Uckazy Linux 5.0 System, NTG5.0/5.1 System

Uckazy 12.3-inch Carplay/Android Auto Multimedia System User Manual

Model: NTG5.0/5.1 System (Linux 5.0)
For Mercedes-Benz E-Class W212, E200, S212 (2015-2016) 4-Door Vehicles

1. Important Safety Information

Read all instructions carefully before installation and operation. Failure to follow these instructions may result in damage to the product or vehicle, and may void the warranty. Professional installation is recommended.

- Ensure the vehicle's ignition is off and the battery is disconnected before beginning installation.
- Do not operate the system in a way that distracts you from driving. Always prioritize road safety.
- This product is designed for specific Mercedes-Benz E-Class W212, E200, S212 models (2015-2016) with NTG 5.0/5.1 system (4-door vehicles only). It is not compatible with C207 models or NTG4.0/4.5/4.7 systems. Verify compatibility before installation.
- Handle fiber optic cables with care to prevent damage.

2. Package Contents

Verify all components are present before installation:

- Ultra narrow 12.3" in-cell display screen
- Plug and play power Cable/Frame
- USB/AUX/RCA Cable
- AMI Cable
- Installation tools and touch pen



Figure 2.1: Included components for the Uckazy multimedia system. This image shows the 12.3-inch screen, a Benz E-Class frame, an AUX cable, an AMI cable, a power cable/USB cable, and installation tools with a touch pen.

3. Compatibility Check

This unit is specifically designed for Mercedes-Benz E-Class W212, E200, E230, E260, E300, S212 models manufactured between 2015 and 2016, equipped with the NTG 5.0/5.1 system. It is only suitable for 4-door vehicles and is not compatible with C207 models or vehicles with NTG4.0/4.5/4.7 systems.

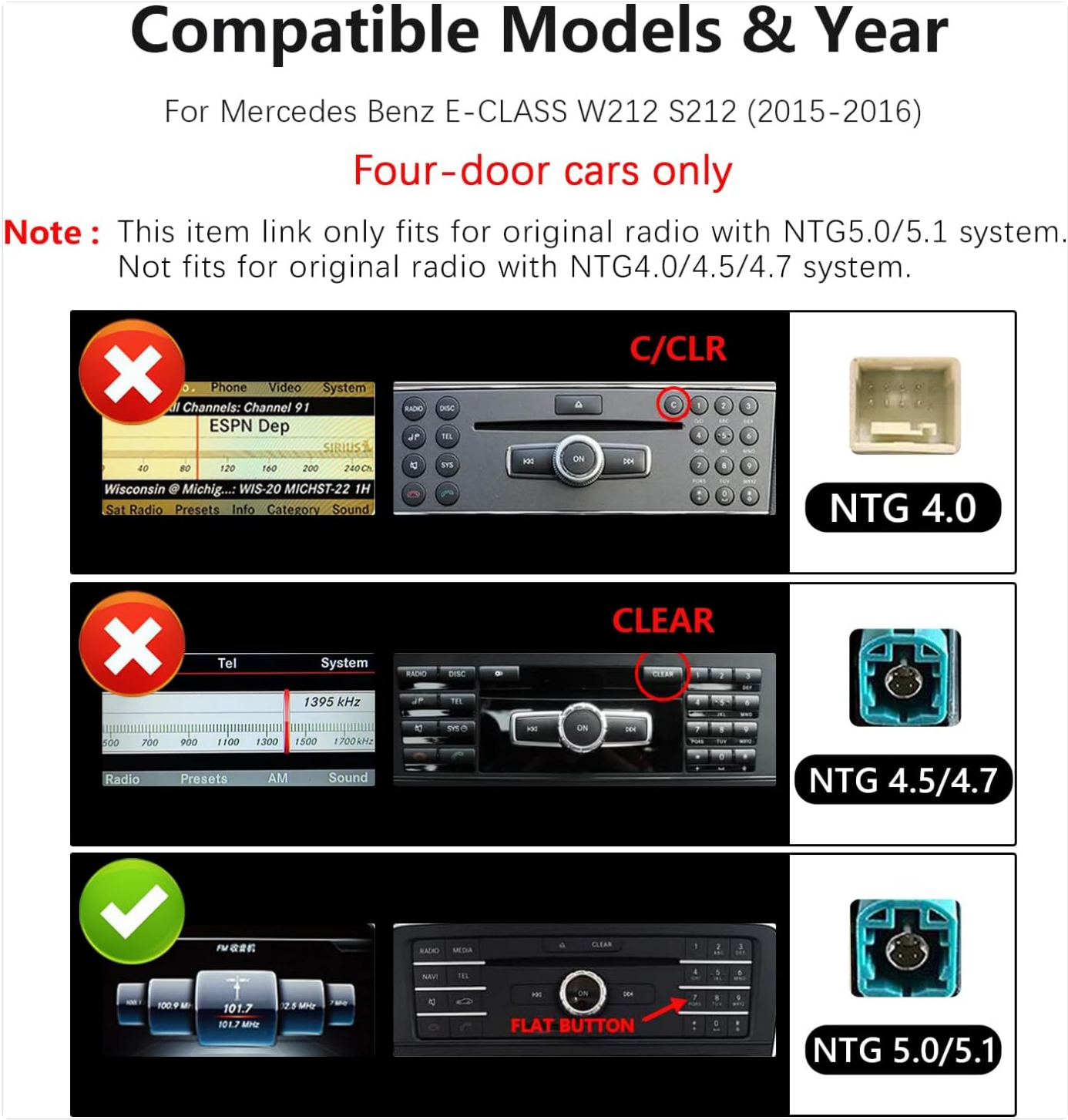


Figure 3.1: Visual guide for identifying compatible NTG systems. The image displays examples of NTG 4.0, NTG 4.5/4.7, and NTG 5.0/5.1 radio units, highlighting key differences for identification. The Uckazy system is compatible with NTG 5.0/5.1 systems, identifiable by a "FLAT BUTTON" on the radio unit.

