instructions for the installation, setup, and operation of your ATOTO S8 PN Android Car Stereo. This unit is specifically designed for BMW 3 Series E90, E91, E92, and E93 models manufactured between 2008 and 2012, equipped with the original CIC 4 PIN LVDS system. It integrates advanced features while retaining the original vehicle functionalities.



The ATOTO S8 PN Android Car Stereo seamlessly integrated into a BMW 3 Series dashboard.

1.1 Compatibility Check

Ensure your vehicle is compatible with the ATOTO S8 PN unit. This unit is compatible only with BMW 3 Series E90, E91, E92, E93 models from 2008-2012 that have the CIC original 4 PIN LVDS system. Please verify the following three features in your vehicle before installation:

- **iDrive UI:** Confirm your iDrive user interface matches the CIC system.
- **Start/Stop Switch:** Verify the type of Start/Stop switch in your vehicle.
- **LVDS Connector:** Check for a 4-pin LVDS connector at the rear of your OEM display.

For **CIC** system only, not NBT/CCC/EVO

**⚠ Before buying, check for all three:
iDrive UI, Start/Stop Switch, LVDS Connector**

Fits BMW 3 Series E90 E91 E92 E93 2008-2012 with CIC original 4 PIN LVDS system

Match the three CIC features

Visual guide for identifying the correct CIC system features for compatibility.

2. KEY FEATURES

- **Original System Retention:** Designed to integrate with your BMW's original system, preserving all factory functions including iDrive, steering wheel controls, and audio.
- **12.3-inch HD IPS Screen:** Features a high-definition 1920x720p IPS touchscreen for clear visuals and responsive interaction.

- **Wireless Connectivity:** Supports wireless Apple CarPlay and Android Auto for seamless smartphone integration.
- **DriveChat AI Co-Pilot:** An AI assistant powered by ChatGPT for hands-free assistance and information while driving.
- **Multiple Internet Options:** Offers 4G LTE, Wi-Fi, USB tethering, and Bluetooth for versatile internet access.
- **Dual Bluetooth:** Allows for simultaneous connection of multiple Bluetooth devices.
- **GPS Tracking (TrackHU):** Real-time GPS tracking with a 5-second refresh rate, OsmAnd's 4-satellite positioning, track playback, and geofence alerts.
- **Digital Sound Processor (DSP):** Enhances audio experience with DTS functionality and a 32-band equalizer for sound customization.
- **Split Screen Functionality:** Enables multitasking by displaying two applications simultaneously.



Retains All Original Vehicle Functions



Original Car Stereo System 



Original Backup Camera System 



Original CD Player 



Original Steering Wheel Control and Physical Controls 



Original Audio System 



Original iDrive Knob Control 

The ATOTO S8 PN unit retains all original vehicle functions after installation.

Tap "Car" to easily switch



Original idrive system

Android system



Tap "Theme" to choose your preferred theme



Multiple themes inspired by various car models. Switch between styles to match your mood. If you prefer, you can return to the original theme.

Easily switch between the Android system and your original iDrive system, and customize themes.



DriveChat - Your AI Co-Pilot



Powered by ChatGPT

Hi Piko, How do the external and internal circulation modes in a car work, and when should each be used?



External Circulation: In this mode, fresh air is drawn from outside the car and circulated inside ...

Hi Piko, I am now driving to the Grand Canyon, can you tell me something interesting about the Grand Canyon?



Sure! The Grand Canyon is about 277 miles long and over a mile deep ...

That's amazing. Do you know if there are any Native American tribes associated with the Grand Canyon?



Absolutely! The Grand Canyon is sacred to many Native American tribes, including ...

