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ISUDAR CP31DCBM8005WNB

ISUDAR Wireless Carplay Module User Manual

Model: CP31DCBM8005WNB

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your ISUDAR Wireless Carplay Module. This device integrates Apple CarPlay, Android Auto, and Mirror Link functionalities into your vehicle's existing infotainment system, enhancing connectivity and convenience.

Please read this manual thoroughly before installation and use to ensure proper function and to avoid damage to the unit or your vehicle.

2. Compatibility

This ISUDAR Wireless Carplay Module is designed exclusively for BMW vehicles equipped with the **NBT system**. It is not compatible with EVO, CCC, or CIC systems.

To verify your vehicle's system, check the user interface (UI) and the LVDS connector type. NBT systems typically feature a 6-pin LVDS connector.



Image 2.1: System compatibility identification. The NBT system, identifiable by its user interface and 6-pin LVDS connector, is compatible. EVO, CCC, and CIC systems are not compatible.

Compatible BMW models include, but are not limited to: F01, F02, F03, F07, F10, F12, F20, F21, F22, F30, F32, E84, F25, F15, F16, F80.

3. Key Features

The ISUDAR Wireless Carplay Module offers a range of features to enhance your driving experience:

- **Wireless and Wired Apple CarPlay:** Seamless integration of iPhone features.
- **Wireless and Wired Android Auto:** Access to Android phone functionalities.
- **Mirror Link:** Display your smartphone screen directly on the car's display.
- **USB Playback:** Play media from a USB drive.
- **Bluetooth Connectivity:** For hands-free calls and audio streaming.
- **Wi-Fi Connectivity:** For wireless CarPlay/Android Auto and online features.

- **Video and Music Playback:** Enjoy various media formats.
- **Online Maps Support:** Utilize navigation apps from your smartphone.
- **Siri Voice Control:** Hands-free command execution.
- **Steering Wheel Control:** Maintain control using existing vehicle buttons.
- **Rear View Camera Support:** Integrate aftermarket or existing cameras.