4. Installation Guide

4.1 Fiber Optic Cable Transfer

If your original car system uses fiber optic cables for audio, you must transfer them to the new system's harness to ensure sound functionality.

1. Locate the original car CD unit.
2. Unplug the 2P fiber optic harness from the original car CD unit.
3. Insert this fiber optic harness into the corresponding slot on the Linux system harness.

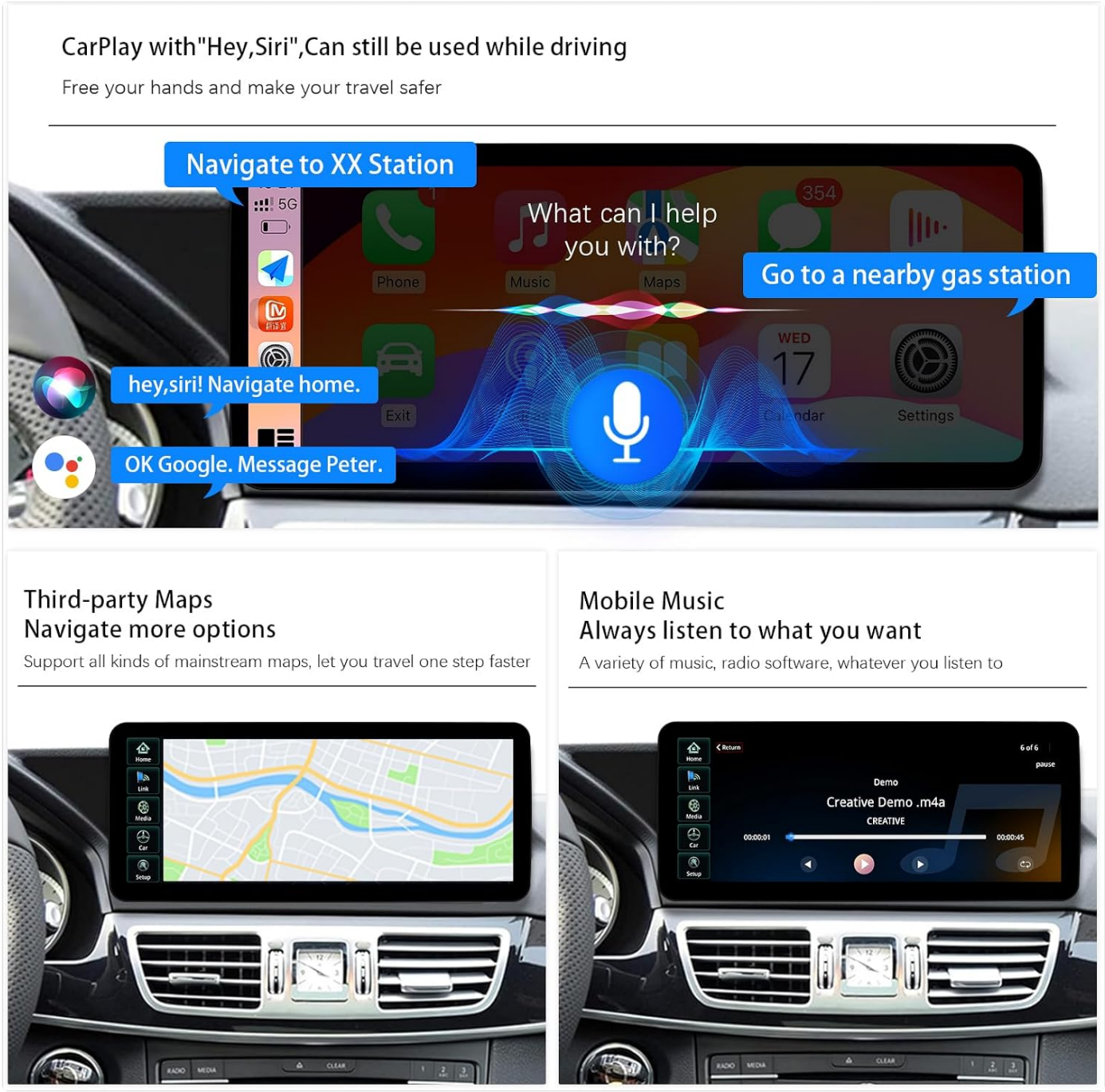


Figure 4.1: Fiber optic cable transfer diagram. This image illustrates the process of removing the 2-pin fiber optic cable from the original CD unit and inserting it into the new Linux system harness. It also shows a wire definition for the main harness (A: 360-DET, B: ACC-OUT, C: Rear-Camera-PWR, D: GND).