Switch Chatbots

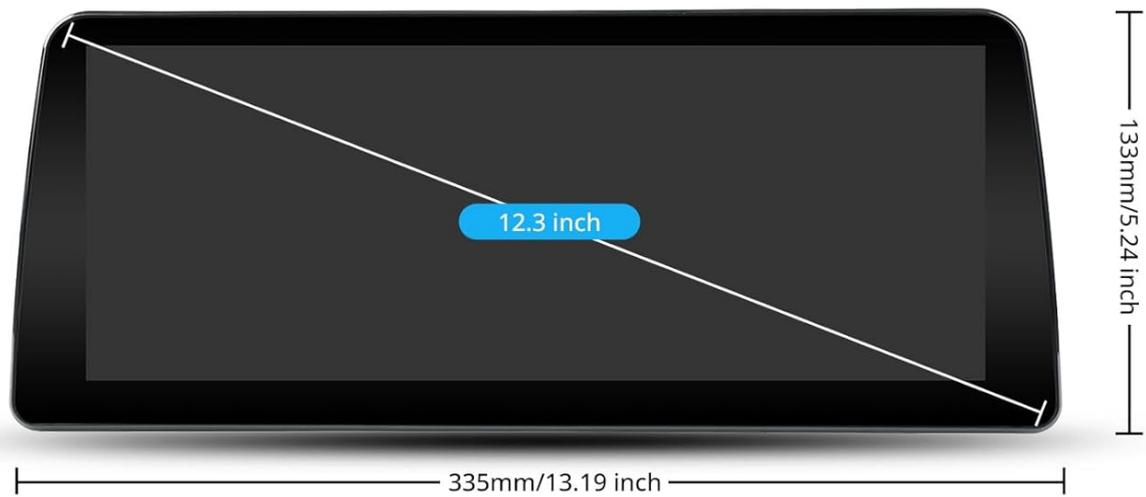


DriveChat AI Co-Pilot provides conversational assistance for various tasks and information.

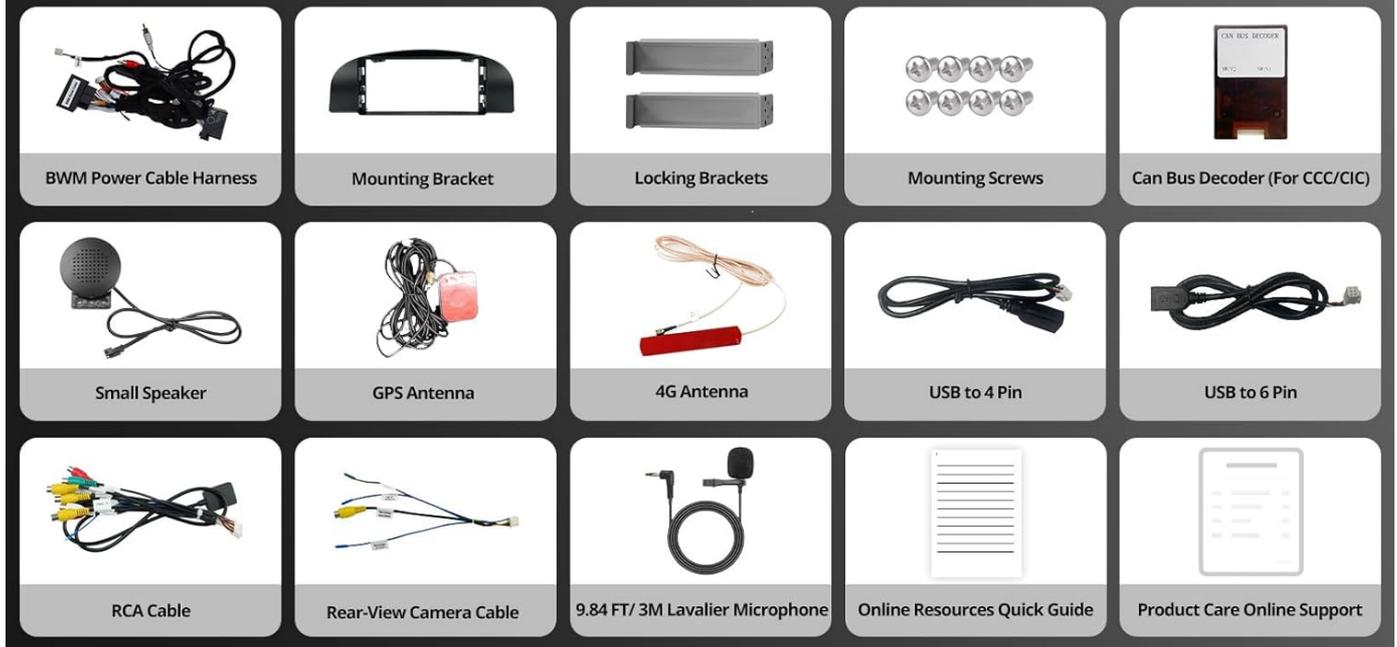
3. PACKAGE CONTENTS

The following items are included in your ATOTO S8 PN package:

Packing List



Accessories



Detailed view of the ATOTO S8 PN unit and its included accessories.

