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> [AINAVITO 10.25 Inch CarPlay Screen Radio for BMW 3/4 Series \(2013-2016\) F30/F31/F32/F33/F34/F36 with NBT System](#)

AINAVITO Linux-BMW3

AINAVITO 10.25 Inch CarPlay Screen Radio Instruction Manual

Model: Linux-BMW3

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your AINAVITO 10.25 Inch CarPlay Screen Radio. This unit is designed to enhance your driving experience by integrating modern connectivity features while retaining your vehicle's original functionalities.

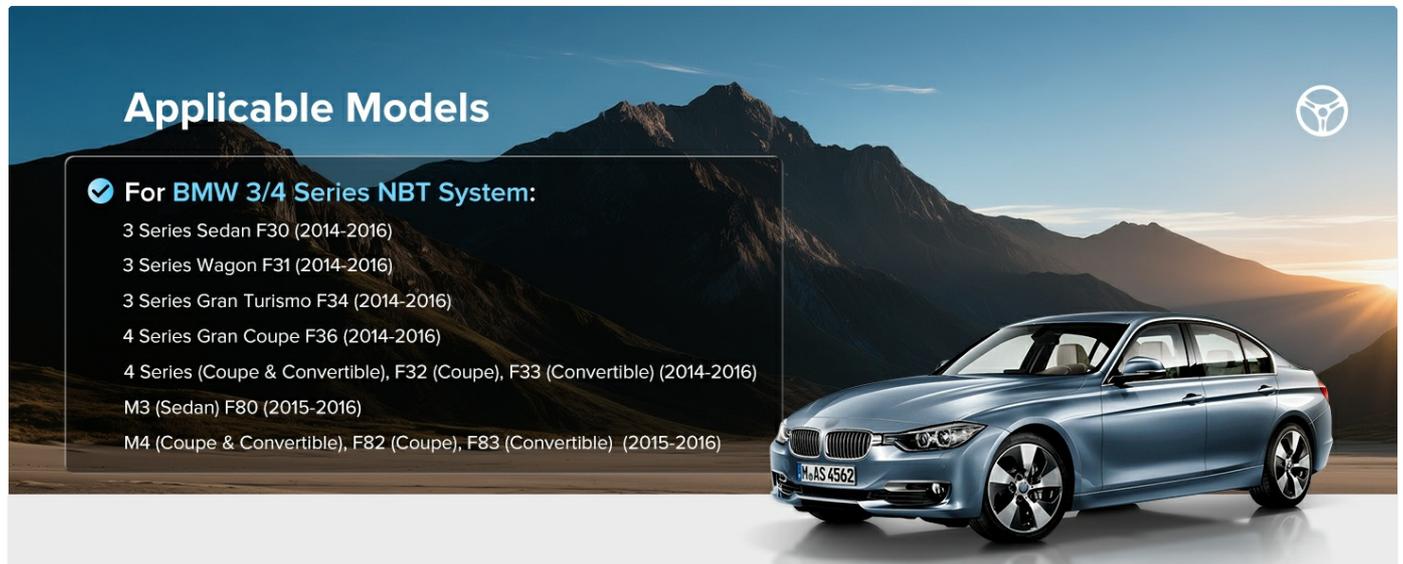


Image: Before and After installation of the AINAVITO 10.25 Inch CarPlay Screen Radio.

2. COMPATIBILITY

This AINAVITO 10.25 Inch CarPlay Screen Radio (Model: Linux-BMW3) is compatible with specific BMW 3/4 Series models equipped with the NBT system. Please verify your vehicle's compatibility before installation.

- **BMW 3 Series:** F30/F31/F32/F33/F34/F36 (2013-2016) with NBT system
- **BMW M3:** F80 (2014-2019) with NBT system
- **BMW M4:** F82 (2014-2019) with NBT system

Applicable Models & Years

For BMW 3 Series F30/F31/F34(2013-2016) with NBT System

For BMW 4 Series F32/F33/F36(2013-2016) with NBT System

For BMW M3 F80 (2014-2019) with NBT System

For BMW M4 F82/F83(2014-2019) with NBT System



How to check **NBT** system



For BMW original system UI



6-Pin LVDS port at the OEM screen



Media button on idrive controller

Image: Identifying NBT System Compatibility.