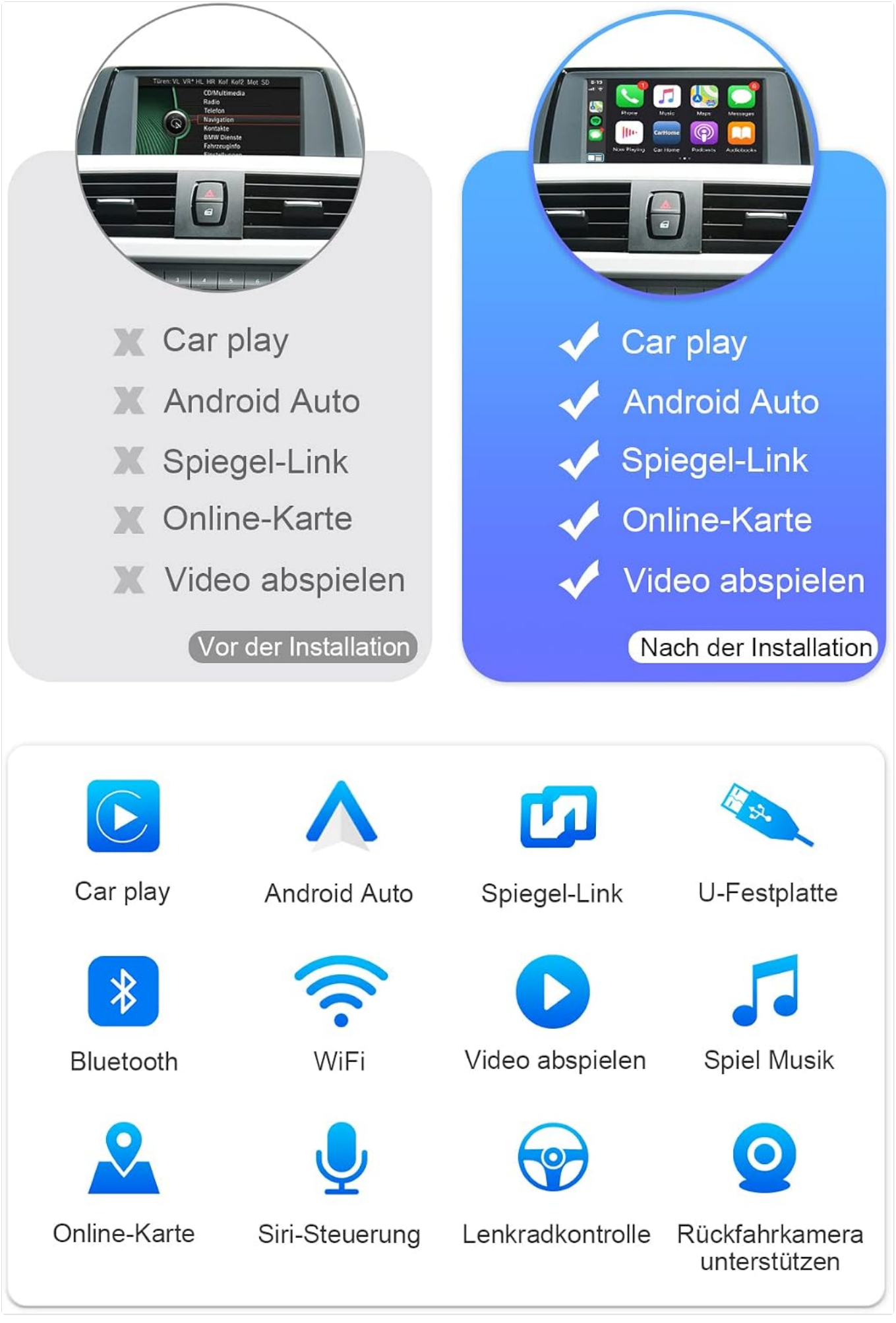


Image 3.1: Overview of features enabled by the module, including CarPlay, Android Auto, Mirror Link, USB playback, Bluetooth, Wi-Fi, video/music playback, online maps, Siri control, steering wheel control, and rear view camera support.

4. Setup and Installation

Installation of the ISUDAR Wireless Carplay Module requires technical knowledge and careful handling of vehicle electronics. It is recommended that installation be performed by a qualified professional. If you choose to install it yourself, proceed with caution.

4.1 Components Overview



Image 4.1: Main components of the Carplay module and its associated cables, including the WiFi antenna, USB cable, power cable, and

LVDS cable.

4.2 General Installation Steps (Consult a professional for specific vehicle instructions)

1. **Disconnect Battery:** Before starting, disconnect the vehicle's battery to prevent electrical shorts.
2. **Access Head Unit:** Carefully remove the trim panels and screws to access the vehicle's original head unit.
3. **Connect LVDS Cable:** Disconnect the original LVDS cable from the head unit and connect it to the module. Then, connect the module's LVDS output to the head unit.
4. **Connect Power Cable:** Connect the module's power harness to the vehicle's power supply, typically by tapping into the existing head unit's power.
5. **Connect USB Cable:** Route the USB cable to an accessible location (e.g., glove compartment) for future use with wired connections or USB media.
6. **Connect WiFi Antenna:** Attach the WiFi antenna to the module and position it for optimal signal reception.
7. **Secure Module:** Find a suitable, secure location behind the dashboard to mount the module, ensuring it does not interfere with other components.
8. **Reassemble:** Carefully reassemble all trim panels and reconnect the vehicle battery.
9. **Test Functionality:** Power on the vehicle and test all functions of the Carplay module.

5. Operating Instructions

5.1 Switching to Carplay/Android Auto Interface

After installation, you will typically switch to the Carplay/Android Auto interface by pressing and holding a specific button on your iDrive controller or steering wheel, or by selecting an option on your vehicle's screen. Refer to your installer or vehicle-specific guides for the exact method.

5.2 Wireless Apple CarPlay Connection

1. Ensure your iPhone's Wi-Fi and Bluetooth are enabled.
2. On your iPhone, go to Bluetooth settings and pair with the Carplay module (usually named "Carplay" or similar).
3. Confirm the pairing request on both your iPhone and the car's screen.
4. Once paired via Bluetooth, the module will prompt you to enable CarPlay via Wi-Fi. Accept this.
5. CarPlay should now launch automatically.



Image 5.1: Example of the Wireless Apple CarPlay interface displayed on the vehicle's screen.

5.3 Wireless Android Auto Connection

1. Ensure your Android phone has the Android Auto app installed and Wi-Fi/Bluetooth are enabled.
2. On your Android phone, go to Bluetooth settings and pair with the Carplay module.
3. Confirm the pairing request.
4. Android Auto should launch automatically. Note that wireless Android Auto requires a compatible phone.



Image 5.2: Example of the Android Auto interface displayed on the vehicle's screen.

5.4 Controls

The module integrates with your vehicle's existing control systems:

- **iDrive Knob Control:** Navigate menus and select options using your BMW's iDrive controller.
- **Steering Wheel Control:** Use your steering wheel buttons for volume adjustment, track skipping, and answering calls.
- **Voice Control (Siri/Google Assistant):** Activate voice commands by saying "Hey Siri" or using the dedicated voice button on your steering wheel.