- 12.3-inch Display Unit
- BMW Power Cable Harness
- Mounting Bracket
- Locking Brackets
- Mounting Screws
- CAN Bus Decoder (for CCC/CIC)
- Small Speaker
- GPS Antenna
- 4G Antenna
- USB to 4 Pin Cable
- USB to 6 Pin Cable
- RCA Cable
- Rear-View Camera Cable

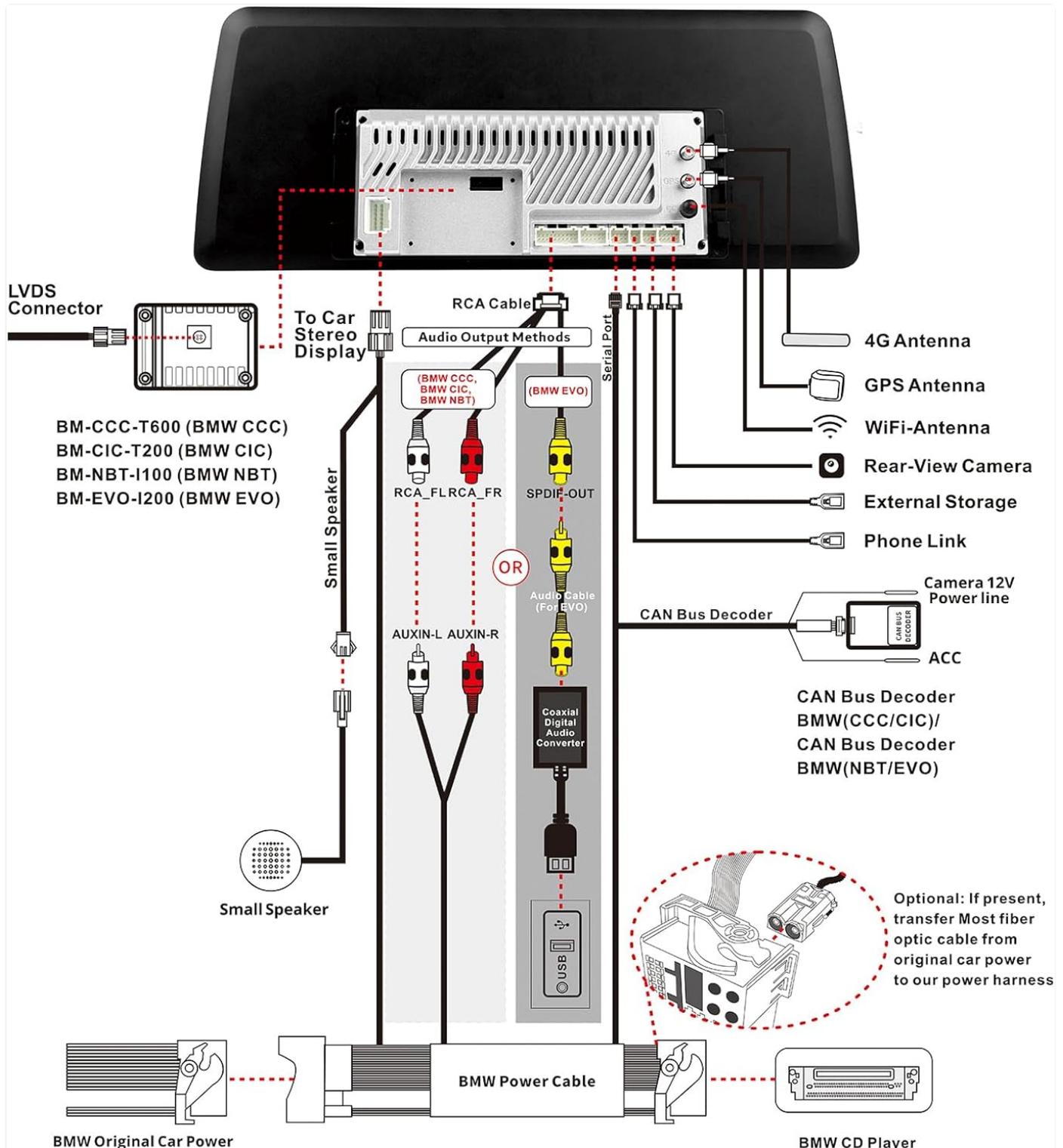
- 9.84 FT/3M Lavalier Microphone
- Online Resources Quick Guide
- Product Care Online Support Information

