

XTRONS NBT iDrive 4.0 4+64GB

XTRONS 10.25 Inch Android 14 Car Stereo User Manual

Model: NBT iDrive 4.0 4+64GB

Brand: XTRONS

1. INTRODUCTION AND APPLICABLE MODELS

This manual provides detailed instructions for the installation, setup, and operation of your XTRONS 10.25 Inch Android 14 Car Stereo. This advanced head unit offers enhanced clarity, vibrant colors, and a high-resolution touchscreen for an optimized driving experience.

Applicable Models & Years:

- For BMW 3 Series F30 F31 F34 (2013-2016) NBT system
- For BMW 4 Series F32 F33 F36 (2013-2016) NBT system
- For BMW M3 F80 F81 (2013-2019)
- For BMW M4 F82 F83 (2013-2019)

Applicable Models

For BMW 3 Series F30/F31/F34 (2013-2016)
For BMW 4 Series F32/F33/F36 (2013-2016)

For BMW M3 F80 F81 (2013-2019)
For BMW M4 F82 F83 (2013-2019)

Before



After



Compatible System



NBT system



6 PIN LVDS Port



NBT Interface



Media button



Touch pad controller



CCC system



10 PIN LVDS Port

CCC Interface



CD button
and DVD slot



CIC system



4 PIN LVDS Port

CIC Interface



CD button

Figure 1.1: Applicable BMW Models and Compatible System Overview. This image illustrates the dashboard of a BMW F30/F32 series before and after the XTRONS stereo installation, highlighting the visual upgrade. It also details the compatible NBT system components, including the 6 PIN LVDS Port, NBT Interface, Media button, and Touch pad controller, while explicitly showing incompatibility with CCC and CIC systems.

2. KEY FEATURES

- **10.25" IPS Screen:** Experience enhanced clarity and vibrant colors with a 1920*720 high-resolution touchscreen. Supports 1080p format video playback for easy visibility and access to all options.
- **Built-in Wireless CarAutoPlay / Android Auto:** Access GPS, calls, music, Google Assistant, and Siri from your mobile phone for a connected and safer driving experience. Compatible with iPhone 5 and newer (iOS 8+) and Android phones (Android 4.3+).
- **Bluetooth 5.0 & Dual Band Wi-Fi:** Connect your smartphone via Bluetooth for hands-free calls, contact searching, and music streaming. Dual-band Wi-Fi (2.4GHz and 5GHz) ensures flexible and seamless internet connectivity.
- **Global 4G LTE:** Insert a Micro-SIM card for mobile broadband connection anywhere, with download

speeds up to 300Mbps. Supports 99% of carriers worldwide.

- **Retain iDrive and Original Functions:** Maintains iDrive system control and full range of original functions (supported in both original and Android systems). Multiple user interfaces are available.
- **Split-Screen Mode:** Use two apps side-by-side, such as Spotify for music while navigating.



Figure 2.1: Optimized Driving Experience with New Technology. This image showcases the XTRONS stereo's key features including Wireless CarPlay, Android Auto, Screen Mirroring, and Bluetooth connectivity, enhancing the in-car experience.

