

AINAVI 12.3A-X5CIC

AINAVI 12.3-inch Android Touch Screen User Manual

Model: 12.3A-X5CIC for BMW X5 E70 & X6 E71 (2011-2013) CIC System

1. PRODUCT OVERVIEW

This manual provides instructions for the AINAVI 12.3-inch Android Touch Screen, model 12.3A-X5CIC. This unit is designed to upgrade the infotainment system in specific BMW models while retaining original vehicle functionalities.

Your browser does not support the video tag.

This video provides a general overview of the AINAVI 12.3-inch Android Touch Screen, showcasing its features and interface.

1.1 Key Features

- 12.3-inch QLED display with 2400*900 HD resolution.
- Built-in DSP processing chips and 30-band EQ for audio customization.
- Supports AHD 1080P aftermarket backup cameras.
- Integrated Wireless CarPlay and Wired Android Auto.
- Dual system operation: retains original car CD system functions and adds Android system features.
- Retains original iDrive Knob control, Bluetooth, Radio, OEM rear camera, Radar, and steering wheel controls.
- Displays vehicle information such as speed, fuel level, and oil pressure.
- Bluetooth v2.1 + EDR, v5.1 Low Energy (LE) for audio streaming, automatic phone book transfer, and hands-free calls.

1.2 Compatibility

Exclusively designed for BMW X5 E70 and X6 E71 models from 2011-2013 with the CIC system and a 4-Pin

LVDS connector. **Important:** Not compatible with CCC systems (10-Pin LVDS) or NBT systems (6-Pin LVDS).

Applicable Models & Years

For BMW X5 E70 (2011-2013) CIC System

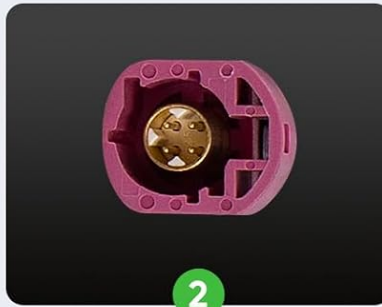
For BMW X6 E71 (2011-2013) CIC System



How to check CIC system



For BMW original
system UI



4-Pin LVDS port
at the OEM screen



CD button on
idrive controller

This image illustrates the applicable BMW models (X5 E70, X6 E71, 2011-2013 CIC System) and provides visual guidance on how to identify a CIC system, including checking the original system UI, the 4-Pin LVDS port at the OEM screen, and the CD button on the iDrive controller.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x 12.3" Touch Screen Car Radio
- 1 x ISO Wiring Harness

- 1 x Fixed Frame
- 1 x Frame Removal Tool
- 1 x Tweezers
- 1 x Backup Speaker
- 1 x 4G Antenna
- 1 x GPS Antenna
- 2 x USB Cable
- 1 x Installation Guide
- 1 x User Manual (this document)



This image displays the complete set of accessories included with the AINAVI 12.3-inch Android Touch Screen, such as the screen itself, frame, wiring harness, antennas, USB cables, and tools.

3. SETUP AND INSTALLATION

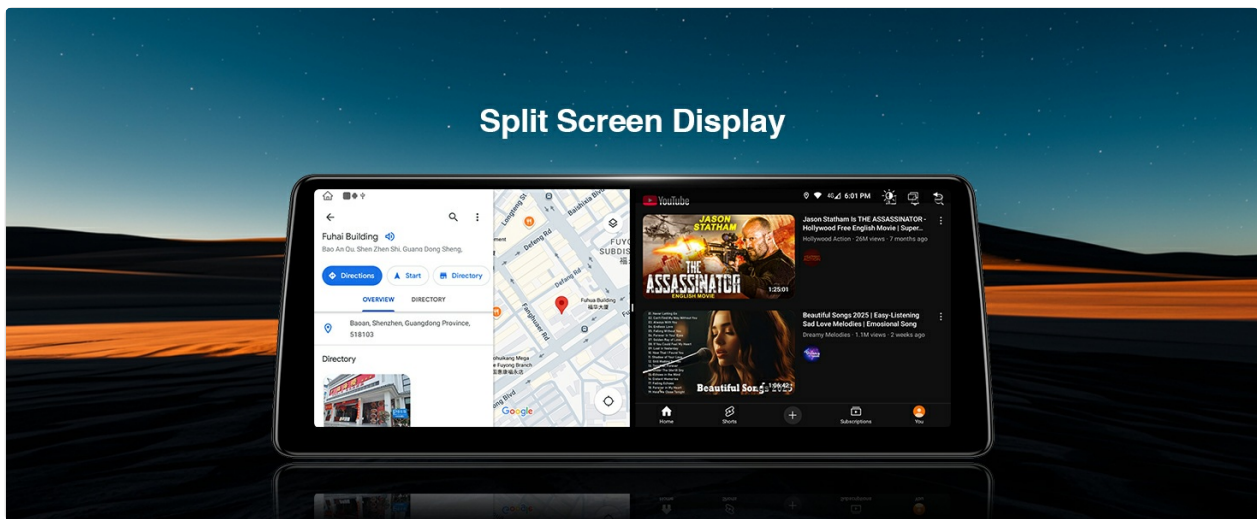
Professional installation is recommended. Refer to the included "Installation Guide" for detailed, step-by-step instructions specific to your vehicle model. This section provides a general overview.