Video Guide: How to transfer fiber optic cables (no sound issue troubleshooting)

Your browser does not support the video tag.

Video 4.1: This video demonstrates the procedure for transferring fiber optic cables to resolve potential "no sound" issues after installation. It shows how to cock the snap, pull out the fiber optic cable, and then plug it into the new power cord, ensuring the correct interface is used.

4.2 Wired CarPlay/Android Auto Connection

For wired CarPlay or Android Auto functionality, use the USB1 port. USB2 is for storage only.

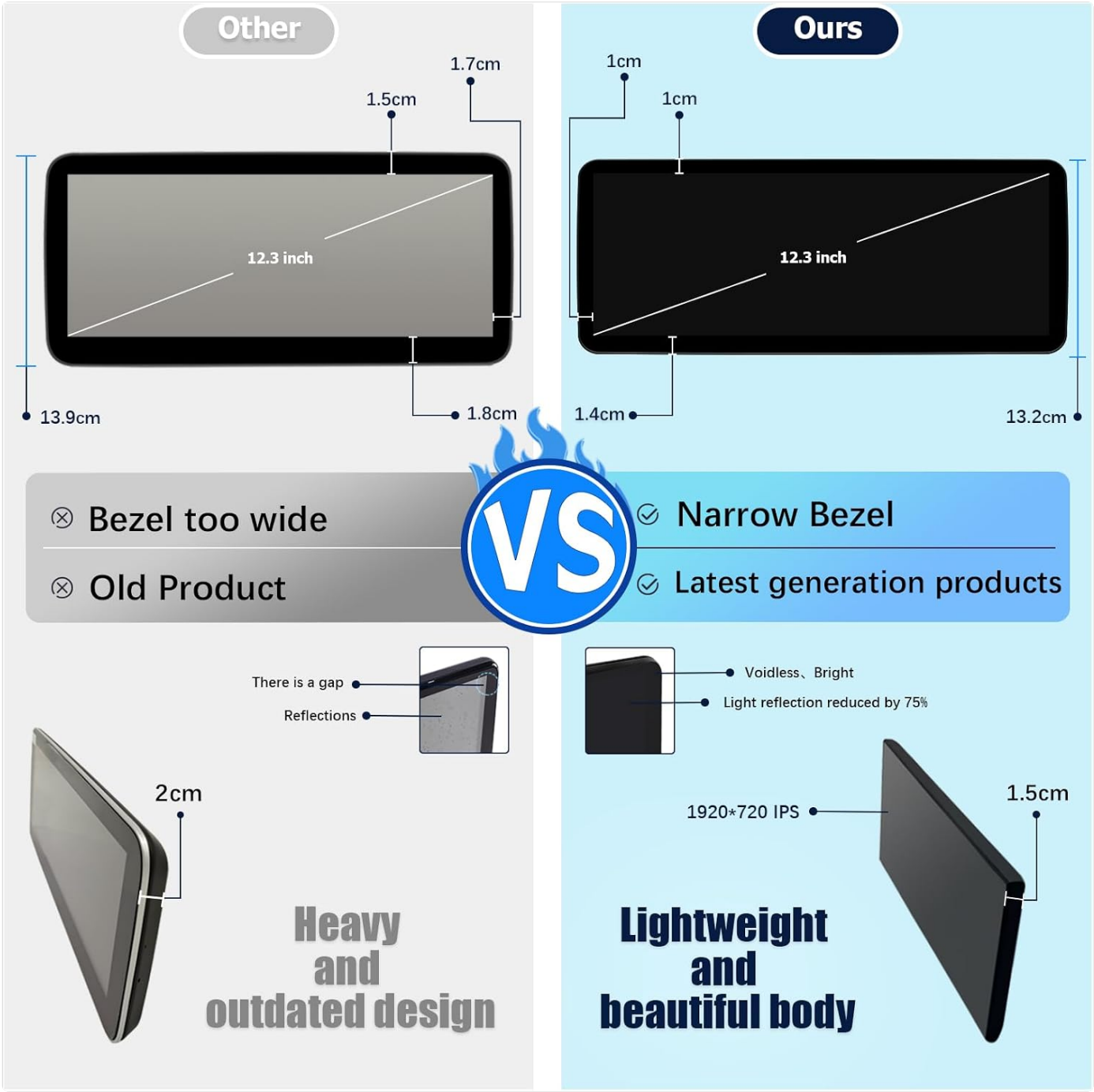


Figure 4.2: USB port usage. This image clarifies that USB IN 1 must be used for CarPlay/Android Auto data link, while USB IN 2 is for read storage. It also shows a connection for reducing sound noise.

4.3 Sound Activation (AUX/AMI)

To ensure audio output, the system requires connection via either the AMI cable or the original AUX input.

1. If your vehicle has an AMI port, directly insert the provided AMI cable.
2. If using the original AUX input (typically found in the manual gear position or passenger side storage box), navigate to the system settings and turn off the "AUX auto switching" setting.



Figure 4.3: AMI and AUX connection options. This image shows examples of an AMI port and an AUX port, along with a screenshot of the "Car Settings" menu where "AUX Activation" and "Auto Switch to AUX" can be configured.

Video Guide: How to connect Carplay and activate sound (Method 1)

Your browser does not support the video tag.