4. INSTALLATION GUIDE

The installation process involves removing original components, connecting the new wiring harness, and securing the ATOTO S8 PN unit. It is recommended to consult a professional if you are unsure about any steps.

4.1 Wiring Diagram

Refer to the following diagram for proper wiring connections. Ensure all cables are securely connected to their respective ports.



Comprehensive wiring diagram for the ATOTO S8 PN unit, showing connections for antennas, cameras, and audio outputs.

4.2 Step-by-Step Installation

Watch the official installation video for a visual guide. The video demonstrates the process of removing original components, connecting the new unit, and reinstalling parts.

Official installation guide video for the ATOTO BMW 3 Series CIC system (2008-2012).

1. **Remove Original Components:** Carefully remove the air conditioning vents, climate control module, original CD player, and original car display using a pry bar and appropriate tools. Disconnect all power connectors and LVDS cables.
2. **Connect Wiring:** Connect the 2P green fiber optic cable from the original ISO wire head to the Android ISO female end. Connect the ISO plug from the original host to the male connector of the Android ISO harness.
3. **Reinstall Original Host:** Reinstall the original host, ensuring it is properly seated, then lock and secure it in place.
4. **Reconnect Plugs:** Reconnect the plugs on the back of the panel and the climate control module, then reinstall them in their original positions.
5. **Install Side Cover:** Install the side cover of the storage box after tucking the excess harness into the gap above the storage box.
6. **Install ATOTO S8 PN:** Align the four clips on the back of the S8 PN with the four clip slots on the mounting bracket and press down gently to secure the unit.

5. INITIAL SETUP

5.1 Screen Resolution Setup

After installation, set the screen resolution to ensure proper display. Navigate to Vehicle Settings and select the appropriate screen resolution for your iDrive system.

Video guide for setting the screen resolution on the ATOTO car stereo.



Visual steps for configuring screen resolution, sound, and camera settings.

5.2 Sound Setup

To ensure the Android system audio plays through your car's original speakers, adjust the sound settings. Switch to manual mode, enter the original iDrive system, select 'Multimedia' then 'External Devices', and choose 'AUX front'. Ensure the volume is turned up in the AUX Front menu.

5.3 Camera Setup

If your car is equipped with an original backup camera, turn off the 'Local Reverse Switch' to enable the factory camera. If installing an aftermarket backup camera, you may not need to change this setting.

Video demonstrating how to switch reverse video settings for optimal camera display.

6. OPERATING INSTRUCTIONS

6.1 Switching Between Systems

You can switch between the Android system and the original car system by tapping the "Car" icon on the touchscreen or by long-pressing the physical button on your iDrive controller.

Video demonstrating how to switch between the Android system and the original car system.

6.2 Wireless Connectivity (CarPlay & Android Auto)

Connect your smartphone wirelessly to enjoy Apple CarPlay or Android Auto. This allows access to navigation, music, calls, and messages directly from the car stereo display.

Online Resource Quick Guide
If you need any help, please scan the QR code on the box to access Eproductcare

Product Guide
We are available around the clock on workdays. See package details for accessing the online quick guide in multiple languages

18-Month Product Care
12 months included from purchase. Extend to 18 months—details in the online resource quick guide

Firmware
ATOTO regularly updates the system firmware when needed. Users can obtain the latest firmware to ensure a smooth user experience

Enjoy seamless wireless connectivity with Apple CarPlay and Android Auto.

6.3 DriveChat AI Co-Pilot

Utilize DriveChat, your AI co-pilot powered by ChatGPT, for hands-free assistance. Ask questions, get directions, or control features without taking your hands off the wheel.