Multiple Styles of UI Themes to Choose From



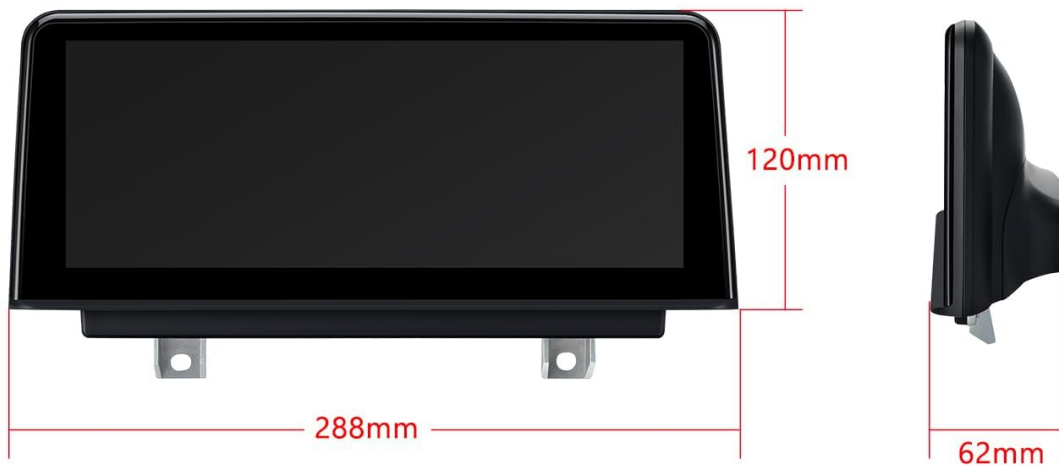
Figure 2.2: Retain iDrive and Original Functions. This image highlights the XTRONS stereo's ability to retain essential original BMW functions such as the iDrive system, amplifier system, original radio, CD, Bluetooth, backup camera display, and steering wheel controls.

3. PACKAGE CONTENTS

The following accessories are included in your XTRONS 10.25 Inch Android 14 Car Stereo package:

- 1 × ISO Wiring Harness
- 1 × USB Cable
- 1 × 4G Antenna
- 1 × GPS Antenna
- 1 × Tweezers
- 1 × Mini Speaker
- 1 × Installation Instructions
- 1 × User Manual

Size



Accessories



ISO Wiring Harness



USB Cable



GPS Antenna



4G Antenna



Mini Speaker



Tweezers



Installation Instruction



User Manual

Figure 3.1: Included Accessories. This image displays all components provided in the product package, including the main unit, wiring harness, antennas, tools, and documentation.

4. INSTALLATION GUIDE

Follow these steps carefully for proper installation of your XTRONS car stereo. It is recommended to consult a professional if you are unsure about any step.

4.1 Wiring Harness Overview

Wiring Harness



- | | |
|-------------------------------------|------------------------------|
| 1. ISO Wiring Harness 1 | 9. CAM IN, Camera Input |
| 2. ISO Wiring Harness 2 | 10. MIC, Microphone Port |
| 3. Microphone port | 11. Mini Speaker |
| 4. AUX OUT, Connect to original AUX | 12. USB1, USB Port 1 |
| 5. reserved port for protocol | 13. USB2 Carplay, USB Port 2 |
| 6. ACC | 14. 4G Antenna |
| 7. P-CAM, Camera Power Cable | 15. GPS Antenna |
| 8. Reversing Check | 16. LVDS Port |

Figure 4.1: Wiring Harness Diagram. This diagram labels each component of the wiring harness, including ISO Wiring Harness, USB Cables, Microphone Port, AUX OUT, 4G Antenna, GPS Antenna, and LVDS Port, to guide proper connections.

4.2 Installation Steps

1. **Remove Original Components:** Carefully pry out the air-conditioning trim panel and the original host panel. Disconnect all associated plugs and remove the original display screen.
2. **Connect Wiring:** Connect the provided Linux ISO harness to the stock main unit. Ensure all connections are secure.
3. **Route Cables:** Thread the USB harness plug to the base of the display and lay the female end of the USB connection cable into the passenger compartment.
4. **Install New Display:** Connect the plugs of the Linux ISO harness and USB harness to the back of the Linux device. Connect the stock LVDS male connector to the back connector of the Linux device. Install the Linux device to the base of the original display and lock the screws to secure it.
5. **Reinstall Panels:** Restore the connection plugs on the back of the air conditioning trim panel and the main engine panel. Put all panels back in their original positions.

4.3 Installation Videos

Refer to the following videos for visual guidance on the installation process:

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Video 4.1: Install video For BMW 3&4 Series with NBT System. This video provides a step-by-step guide on how to install the XTRONS unit in BMW 3 and 4 Series vehicles equipped with the NBT system.

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Video 4.2: How to install Autoabc Touchscreen Multimedia Radio for BMW. This video demonstrates the installation process for a touchscreen multimedia radio in a BMW, which is relevant for the XTRONS unit.