3.1 Pre-Installation Checks

1. Ensure your vehicle is compatible (BMW X5 E70 / X6 E71, 2011-2013, CIC system with 4-Pin LVDS).
2. Disconnect the vehicle's battery before starting any electrical work.
3. Gather all necessary tools as specified in the Installation Guide.

3.2 General Installation Steps (Consult Installation Guide for details)

1. Remove the original car radio/display unit.
2. Connect the provided ISO wiring harness to the vehicle's existing wiring.
3. Connect the 4-Pin LVDS cable from the new unit to the vehicle's LVDS port.
4. Install the GPS and 4G antennas in suitable locations.
5. Mount the new 12.3-inch Android Touch Screen using the fixed frame.
6. Reconnect the vehicle's battery and test the unit.



This image illustrates the visual transformation of the car's dashboard after installing the 12.3-inch Android screen, showing a "Before" view with the original smaller screen and an "After" view with the larger, upgraded display.

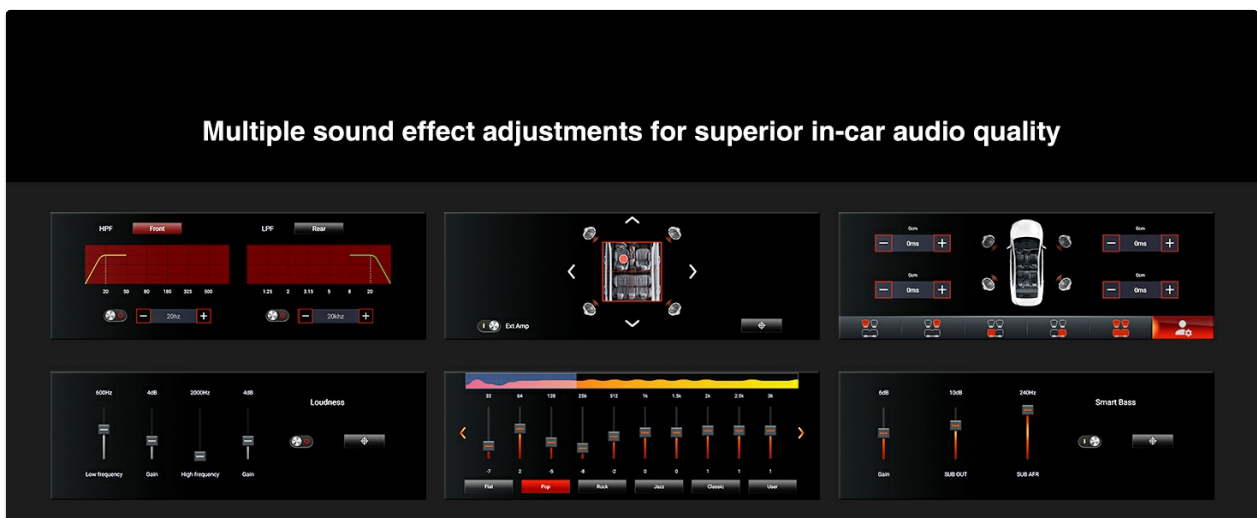
4. OPERATING INSTRUCTIONS

4.1 Power On/Off

The unit powers on automatically with the vehicle's ignition. To power off, turn off the vehicle's ignition. The unit will enter a standby mode or shut down completely based on vehicle settings.