3. WHAT'S IN THE BOX

- 10.25 inch Car head unit
- ISO Wiring Harness
- USB cable
- Audio Cable
- Installation Instruction

4. INSTALLATION GUIDE

Follow these steps carefully for proper installation. It is recommended to watch the official installation video for visual guidance.

Your browser does not support the video tag.

Video: Installation Guide for BMW 3 & 4 Series with NBT System.

Step-by-Step Installation:

- 1. Remove Air Conditioning Vent Cover:** Carefully remove the decorative cover of the air conditioning vent using a prying tool.
- 2. Disconnect Wiring Harness:** Disconnect the wiring harness located at the back of the air conditioning vent.
- 3. Remove Bottom Cover:** Remove the bottom cover below the air conditioning controls to expose the fixing screws.
- 4. Unscrew Fixing Screws:** Unscrew the four fixing screws securing the air conditioning control panel.
- 5. Remove Air Conditioning Control Panel:** Gently pull out the air conditioning control panel and disconnect its wiring harness from the back.
- 6. Unscrew Main Unit Screws:** Unscrew the fixing screws on both sides of the main unit (radio/CD player).
- 7. Remove Main Unit:** Pull out the main unit and disconnect its power cord from the back. Identify and disconnect the fiber optic audio cable if present.
- 8. Unscrew Display Screen Screws:** Unscrew the fixing screws for the original display screen.
- 9. Remove Display Screen:** Pull the original display screen upwards and disconnect its wiring harness.
- 10. Prepare New Unit and Cables:** Take out the new AINAVITO unit and the provided cables.
- 11. Install Main Power Cable:** Connect the main power cable. Thread the power cable upwards from the main unit compartment to the top layer. Leave other connecting cables in the middle layer.
- 12. Connect Rear-View Camera (Optional):** If your car has a rear-view camera, connect its line to the wiring harness. Ensure the 'Rear-Camera-PWR' line is tapped and wrapped securely to prevent short circuits.
- 13. Connect USB Cable:** Connect the USB cable. It is recommended to thread it from the passenger side to the air conditioning panel compartment, and then upwards to the top layer.
- 14. Connect Power Adapter Cable:** Take out the power adapter cable and connect it to the original power cable. Connect the original car's fiber optic audio cable to the other end of the power cable, then connect them together to the original car's main unit.
- 15. Reinstall Original Main Unit:** Push the original car's main unit back into its compartment.
- 16. Connect AUX Cable (If no sound):** If your car does not produce sound when playing music, connect one end of the provided AUX cable to the AUX interface of the power cable and the other end to the AUX port of the main unit. (Note: If your car plays with sound, this cable may not be needed).
- 17. Connect New Display Unit Cables:** Insert the LVDS cable, USB cable, and power cable into the corresponding ports on the new AINAVITO display unit.
- 18. Install New Display Unit:** Align the new unit with the holes on the dashboard and insert it to secure it.
- 19. Test Functionality:** Start the car and test if all functions are working properly. Check the original car's iDrive knob for normal operation.
- 20. Adjust Screen Resolution (If needed):** If the screen displays incorrectly, access the resolution options by clicking the small arrow on the right side of the screen. Select an appropriate resolution (e.g., 800*480*full) to correct the display.
- 21. Switch Audio Output:** Switch the audio output to AUX. Insert a USB flash drive to test if the USB is working.
- 22. Reinstall Air Conditioning Control Panel:** Fasten the four fixing screws for the air conditioning control panel. Reinstall the bottom cover.
- 23. Reconnect Hazard Warning Light and Sensor:** Find the hazard warning light wiring harness and the air conditioning sensor line. Connect these two plugs.
- 24. Reinstall Air Conditioning Vent Cover:** After organizing the rear wiring, put the vent face frame back on. Press the hazard warning light button back in place.

5. OPERATING INSTRUCTIONS

The AINAVITO 10.25 Inch CarPlay Screen Radio offers a range of features designed for intuitive use.