5. SETUP AND OPERATING INSTRUCTIONS

After successful installation, follow these instructions to set up and operate your car stereo.

5.1 Initial Setup and Connectivity

- **Bluetooth Pairing:** Connect your smartphone via Bluetooth 5.0 for hands-free calls and audio streaming.
- **Wi-Fi Connection:** Connect to 2.4GHz or 5GHz Wi-Fi networks for internet access and app downloads.
- **CarPlay / Android Auto:** The unit supports built-in wireless CarAutoPlay and wired Android Auto. Ensure your phone's Bluetooth is connected for seamless integration.

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Video 5.1: Carplay Function for XTRONS QLB 14.9 Series. This video demonstrates the CarPlay functionality of XTRONS units, providing insight into its operation and features.

5.2 Basic Operation and Features

- **Touchscreen Interface:** Navigate through menus and apps using the responsive 10.25-inch IPS touchscreen.
- **Split-Screen Mode:** Run two applications simultaneously, such as navigation and music playback.
- **GPS Navigation:** Utilize supported Android OS navigation software like Google Maps, Sygic, or Waze.
- **App Usage:** Download and use various Android applications, including streaming services and utility apps.
- **OEM System Integration:** Access original iDrive system controls and vehicle information directly through the new display.

Retain iDrive and Original Functions

iDrive System

Retains the iDrive system control to allow ease of access to the full range of functions and navigation.



Amplifier System

Retains original fiber optic sound system.



Original Radio



Original CD



Original Bluetooth



Backup Camera Display



Steering Wheel Control

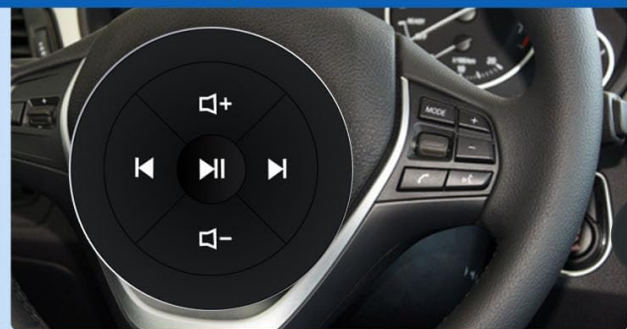


Figure 5.1: Original Car Information Display. This image shows how the XTRONS stereo integrates with the vehicle to display crucial original car information such as speed, engine speed, remaining fuel, temperature, parking brake status, and seat belt reminder.

Boost Productivity Split Screen

Run two apps side by side. Now you can keep Spotify and YouTube on the same screen.



Enjoy Movies in Car 1080P Video

Support different codecs(H.265, H.264, MPEG 1/2/4, VP8) of videos with up to 1080p at 60fps.



Figure 5.2: Multiple Styles of UI Themes to Choose From. This image illustrates the variety of user interface themes available on the XTRONS stereo, allowing users to customize the look and feel of their display.

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Video 5.3: Main Features and Settings. This video provides a comprehensive overview of the main features and settings of the XTRONS unit, guiding users through customization and functionality.

6. MAINTENANCE

To ensure the longevity and optimal performance of your XTRONS car stereo, follow these maintenance guidelines:

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the touchscreen. Avoid abrasive cleaners or harsh chemicals that could damage the display.
- **Software Updates:** Periodically check for firmware updates from XTRONS to ensure you have the latest features and bug fixes.
- **Cable Connections:** Ensure all cables are securely connected and free from damage. Loose connections can lead to intermittent issues.

7. TROUBLESHOOTING

If you encounter any issues with your XTRONS car stereo, refer to the following troubleshooting tips:

- **No Sound Issue:** If there is no sound, ensure the AUX harness is correctly connected and the car's audio input is set to AUX. Adjust the volume knob on the original car interface.
- **Screen Display Problems:** If the screen display is not correct (e.g., distorted, incorrect resolution), navigate to the settings menu and adjust the screen resolution to an appropriate option.
- **Bluetooth Connectivity:** If Bluetooth is not connecting, ensure the