Video 4.2: This video demonstrates connecting to CarPlay and activating sound via Bluetooth. It shows entering the original car system, searching for phones, connecting to "BT-Transmitter", and activating Bluetooth audio to enable sound from the CarPlay screen.

Video Guide: How to connect Carplay and activate sound (Method 2)

Your browser does not support the video tag.

Video 4.3: This video provides an alternative method for connecting to CarPlay and activating sound. It focuses on enabling the "Use Car's BT Channel" setting within the system settings, rebooting the device, and then connecting to the phone's Bluetooth via the original car system to achieve audio output.

5. Operating Instructions

5.1 System Overview

The Uckazy multimedia system features a dual-system design, allowing seamless switching between the Linux 5.0 system (for CarPlay/Android Auto) and the original car's NTG system. It utilizes an ultra-narrow 12.3-inch IN-CELL screen with HD1920*720 resolution for enhanced clarity and reduced reflection.



Figure 5.1: Before and after installation view. This image shows the car dashboard with the original smaller screen on the left ("Before installation") and the new 12.3-inch Uckazy multimedia screen on the right ("After installation"), demonstrating the visual upgrade.

For Mercedes Benz E Class W212



Figure 5.2: Screen technology comparison. This image compares the Uckazy screen ("Ours") with another product ("Other"), emphasizing the narrow bezel, larger field of view, and in-cell screen technology of the Uckazy unit, which reduces light reflection by 75% and offers a dustproof, waterproof, and anti-fog display.

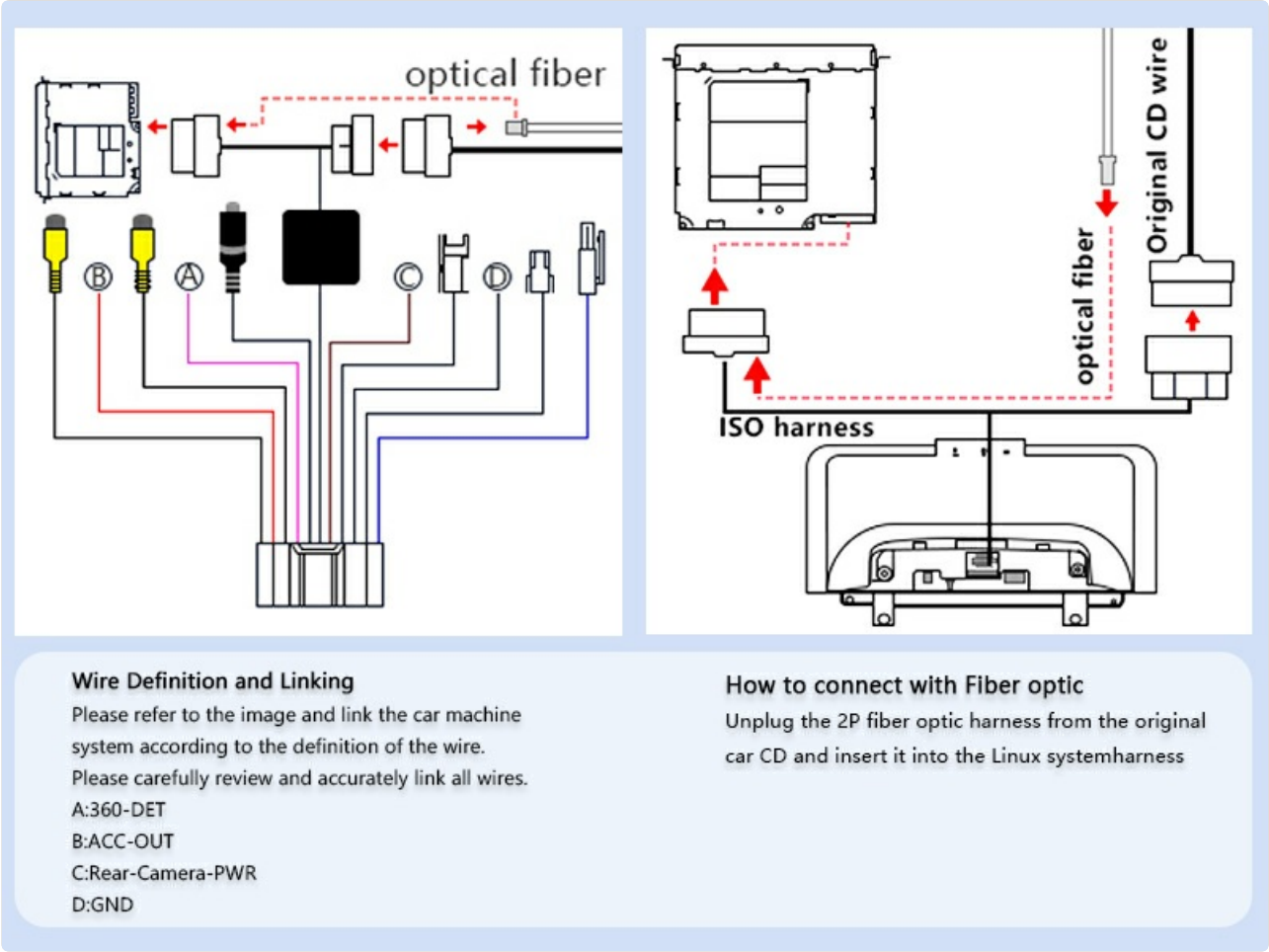


Figure 5.3: Screen resolution comparison. This image highlights the Uckazy product's 1920*720 resolution, resulting in clearer pictures, ultra-narrow screen, and in-cell technology, compared to other products with 1280*480 resolution, wider bezels, and screen gaps.