4.2 Switching Between Systems

The unit operates with dual systems: the original BMW CIC system and the new Android system. You can easily switch between these two systems. Typically, a dedicated button or an on-screen icon allows for seamless transition. Refer to the on-screen interface for specific switching methods.



This image visually represents the seamless transition between the original car's infotainment system and the newly integrated Android system on the 12.3-inch display.

4.3 Wireless CarPlay & Android Auto

The unit supports both wireless CarPlay and wired Android Auto. To connect:

1. **Wireless CarPlay:** Enable Bluetooth and Wi-Fi on your iPhone. Pair your iPhone with the unit via Bluetooth. Follow on-screen prompts to activate CarPlay.
2. **Wired Android Auto:** Connect your Android phone to the unit using a USB cable. Ensure Android Auto is installed on your phone. Follow on-screen prompts.

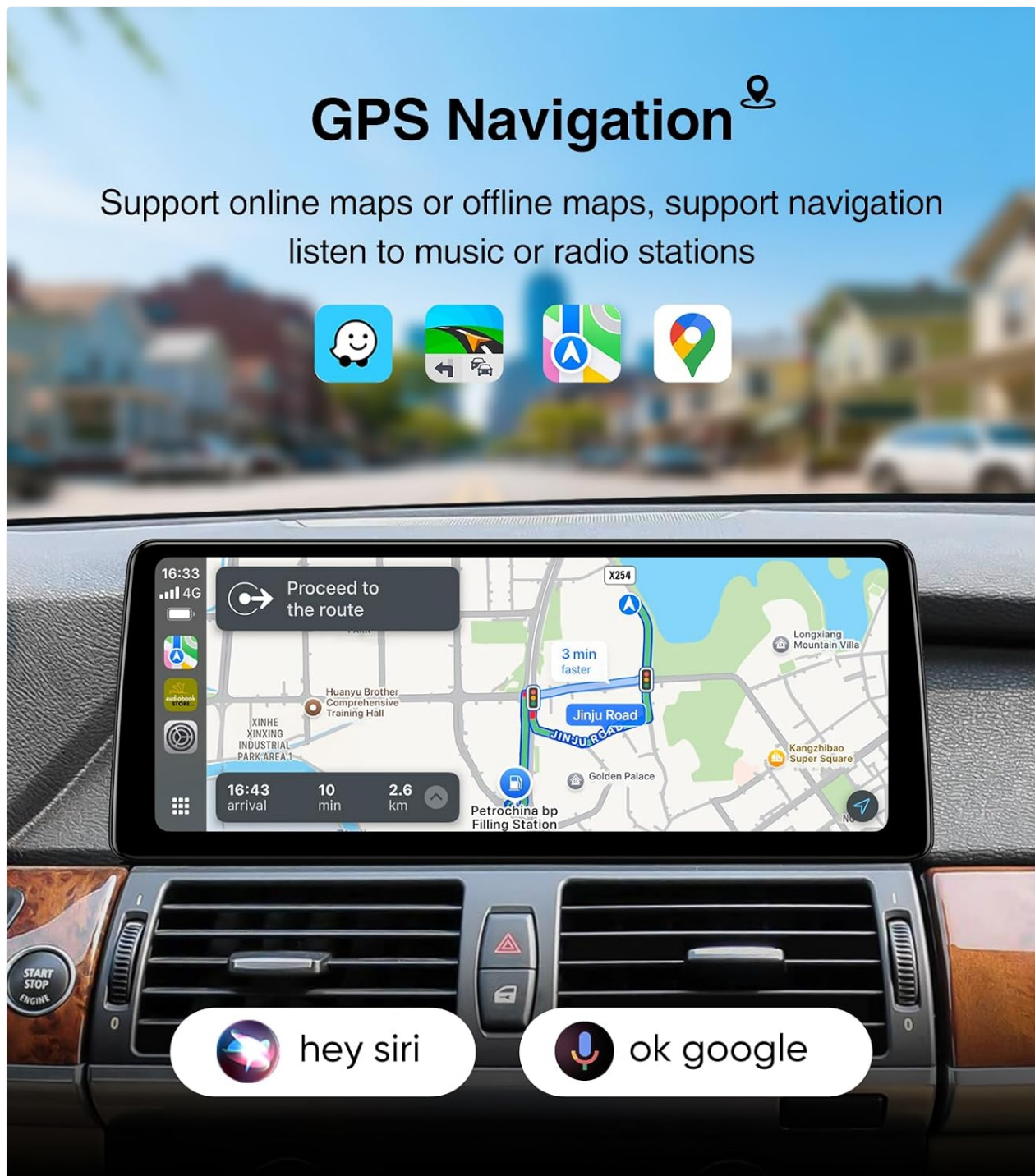
Once connected, you can access navigation, make calls, send/receive messages, and stream music directly from your smartphone.



