

ISUDAR V2 Wireless CarPlay & Android Auto Module

ISUDAR V2 Wireless CarPlay & Android Auto Module for Volvo Sensus Systems (2016-2022) Instruction Manual

Model: V2 Wireless CarPlay & Android Auto Module

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ISUDAR V2 Wireless CarPlay & Android Auto Module. This module is designed to integrate advanced smartphone connectivity into compatible Volvo Sensus infotainment systems, enhancing your driving experience with features like navigation, communication, and media playback.

2. COMPATIBILITY

The ISUDAR V2 module is compatible with Volvo Sensus systems manufactured between 2016 and 2022. It is specifically designed for Volvo models with vertical Sensus displays, including:

- Volvo XC90
- Volvo XC60
- Volvo XC40
- Volvo V90
- Volvo V60
- Volvo V40
- Volvo S90
- Volvo S60

Important Notes on Compatibility:

- Due to variations in display compatibility, some map routes may appear slightly off-center.
- Automatic day/night mode switching is not supported; manual switching is available.

Suitable for Vertical Screens from 2016 - 2022



For XC90



For XC60 XC40



For S60 S90



For V60 V90

Figure 2.1: Examples of compatible Volvo Sensus vertical screens (XC90, XC60, XC40, S90, S60, V60, V90).

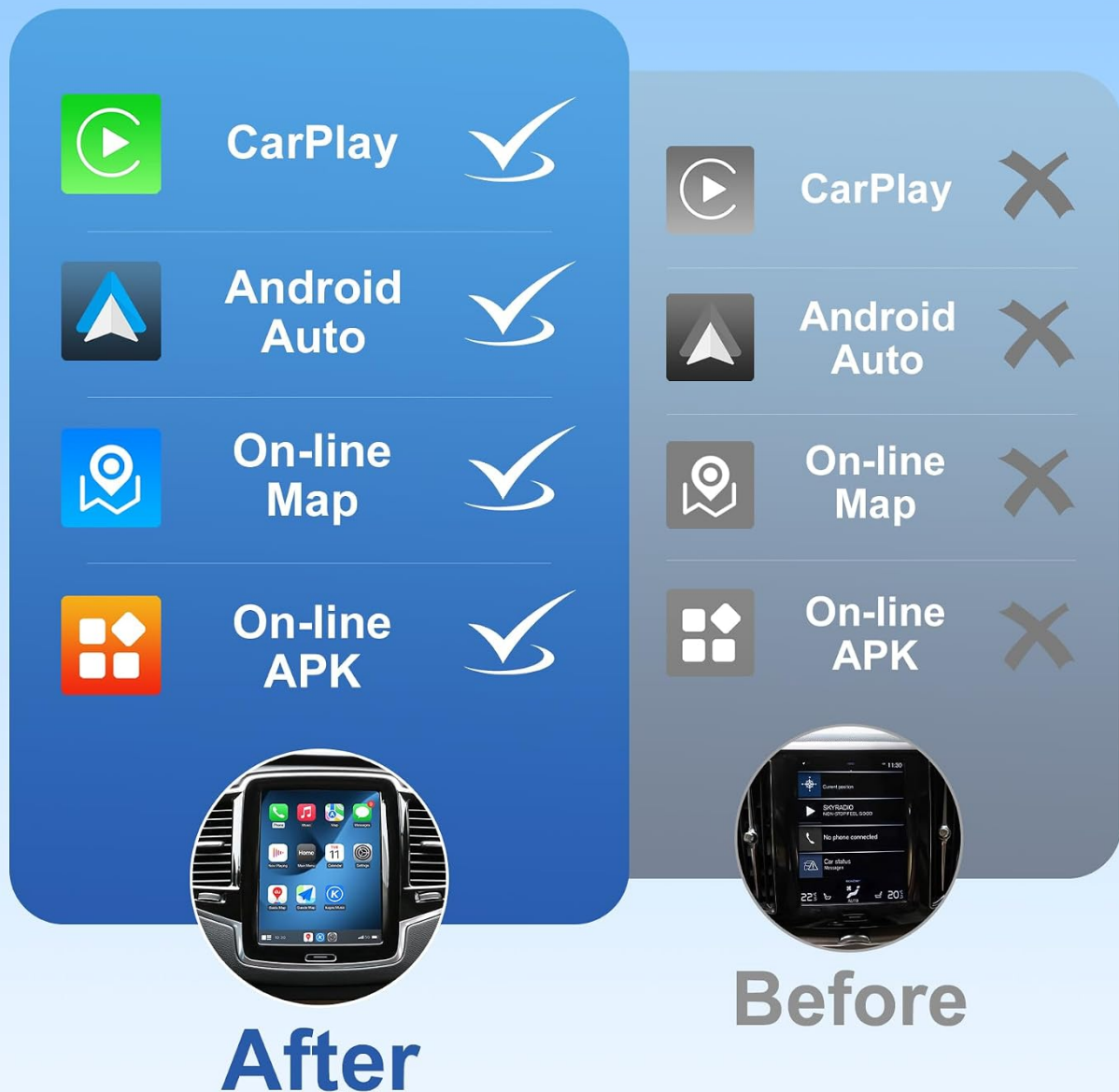


Figure 2.2: Visual comparison of infotainment system capabilities before and after installing the ISUDAR V2 module, showing added support for CarPlay, Android Auto, and online applications.