5.2 Switching Between Systems

The system allows for a one-click switch between the Linux system (CarPlay/Android Auto) and the original car system. All original functions, including radio, amplifier, steering wheel controls, mouse knob, and reverse camera, are retained.



Figure 5.4: One-click system switching. This image illustrates the seamless transition between the original car's NTG 4.5 system display and the new Linux system interface.

Video Guide: Operating System Linux

Your browser does not support the video tag.

Video 5.1: This video demonstrates the Linux operating system interface, showing various applications like OEM Car Info, CarPlay, Android Auto, HiCar, and Autolink, and how to navigate through them.

5.3 CarPlay and Android Auto Features

The system supports wireless and wired Apple CarPlay and Android Auto, wireless MirrorLink for iOS and Android phones, Bluetooth, and Wi-Fi. It includes a built-in DSP with 16 EQ segments for audio customization.

- Access map navigation, phone contacts, email, notifications, and music.
- Utilize voice assistants like Siri or Google Voice Assistant for hands-free operation.

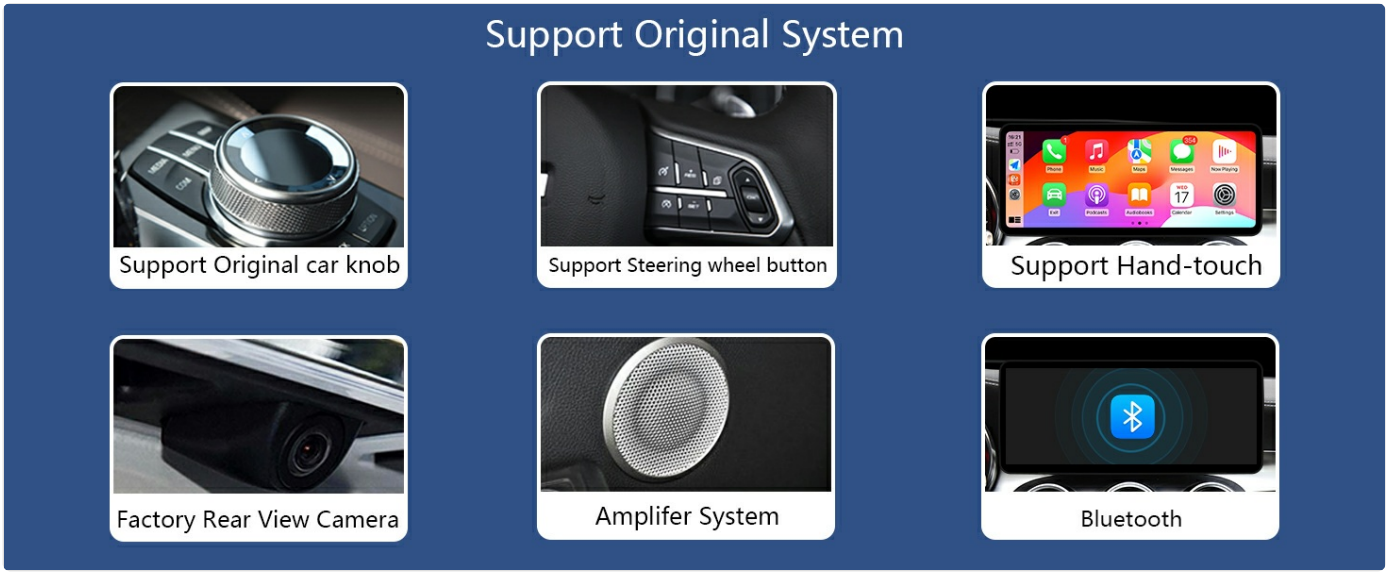


Figure 5.5: Wireless CarPlay connection. This image provides a two-step guide for wireless CarPlay: 1. Connect Bluetooth, 2. Allow all permissions and wait for connection.

5.4 Automatic Light Sensitivity

The screen automatically adjusts its brightness based on your car's original headlights, optimizing visibility during day and night driving.