6.4 Internet Options & Dual Bluetooth

The unit offers multiple ways to connect to the internet: 4G LTE (with SIM card), Wi-Fi, USB tethering, and Bluetooth. Dual Bluetooth allows for simultaneous connection of your phone for calls/streaming (BT1) and other Bluetooth devices like gamepads or OBD2 scanners (BT2).

Upgrade Your Driving Experience with Essential Accessories

AC-AHV68 USB to HDMI Video Out Adaptor (Not included)

Connect to external displays for a more immersive viewing experience



AC-HBV86 HDMI-to-USB Adapter (Not included)

Connect your favorite HDMI devices like TV boxes, Chromecast, Switch, etc.



Dual Bluetooth enables versatile connectivity for various devices and functions.

Explore More with Essential Accessories (Not Included)



* AC-UTP1
USB Tire Pressure Monitor



* AC-44P2
1080P USB DVR Camera



* AC-AHV48
USB to RCA Video Out Adaptor



* AC-AHV68
USB to HDMI Video Out Adaptor



* AC-HBV86
HDMI-to-USB Adapter



* AC-HD02LR
Rear View Camera



* AC-FCR04W
Front View Camera



* AC-RCR04W
Rear View Camera



* AC-4450
Bluetooth OBD II



More

Choose from four internet options to stay connected on the go.

6.5 Digital Sound Processor (DSP)

Customize your audio experience with the built-in DSP. Utilize DTS functionality and the 32-band equalizer to tailor sound output to your preferences, creating an immersive audio environment.

DriveChat - Your AI Co-Pilot

Powered by ChatGPT

Hi Piko, I am now driving to the Grand Canyon, can you tell me something interesting about the Grand Canyon?

Sure! The Grand Canyon is about 277 miles long and over a mile deep ...

That's amazing. Do you know if there are any Native American tribes associated with the Grand Canyon?

Absolutely! The Grand Canyon is sacred to many Native American tribes, including ...

Switch Chatbots

The Digital Sound Processor allows for precise audio customization.

6.6 GPS Tracking (TrackHU)

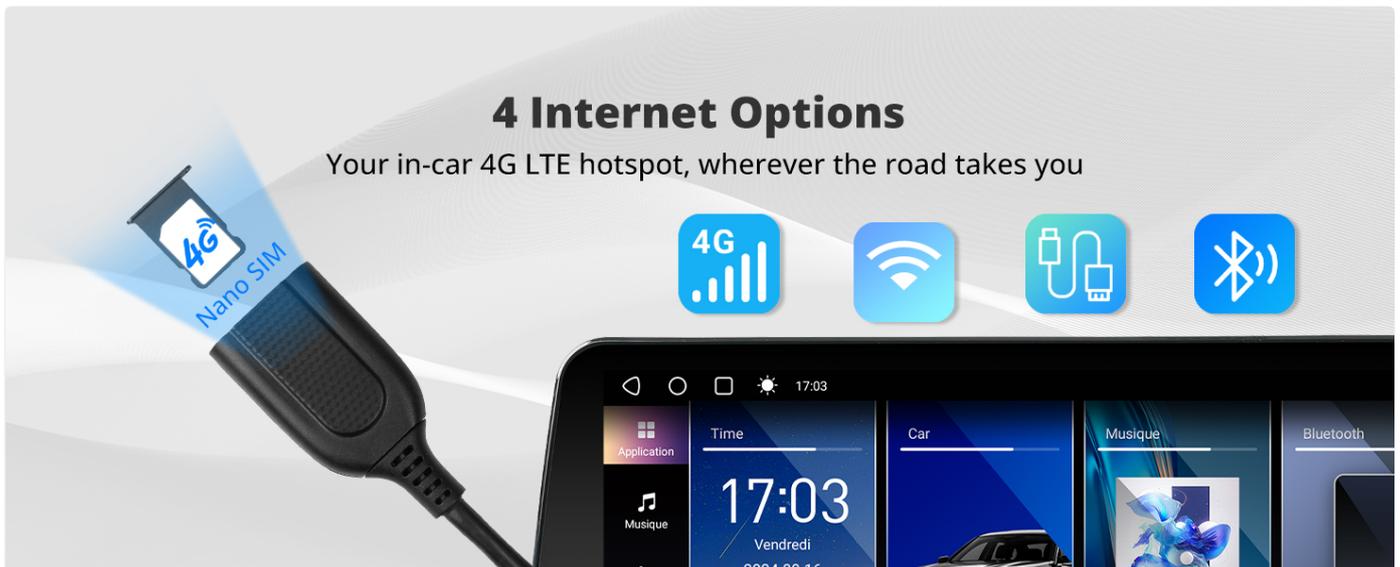
The TrackHU app provides real-time GPS tracking with a 5-second refresh rate, 4-satellite positioning, track playback with speed control, detailed reports, and geofence alerts.