3. KEY FEATURES

- **Full-Screen CarPlay & Optimized Android Auto:** Enjoy an expansive display for navigation, calls, messages, and music. The V2 upgrade provides the closest possible full-screen experience for Android Auto, though 100% true full screen is limited by Google/Android Auto. Video applications are not supported.
- **Original System Integration:** Retains full functionality of the original Volvo sound system, microphone, and steering wheel controls (SWC). Supports Siri activation via "Hi Siri" or long-pressing the screen.
- **V2 Upgrade Enhancements:**
 - Eliminates audio delay by direct pairing with Volvo Bluetooth.
 - Adds HiCar support (for Huawei/Honor phones in China).
 - Simplifies "Home" button screen switching.
 - Offers faster and smoother overall operation.
- **Dual-Band WiFi & Bluetooth 5.0:** Ensures stable and fast wireless connectivity for your smartphone.

- **ARM Cortex-A9 Processor:** Provides efficient performance for smooth operation.



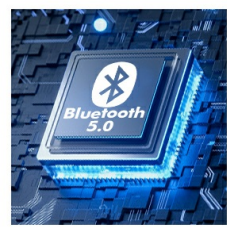
Figure 3.1: Overview of smart driving features enabled by the module.



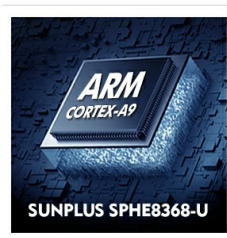
Figure 3.2: Key feature upgrades provided by the ISUDAR V2 module.



Dual-Band WiFi



Bluetooth 5.0



ARM Cortex-A9 Processor

4. SETUP AND INSTALLATION

The ISUDAR V2 module is designed for a plug-and-play installation with a harness and CAN connection. While simplified, professional installation is recommended due to the need for specific CANBus signal connections.

4.1 Package Contents

Verify that all components are present in the package:

- ISUDAR V2 Module
- Wiring Harness (specific to Volvo Sensus)
- USB Cable
- WiFi Antenna
- Installation Guide (this document)



Figure 4.1: ISUDAR V2 Module and integrated car display.



Figure 4.2: Detailed view of the ISUDAR V2 module with labeled ports.

4.2 Installation Steps (General Overview)

1. **Preparation:** Ensure the vehicle's ignition is off and the battery is disconnected before beginning installation.
2. **Access Infotainment System:** Carefully remove the necessary trim panels to access the rear of the Volvo Sensus infotainment screen and head unit.
3. **Connect Wiring Harness:** Connect the provided wiring harness between the original car harness and the head unit. This typically involves disconnecting the original cables and inserting the new harness in-line.
4. **CANBus Connection:** Identify and connect to the required CANBus signal wires. This step is critical and may require specific knowledge of your Volvo model's wiring diagram. *Note: This module requires tapping into two CANBus signal wires, which is not a purely "plug-and-play" connection. Incorrect connection can lead to system malfunctions.*
5. **Module Connection:** Connect the wiring harness, USB cable, and WiFi antenna to the ISUDAR V2 module.
6. **Secure Module:** Find a suitable, secure location behind the dashboard to mount the module, ensuring it does not interfere with other components or vehicle operation.
7. **Reassemble:** Carefully reassemble all trim panels.

8. **Test Functionality:** Reconnect the battery and test all functions of the original Sensus system and the newly installed ISUDAR module.

Warning: Incorrect installation, especially regarding CANBus connections, can damage your vehicle's electrical system. If you are not confident in performing this installation, seek assistance from a qualified automotive technician.

5. OPERATING INSTRUCTIONS

5.1 Switching Between Original Sensus and Module System

To switch between your original Volvo Sensus system and the ISUDAR module's CarPlay/Android Auto interface:

- **Method 1:** Long-press the designated button on your car's control panel (refer to your vehicle's specific layout).
- **Method 2:** Long-press the infotainment screen directly.



Figure 5.1: Methods for switching between systems.



Figure 5.2: Visual guide for one-key system switching.

5.2 Connecting to Wireless CarPlay / Android Auto

The module supports both Wireless CarPlay and Wireless Android Auto. Ensure your phone's Bluetooth and Wi-Fi are enabled.

1. Switch to the ISUDAR module interface on your car's screen.
2. On your smartphone, search for the module's Bluetooth signal and pair with it.
3. Follow the on-screen prompts on both your phone and the car display to establish the wireless CarPlay or Android Auto connection.



Figure 5.3: Wireless connection process for CarPlay and Android Auto.