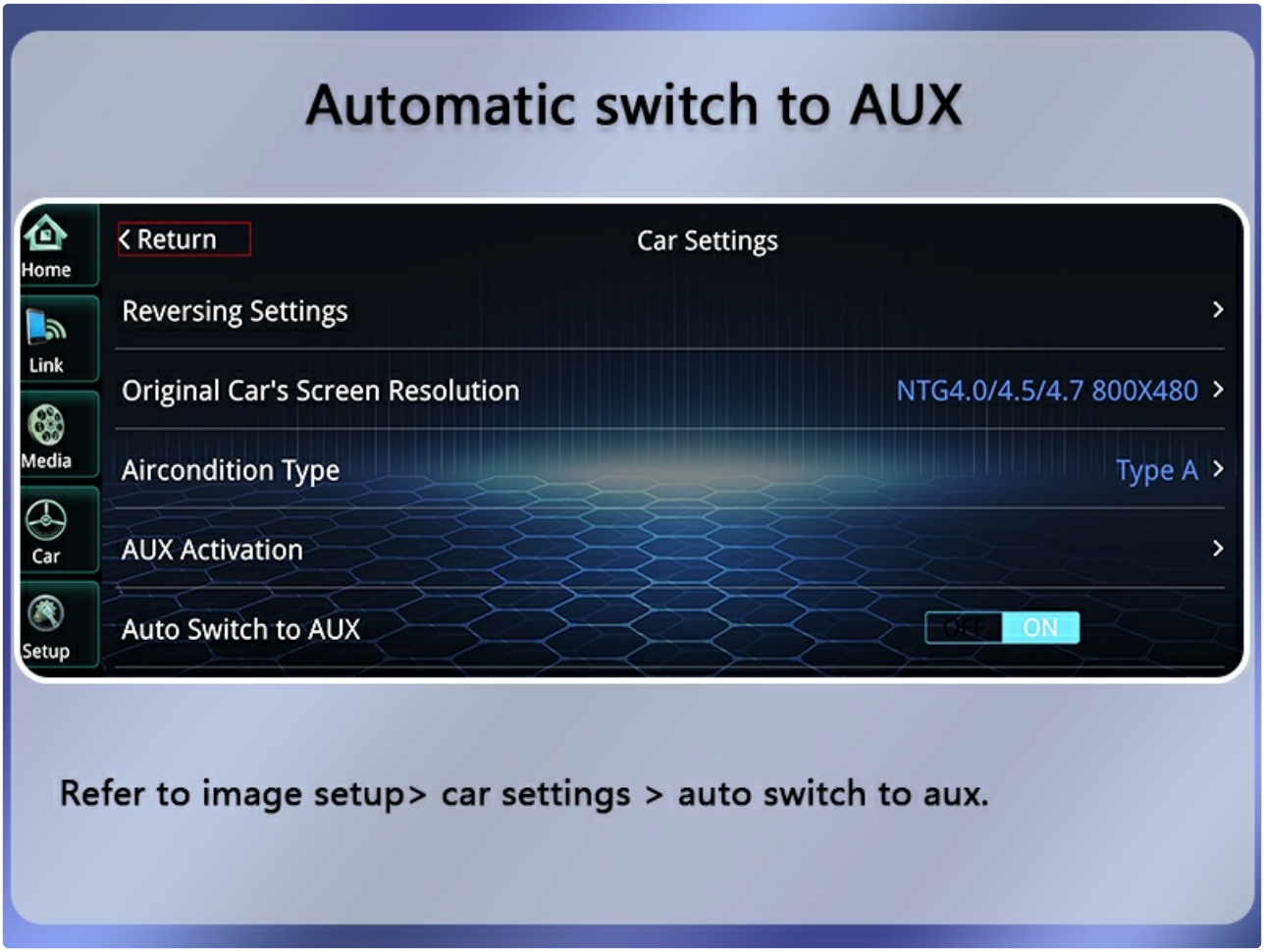


Figure 5.7: Day and Night Mode. This image illustrates how the screen's automatic light sensitivity adjusts the display for optimal viewing during both daytime (bright) and nighttime (dark) conditions, based on the car's headlights.

6. Settings and Customization

6.1 OEM Resolution Settings

To ensure correct display of original car information, set the OEM screen resolution in the system settings.

- Navigate to **Setup > Car Settings > Original Car Screen Resolution**
- Select the correct resolution for your OEM display. Incorrect settings may prevent original car information from displaying correctly.