TrackHU provides comprehensive GPS tracking and monitoring features.

6.7 Split Screen Functionality

Manage multiple tasks efficiently with the split-screen feature, allowing you to view two applications simultaneously without switching between them.



Utilize split screen to multitask with ease, such as navigation and music playback.

7. OPTIONAL ACCESSORIES

Enhance your driving experience with these optional ATOTO accessories (not included in the standard package):

Bigger Screen, Better Experience



A range of optional accessories are available to expand the functionality of your ATOTO S8 PN.

- **AC-FCR04W Front View Camera:** Provides HD front view imaging to help spot obstacles and navigate tight spaces.
- **AC-RCR04W Rear View Camera:** Assists with reversing and parking by providing a clear rear view.
- **AC-AHV68 USB to HDMI Video Out Adaptor:** Connects to external displays for an immersive viewing experience.
- **AC-HBV86 HDMI-to-USB Adaptor:** Connects various HDMI devices like TV boxes, Chromecast, or gaming consoles.
- **AC-UTP1 USB TPMS:** Tire Pressure Monitoring System.
- **AC-44P2 1080P USB DVR On-Dash Camera:** For recording driving footage.
- **AC-44F5 Watchband Style Wireless Remote Control:** For convenient control.
- **CA-AEC03 Class D Compact Digital Car Amplifier:** For enhanced audio output.

8. PRODUCT CARE & SUPPORT

ATOTO is committed to providing excellent product support and care.

Multitasking with Dual Bluetooth

The diagram illustrates the multitasking capabilities of the ATOTO S8 PN unit using two Bluetooth connections. It is divided into two main sections: Bluetooth 1 and Bluetooth 2.

Bluetooth 1: This section shows the unit connected to a smartphone. The interface is split into three panels: 'Calls' (displaying a dial pad and call status), 'Streaming' (displaying a music player interface), and 'Auto Unlock and Lock for Your Privacy' (showing a smartphone being unlocked by the car's system when near and locked when away).

Bluetooth 2: This section shows the unit connected to various accessories. It includes 'CI-FLT01 Interior Footwell Lights' (represented by a multi-colored light strip), a 'Gamepad', and a '+ More' option. Below this, the 'Internet Access' section shows the unit's interface displaying a news or social media feed.

Details on product care, online resources, and firmware updates.

8.1 Warranty

Your ATOTO S8 PN unit includes a 12-month warranty from the date of purchase. You can extend this to 18 months by

following the instructions in the online resource quick guide.

8.2 Online Resources & Firmware

Access the online resource quick guide and product guide in multiple languages by scanning the QR code on the box or visiting the ATOTO website. ATOTO regularly updates system firmware; users can obtain the latest firmware for a smooth user experience.

8.3 Customer Support

Our customer care team is available around the clock on workdays. Contact information can be found in the package details or through your order center.

9. SPECIFICATIONS

Feature	Detail
Model Number	S8 PN
Display Size	12.3 Inches
Screen Resolution	1920x720p
Operating System	Android
Processor	12nm SoC, ARM Cortex Octa-Core
Memory Storage Capacity	64 GB
Connectivity Technology	Wireless, Bluetooth, Auxiliary, 4G LTE, Wi-Fi
Special Features	Android Auto, Apple CarPlay, Screen Mirroring, Built-In Bluetooth, Built-In Wi-Fi, GPS Navigation, Hands-Free Calling, Digital Display Screen, Touchscreen, DSP, Multi Color Illumination, Keep Original System, AI DriveChat, Dual Bluetooth, Voice Control, Volume Control
Item Weight	5.6 pounds
Package Dimensions	14.7 x 9.4 x 6.8 inches