5.3 Using CarPlay

Once connected, your iPhone's CarPlay interface will appear on the Volvo Sensus screen. You can:

- **Navigate:** Use Apple Maps, Google Maps, or Waze.
- **Communicate:** Make calls, send messages, and listen to voicemails.
- **Media:** Play music, podcasts, and audiobooks.
- **Voice Control:** Activate Siri by saying "Hey Siri" or long-pressing the screen.



Figure 5.4: Wireless CarPlay interface on the Volvo Sensus display.

5.4 Using Android Auto

Once connected, your Android phone's Android Auto interface will appear on the Volvo Sensus screen. You can:

- **Navigate:** Use Google Maps or Waze.
- **Communicate:** Make calls, send messages, and listen to voicemails.
- **Media:** Play music, podcasts, and audiobooks.
- **Voice Control:** Use Google Assistant by saying "Hey Google" or activating via the screen.



Figure 5.5: Wireless Android Auto interface on the Volvo Sensus display.

5.5 Utilizing Original Car Controls

The ISUDAR V2 module integrates seamlessly with your Volvo's existing controls:

- **Steering Wheel Controls:** Manage music tracks, adjust volume, and answer calls directly from your steering wheel.
- **OEM Button Control:** Use the original car's physical buttons for various functions.
- **Touch Screen Control:** Interact directly with the CarPlay or Android Auto interface via the Sensus touchscreen.

Keep Original Car Control



Figure 5.6: Integration with original car controls.

5.6 Original Camera Support

The module supports the vehicle's original rear camera and 360-degree camera systems. Aftermarket cameras are not supported.



Figure 5.7: Original rear view camera display through the module.

6. MAINTENANCE

The ISUDAR V2 module requires minimal maintenance. Follow these general guidelines:

- **Keep Dry:** Ensure the module and its connections remain dry and free from moisture.
- **Cleanliness:** Periodically clean the car's infotainment screen with a soft, lint-free cloth. Avoid harsh chemicals.
- **Software Updates:** Check the manufacturer's website (ISUDAR) for any available firmware updates for the module. Follow update instructions carefully.
- **Avoid Physical Damage:** Ensure the module is securely mounted to prevent vibrations or impacts.

7. TROUBLESHOOTING

If you encounter issues with your ISUDAR V2 module, refer to the following troubleshooting steps:

7.1 Common Issues and Solutions

- **No Display / Black Screen:**

- Verify all wiring connections, especially the LVDS cable and power supply to the module.
- Ensure the system is correctly switched to the module's interface (refer to Section 5.1).

- **No Audio / Poor Audio Quality:**

- Ensure your phone is paired directly with the Volvo's original Bluetooth for optimal audio (V2 upgrade feature).
- Check volume levels on both your phone and the car's infotainment system.
- Verify all audio connections are secure.

- **CarPlay / Android Auto Not Connecting:**

- Ensure your phone's Bluetooth and Wi-Fi are enabled.
- Forget the device from your phone's Bluetooth settings and attempt to re-pair.
- Restart both your phone and the car's infotainment system.
- Confirm the module is receiving power.

- **Map Routes Appear Off-Center:**

- This is a known compatibility limitation with some Volvo vertical displays and is not a malfunction. Manual adjustment or alternative navigation apps may help.

- **Automatic Day/Night Mode Not Working:**

- This feature is not supported. Manual switching is required.

- **Original Rear Camera Not Displaying:**

- Ensure the camera is the original factory-installed unit. Aftermarket cameras are not supported.
- Check the camera's connection to the module.

- **Unclear Dip Switch Functionality:**

- The dip switches on the module are typically used for configuring compatibility with different car models or screen resolutions. Refer to the specific installation guide provided with your module for the correct dip switch settings for your Volvo model. Incorrect settings can lead to display issues.

If the issue persists after following these steps, please contact ISUDAR customer support for further assistance.

8. SPECIFICATIONS

Feature	Specification
Brand	ISUDAR
Model	V2 Wireless CarPlay & Android Auto Module
Compatibility	Volvo Sensus Systems (2016-2022) with vertical displays
Connectivity Technology	Bluetooth 5.0, USB, Wi-Fi (2.4G + 5G Dual-Band)
Special Features	Built-In Dual-WiFi, HiCar Support (China), OEM Control Retention
Control Method	Touch, Steering Wheel, OEM Buttons

Feature	Specification
Video Capture Resolution	1080p (for supported camera inputs)
Auto Part Position	Front Inside (for installation)
Item Weight	2 pounds (approx.)
Package Dimensions	8.9 x 5.83 x 4.88 inches (approx.)
Batteries Included	No
Manufacturer	ISUDAR
ASIN	B0FH25T4QN



Figure 8.1: ISUDAR V2 Module with labeled ports (side view).



Figure 8.2: ISUDAR V2 Module with labeled ports (top view).

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or visit the official ISUDAR website. For technical support, installation assistance, or troubleshooting beyond this manual, please contact ISUDAR customer service.

Manufacturer: ISUDAR

Date First Available: October 1, 2025

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question