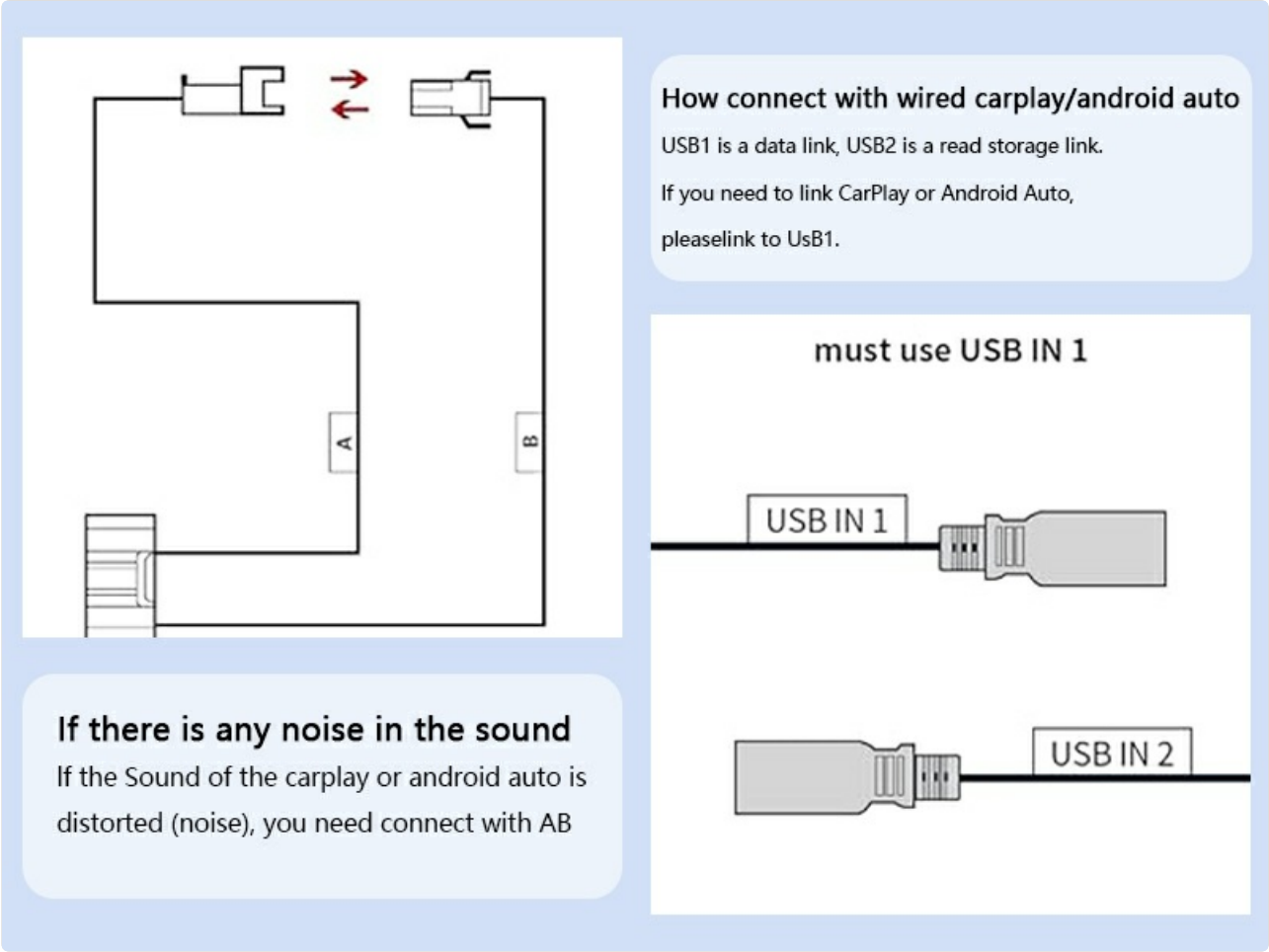


Figure 6.1: OEM Resolution and Camera Settings. This image shows screenshots of the system settings for "Original Car's Screen Resolution" (with options like NTG4.0, NTG4.5, NTG5.0/5.1 resolutions) and "Reversing Settings" (for selecting Original Camera or Aftermarket Camera).

6.2 Camera Settings

Configure the system for your vehicle's reverse camera type.

- Navigate to **Setup > Car Settings > Reversing Settings > Camera Type**
- Select either "Original Camera" or "Aftermarket Camera" as appropriate. Incorrect selection will prevent the reverse camera from functioning.

6.3 AUX Auto Switch

If you are experiencing sound issues or prefer manual control over AUX input, adjust this setting.

- Navigate to **Setup > Car Settings > Auto Switch to AUX**
- Toggle this setting ON or OFF based on your preference.