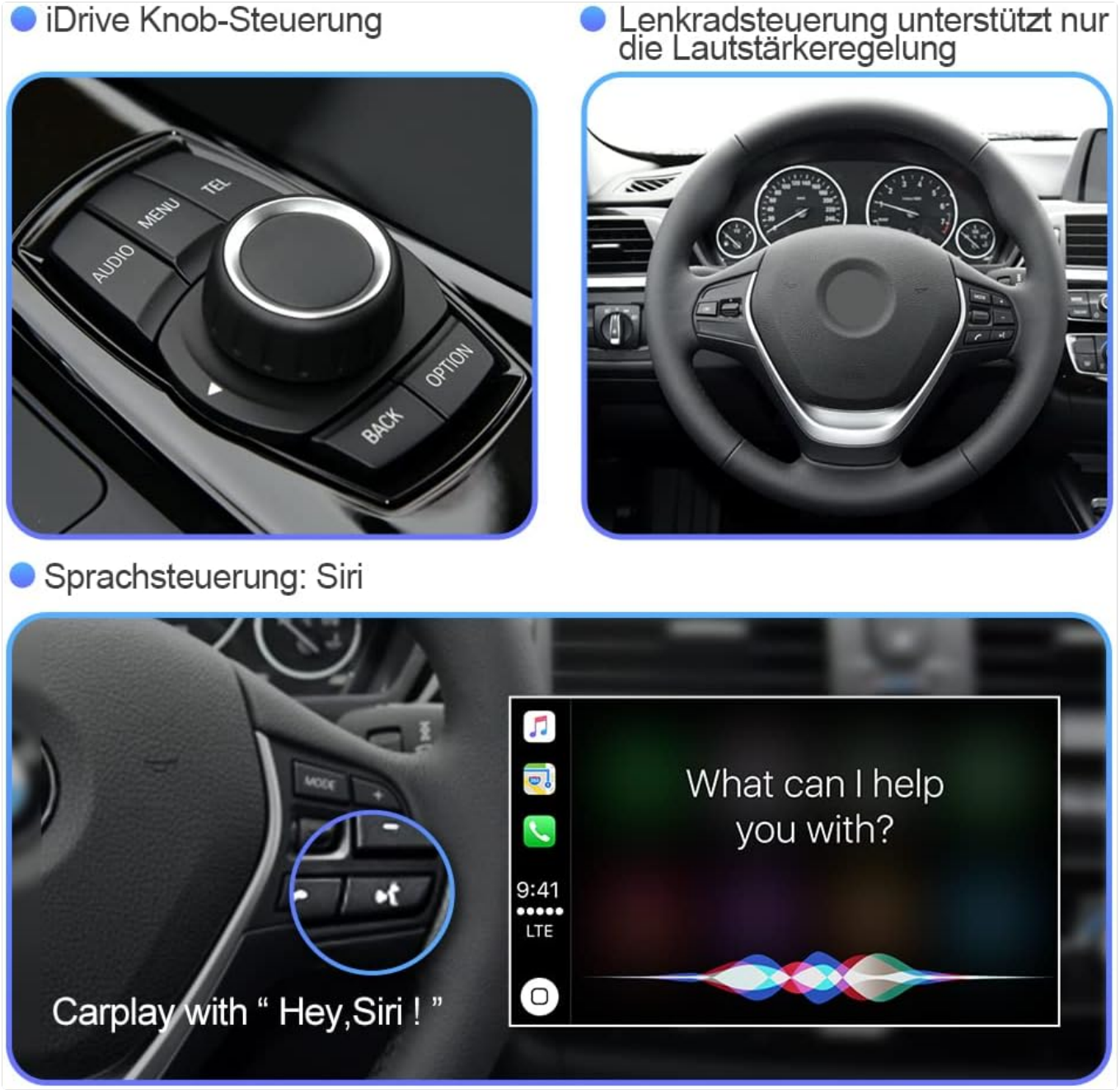


Image 5.3: Demonstrates control methods including the iDrive knob, steering wheel buttons for volume, and voice commands like Siri.

6. Maintenance

- **Cleaning:** Keep the module and its connections free from dust and debris. Use a soft, dry cloth for cleaning.
- **Environment:** Ensure the module is installed in a location protected from extreme temperatures, moisture, and direct sunlight.
- **Software Updates:** Periodically check the manufacturer's website for any available firmware updates to ensure optimal performance and compatibility.

7. Troubleshooting

- **No Power/Unit Not Turning On:**
  - Check all power connections to the module.
  - Ensure the vehicle's battery is properly connected and charged.

- Verify that the vehicle's head unit is functioning correctly.

- **No Sound Output:**
  - Ensure the AUX input is selected on your vehicle's original head unit.
  - Check all audio connections between the module and the vehicle's audio system.
  - Adjust the volume on both your phone and the car's system.
- **CarPlay/Android Auto Not Connecting Wirelessly:**
  - Ensure Wi-Fi and Bluetooth are enabled on your smartphone.
  - Forget the device in your phone's Bluetooth settings and re-pair.
  - Restart both your phone and the vehicle's infotainment system.
  - Confirm your phone supports wireless CarPlay/Android Auto.
- **Display Issues (Black Screen, Flickering):**
  - Check the LVDS cable connections for proper seating.
  - Ensure the module is correctly configured for your vehicle's screen resolution.
- **Controls Not Responding:**
  - Verify all wiring harnesses are securely connected.
  - Restart the module by turning the vehicle off and on.

8. Specifications

Brand	ISUDAR
Model Number	CP31DCBM8005WNB
Screen Size Compatibility	6.5 Inches (vehicle's original screen)
Connectivity Technology	Bluetooth, USB, Wi-Fi
Compatible Devices	Smartphones (Apple iOS, Android), Camera
Color	Black and Silver

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official ISUDAR website. Keep your proof of purchase for warranty claims.

If you encounter issues not covered in this manual, please contact ISUDAR customer service for assistance.

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

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