This image displays the user interface for both Wireless CarPlay and Android Auto, showing various compatible applications like navigation, music, and messaging.

4.4 GPS Navigation

The unit supports both online and offline navigation applications. Ensure the GPS antenna is properly installed for optimal performance. You can use pre-installed navigation apps or download others from the Google Play



This image demonstrates the GPS navigation capabilities of the unit, displaying a map with a route and indicating support for voice commands like "Hey Siri" and "OK Google."

4.5 Bluetooth Connectivity

The unit features Bluetooth v2.1 + EDR and v5.1 Low Energy (LE). To pair a device:

1. Go to the Bluetooth settings on the Android system.
2. Enable Bluetooth on your device and search for available devices.
3. Select the unit's Bluetooth name (e.g., "AINAVI Car") and pair.

This enables audio streaming, automatic phone book transfer, and hands-free calling.

4.6 Audio Settings (DSP & EQ)

The built-in DSP processing chips and 30-band EQ allow for extensive audio customization. Access the audio settings menu to adjust equalizer presets, balance, fader, and other sound parameters to optimize your listening experience.



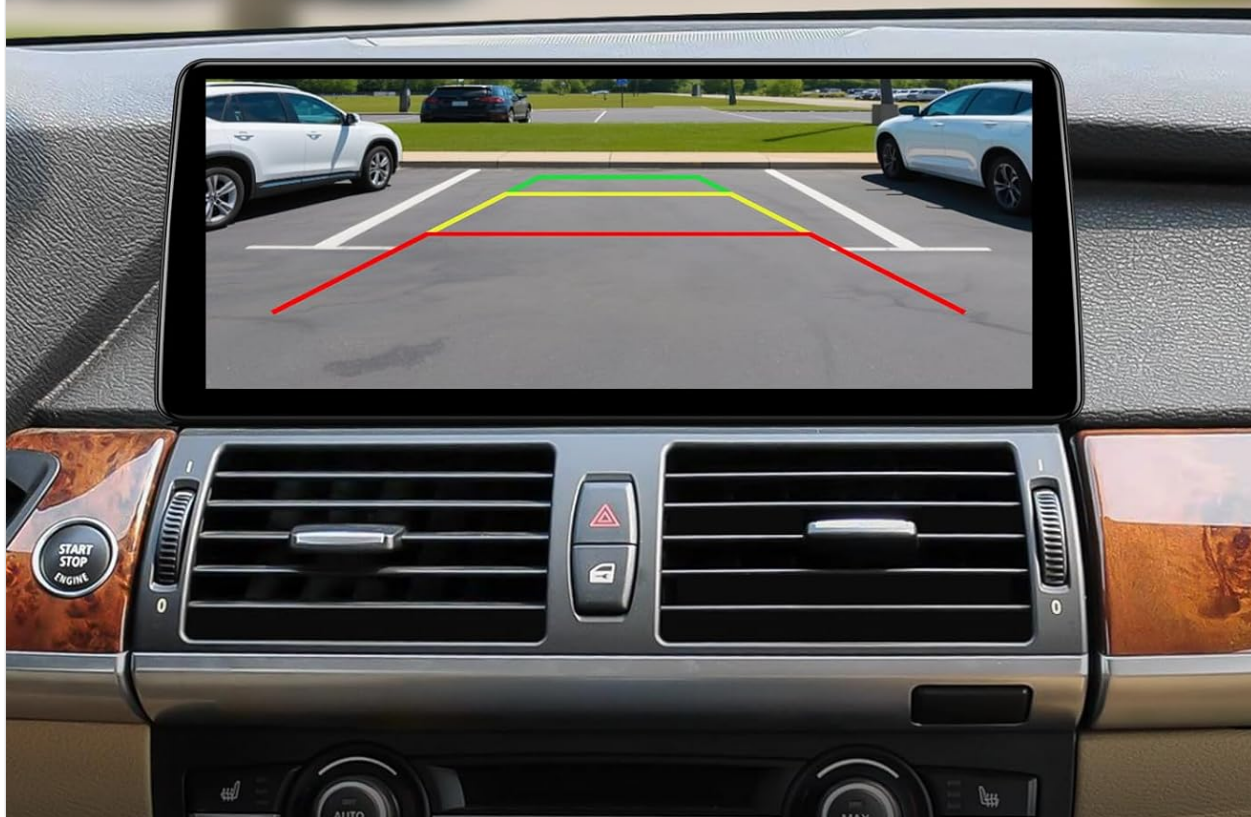
This image illustrates the multiple sound effect adjustments available, including equalizer settings, balance, and fader controls, for superior in-car audio quality.