- **Seamless Connectivity:** Effortlessly connect via Wireless/Wired CarPlay, Android Auto, AirPlay, or MirrorLink. Stream navigation, music, and calls directly to the 10.25" HD screen.
- **Retained OEM Controls:** The unit retains OEM iDrive knob, Bluetooth, and steering wheel controls for a familiar and intuitive experience.
- **Dual OS + iDrive Control:** Retain original BMW radio functions while adding advanced features with Linux system support. Fully compatible with iDrive knob control, Bluetooth, OEM rear camera, radar, and steering wheel controls.
- **Vehicle Data Display:** Display essential car data like speed, fuel, oil pressure, and safety warnings directly on the screen. Switch between modes to view additional info, including temperature, gear, and RPM.
- **Customizable Sound & Background:** Adjust audio settings with 4 EQ modes (Standard, Fashion, Classical, Jazz) and customize sound effects. Change the background image to suit your style.
- **GPS Navigation:** Supports online and offline maps, allowing navigation while listening to music or radio.
- **High-Resolution Display:** Experience crisp 1920x720 resolution on a 10.25" touchscreen. Watch 1080P videos and enjoy clearer reversing images.
- **Rear View Camera Support:** Supports OEM 6-pin LVDS screen and OEM rearview camera (optional 720P AHD upgrade), offering superior clarity compared to standard CVBS cameras.



Wireless CarPlay



CarPlay Compatible with Mobile App.



Android Auto



Android Auto Compatible with Mobile App.



Image: Wireless CarPlay and Android Auto Interface.

Retain OEM System Function



Support Steering Wheel Control



iDrive System Retained



Retains Original CD Player



Retains Amplifier System



Support Original Backup Camera



Support Bluetooth

Image: Retained OEM System Functions.

6. TROUBLESHOOTING

- **No Sound:** If there is no sound when playing music, ensure the AUX cable is correctly connected from the power cable's AUX interface to the main unit's AUX port. Also, verify that the car's audio output is switched to AUX.
- **Screen Display Issues (e.g., Green Screen):** If the screen displays incorrectly, access the resolution options by clicking the small arrow on the right side of the screen. Select an appropriate resolution (e.g., 800*480*full) to correct the display.
- **Original Controls Not Working:** Ensure all wiring harnesses, especially those for the air conditioning control panel and main unit, are securely connected. Double-check the fiber optic audio cable connection.
- **Rear View Camera Issues:** Verify that the rear-view camera line is correctly connected to the wiring harness and that the 'Rear-Camera-PWR' line is properly tapped and insulated.

7. SPECIFICATIONS

Feature	Detail
Model Number	Linux-BMW3
Screen Size	10.25 Inches
Resolution	1920x720
Operating System	Linux
Connectivity Technology	Bluetooth, USB, Wireless/Wired (CarPlay + Android Auto)
Special Features	Supports original car features, Touchscreen 2.5 HD Screen, USB music and video play, wireless/wired CarPlay, wireless/wired Android Auto
Audio Output Mode	Stereo
Touch Screen Type	Capacitive
Item Weight	3.23 pounds (1.47 Kilograms)
Package Dimensions	12.8 x 11.26 x 5.2 inches

10.25" IPS Touch Screen 1920*720 Resolution

The device is equipped with an 10.25" IPS touch screen using G+G technology. IPS offers a wide viewing angle with great colors, G + G makes the screen durable and touch -sensitive, With a 1920*720 high resolution, images and texts are clear.



1920*720 Resolution



IPS Technology



10.25" Touch Screen



Glass to Glass



Image: 10.25" IPS Touch Screen with 1920x720 Resolution.

8. WARRANTY AND SUPPORT

AINAVITO is committed to providing excellent customer support. If you have any questions related to product use, settings, or installation, professional engineering guidance is available.

- **Product Support:** Contact AINAVITO engineers for assistance. You can typically find support options through your order center or by contacting the seller directly.
- **Response Time:** Expect a reply within 24 hours for inquiries.



Image: AINAVITO Customer Support.