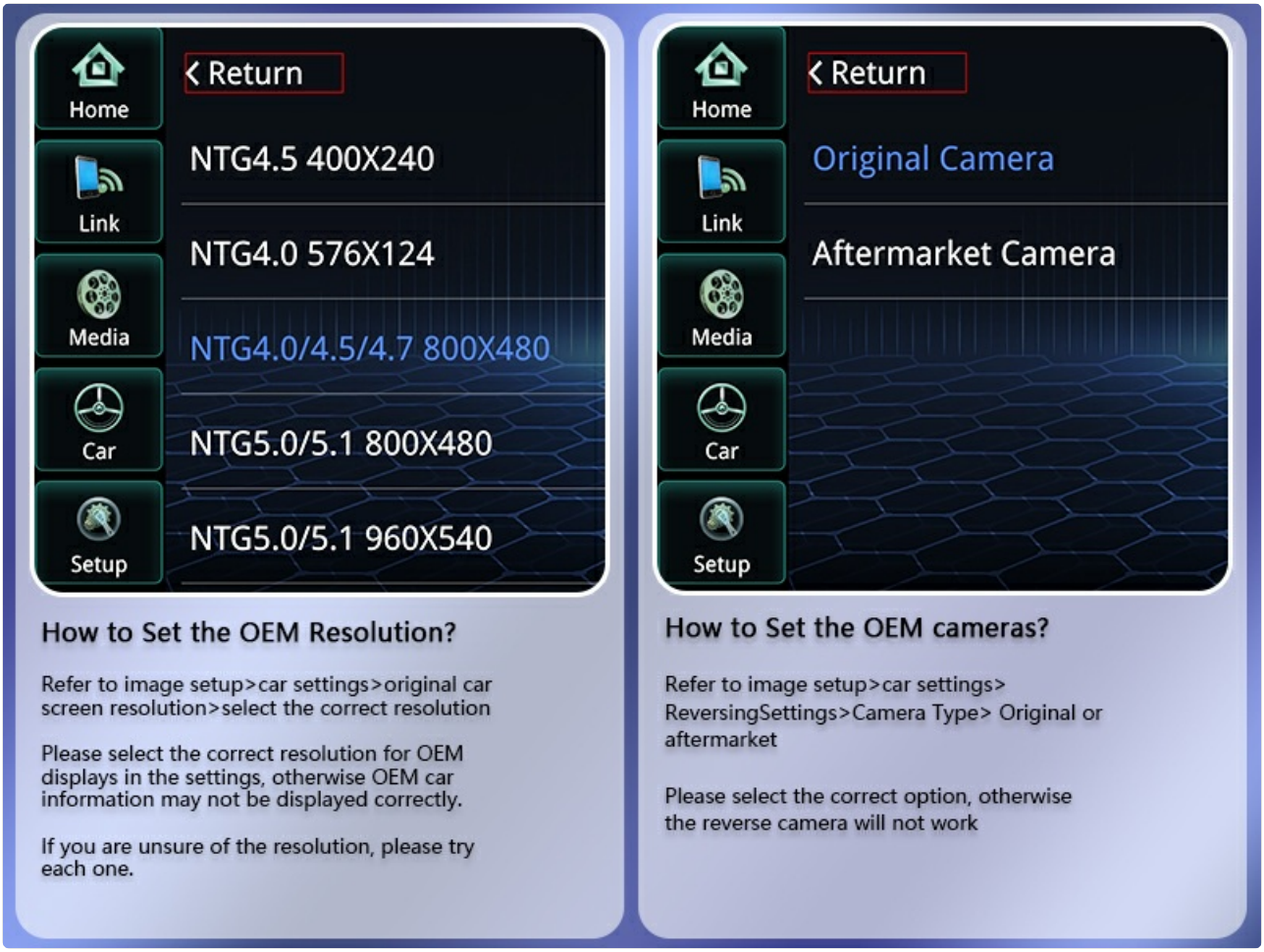


Figure 6.2: Automatic switch to AUX setting. This image shows a screenshot of the "Car Settings" menu, highlighting the "Auto Switch to AUX" option, which can be toggled ON or OFF.

7. Troubleshooting

Problem	Possible Cause	Solution
No sound from the system.	Fiber optic cables not transferred correctly, or AUX/AMI not activated.	• Ensure fiber optic cables are correctly transferred from the original CD unit to the new harness (refer to Section 4.1). • Verify AMI cable is connected, or AUX is properly activated in settings (refer to Section 4.3). • Check if "Use Car's BT Channel" is ON in System Settings and reboot the device (refer to Video 4.3).
CarPlay/Android Auto not connecting wirelessly.	Bluetooth not connected or Siri/Google Voice Assistant not enabled.	• Ensure Bluetooth is enabled on your phone and the system, and they are paired (refer to Video 4.2). • For CarPlay, ensure Siri is enabled on your iPhone.
Original car information not displaying correctly.	Incorrect OEM screen resolution setting.	Adjust the "Original Car Screen Resolution" in the system settings to match your vehicle's display (refer to Section 6.1).

Problem	Possible Cause	Solution
Reverse camera not working.	Incorrect camera type selected in settings.	Verify the "Camera Type" setting (Original or Aftermarket) is correct in the Reversing Settings (refer to Section 6.2).
Sound is distorted or has noise.	Potential interference or improper USB connection.	Ensure the noise reduction connection (if applicable, as shown in Figure 4.2) is correctly installed.

If you encounter problems during installation or operation, please contact Uckazy Factory Outlet for technical support. You can find their contact information on the product's Amazon page under "Sold by Uckzay Factory Outlet" and clicking "Ask a question."



Figure 7.1: How to contact technical support. This image shows a screenshot of the Amazon product page, indicating where to find the seller ("Uckzay Factory Outlet") and the "Ask a question" link for technical assistance.

8. Specifications

Display Size	12.3 Inches
Resolution	HD 1920*720
Operating System	Linux 5.0
Connectivity Technology	Bluetooth, Wi-Fi, USB
Special Features	Touchscreen, Wireless/Wired Apple CarPlay, Wireless/Wired Android Auto, MirrorLink, Built-in DSP with 16 EQ segments, Automatic Light Sensitivity
Vehicle Service Type	Car (Mercedes-Benz E-Class W212, E200, S212 2015-2016, NTG 5.0/5.1 System, 4-door)
Product Dimensions	7.3 x 1.6 x 5.12 inches
Item Weight	3.96 pounds

9. Warranty and Support

The product comes with a 1-year manufacturer's warranty. For any technical assistance, installation queries, or troubleshooting, please contact the seller, Uckazy Factory Outlet, directly through the Amazon platform. They offer dedicated technical support to resolve issues related to installation, sound, CarPlay, or original car UI display.
Contacting Support:

- Visit the product page on Amazon.
- Locate "Sold by Uckzay Factory Outlet".
- Click on "Ask a question" to send a message to the technical support team.

10. Maintenance

To ensure the longevity and optimal performance of your multimedia system, follow these maintenance guidelines:

- **Cleaning:** Use a soft, lint-free cloth to clean the screen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid harsh chemicals or abrasive materials.
- **Temperature:** Avoid exposing the unit to extreme temperatures, both hot and cold, for extended periods.
- **Software Updates:** Periodically check for firmware updates from the manufacturer to ensure the system has the latest features and bug fixes. Follow the provided instructions for safe updating.
- **Cable Connections:** Ensure all cables remain securely connected. Loose connections can lead to intermittent functionality or sound issues.

© 2026 Uckazy. All rights reserved.