4.7 Rear View Camera Support

The unit supports both OEM and aftermarket AHD 1080P backup cameras. When the vehicle is shifted into reverse, the camera feed will automatically display on the screen.



Support OEM & Aftermarket Rear View Cameras



This image shows the display of a rear view camera on the AINAVI screen, complete with parking guidelines, indicating support for both original and aftermarket cameras.

5. MAINTENANCE

- **Screen 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.
- **Software Updates:** Periodically check for software updates through the unit's settings menu or the manufacturer's website to ensure optimal performance and access to new features.
- **Environmental Conditions:** Avoid exposing the unit to extreme temperatures or direct sunlight for prolonged periods, as this may affect its lifespan and performance.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	Loose power connection, vehicle battery disconnected, blown fuse.	Check all wiring connections. Ensure vehicle battery is connected. Inspect vehicle fuses.
No sound from speakers.	Incorrect wiring, volume too low, mute activated, original amplifier not integrated.	Verify audio wiring. Increase volume. Check mute status. Ensure original amplifier is correctly connected and recognized.
CarPlay/Android Auto disconnects frequently.	Weak Wi-Fi/Bluetooth signal, interference, outdated phone OS, faulty USB cable (for wired AA).	Ensure phone is close to the unit. Minimize other wireless devices. Update phone OS. Try a different, high-quality USB cable.
Touch screen unresponsive.	Software glitch, screen calibration issue.	Restart the unit (turn vehicle off and on). If issue persists, perform a factory reset (consult support if unsure).
Original iDrive functions not working.	Incorrect LVDS connection, software conflict.	Recheck LVDS cable connection. Ensure the unit is correctly configured to integrate with the original system.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact customer support.

7. SPECIFICATIONS

Feature	Detail
Model Number	12.3A-X5CIC
Screen Size	12.3 inches
Display Resolution	2400*900 HD QLED
Connectivity	Bluetooth, USB, Wi-Fi, Wireless CarPlay, Wired Android Auto, 4G (SIM card not included)
Controller Type	Android
Special Features	Built-In Bluetooth, Built-In Wi-Fi, DSP, Equalizer, FM Tuner, GPS Navigation, Touchscreen, Hands-Free Calling, Subwoofer support, Retains BMW Original Sound System

Feature	Detail
Compatible Devices	iPhone, Android Phone
Audio Output Mode	Stereo
Item Weight	4.77 pounds (2.17 Kilograms)
Package Dimensions	16.1 x 8.66 x 7.09 inches

8. WARRANTY AND SUPPORT

8.1 Warranty Information

Specific warranty details are typically provided with your purchase documentation. Please refer to the warranty card or contact the seller for information regarding coverage and duration.

8.2 Customer Support

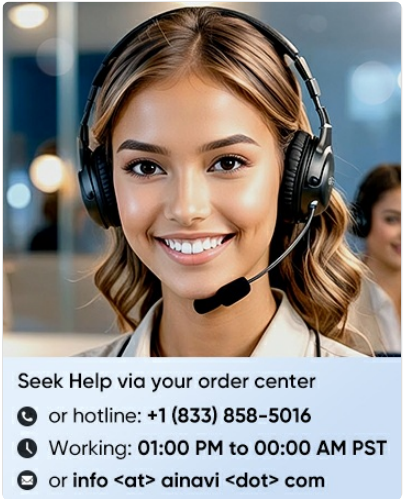
For technical assistance, installation queries, or troubleshooting, please contact AINAVI customer support. Support is available 24 hours for engineer assistance.

Phone: +1 (833) 858-5016

Working Hours: 01:00 PM to 00:00 AM PST

Email: info@ainavi.com

You can also seek help via your order center on the platform where you purchased the product.



This image shows a customer support representative and lists contact details for assistance, including phone number and email address.

