

## MekedeTech 4-Core 1+32G

# MekedeTech Android Car Radio Stereo GPS Navigation System

Model: 4-Core 1+32G for Toyota Avensis (2002-2008)

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## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MekedeTech Android Car Radio Stereo GPS Navigation system. This unit is designed as a direct replacement head unit for Toyota Avensis models manufactured between 2002 and 2008. It features a 9-inch touch screen, Android 13 OS, wireless CarPlay, and Android Auto functionality.

## 2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in injury or damage to the device or vehicle.

- **Professional Installation Recommended:** Due to the complexity of car electrical systems, professional installation is highly recommended.
- **Power Disconnection:** Always disconnect the vehicle's battery before beginning any installation or wiring work to prevent electrical shorts and damage.
- **Wiring:** Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- **Driving Safety:** Do not operate the device in a way that distracts you from driving. Always prioritize road safety.
- **Temperature:** Avoid exposing the unit to extreme temperatures or direct sunlight for prolonged periods.
- **Cleaning:** Use a soft, dry cloth for cleaning the screen and unit. Avoid abrasive cleaners or solvents.

## 3. PACKAGE CONTENTS

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

- MekedeTech Android Car Radio Stereo Head Unit
- Dash Kit (for Toyota Avensis 2002-2008)

- Power Cable
- RCA Cable
- Reversing Camera Cable
- USB Cables (multiple)
- User Manual (this document)

## 4. SETUP AND INSTALLATION

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This unit is designed for a plug-and-play installation in Toyota Avensis models from 2002 to 2008. The included dash kit and cables facilitate a direct replacement of your original head unit.

### 4.1. Pre-Installation Steps

1. **Disconnect Battery:** Before starting, disconnect the negative terminal of your vehicle's battery.
2. **Remove Original Head Unit:** Carefully remove the trim panels and screws securing your existing car radio. Refer to your vehicle's service manual for specific instructions on removing the original unit.
3. **Unplug Cables:** Disconnect all cables from the back of the original head unit.

### 4.2. Connecting the New Head Unit

Connect the provided cables to the MekedeTech head unit and your vehicle's wiring harness. The included dash kit will ensure a seamless fit into your dashboard.

- **Power Cable:** Connect the main power harness to the vehicle's power supply.
- **RCA Cables:** Connect RCA cables for external amplifiers or subwoofers if applicable.
- **Reversing Camera Cable:** Connect the reversing camera input cable to your vehicle's reverse camera system.
- **USB Cables:** Route the USB cables to a convenient location for connecting external devices.
- **Antenna:** Connect the radio antenna cable.



*Image 4.2.1: The MekedeTech Android Car Radio installed in a Toyota Avensis dashboard, showing the CarPlay interface. This image illustrates the integrated appearance of the unit once installed.*

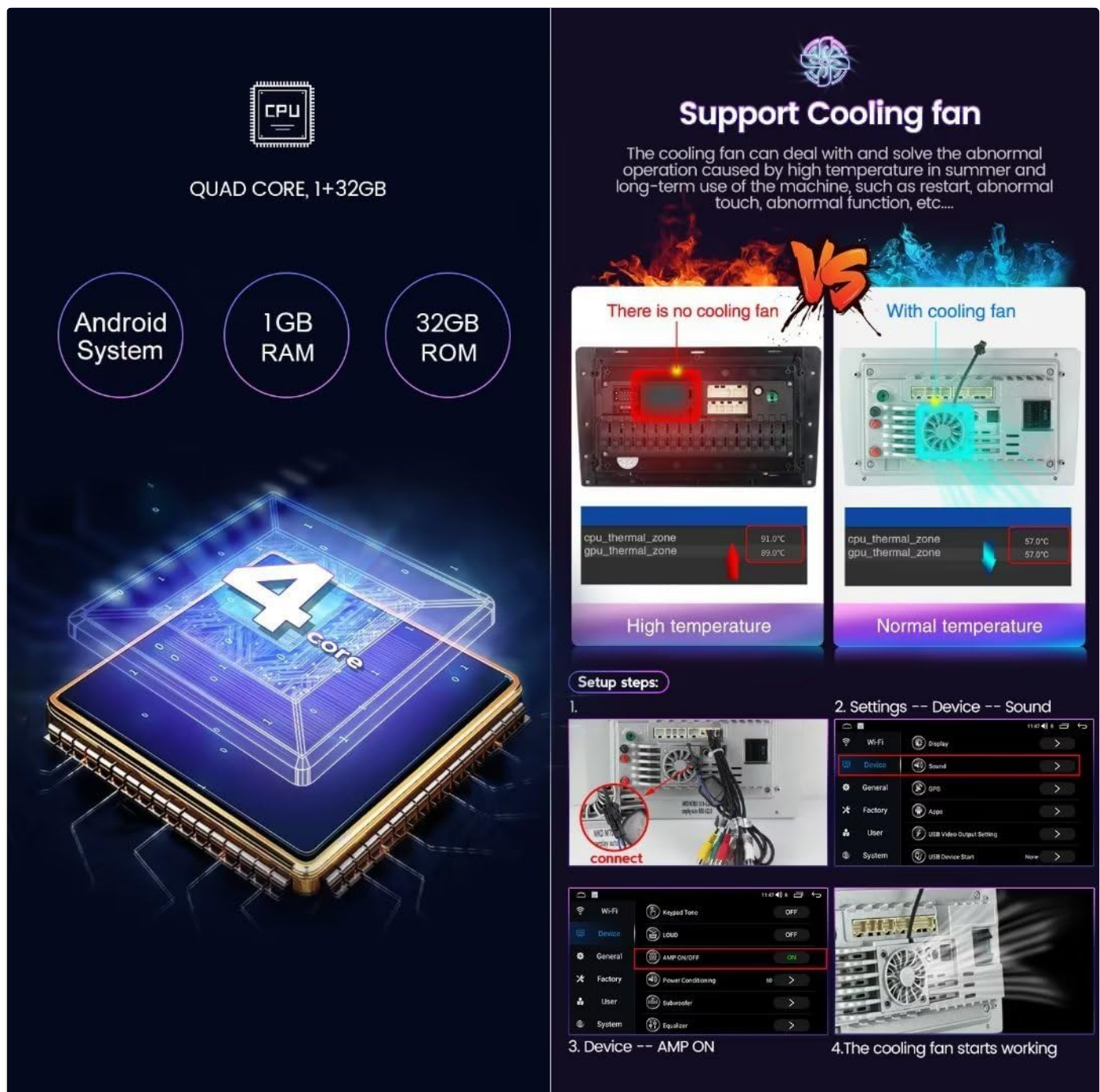


Image 4.2.2: A comparison showing the original Toyota Avensis dashboard and the MekedeTech unit's interface with CarPlay. This helps visualize the upgrade.

### 4.3. Securing the Unit

1. **Mount Unit:** Carefully slide the new head unit into the dashboard opening, ensuring all cables are not pinched.
2. **Secure Screws:** Fasten the unit using the original screws or those provided with the dash kit.
3. **Reinstall Trim:** Reattach any removed trim panels.
4. **Reconnect Battery:** Reconnect the negative terminal of your vehicle's battery.

## 5. OPERATION

This section details the primary functions and how to operate your MekedeTech Android Car Radio.

### 5.1. Power On/Off and Basic Interface

Press the power button (usually located on the front panel) to turn the unit on or off. The 9-inch IPS touch screen provides

a responsive interface for navigating the Android 13 operating system.

## 5.2. Wireless CarPlay and Android Auto

The unit supports both wireless CarPlay (for iOS devices) and wired Android Auto (for Android devices).

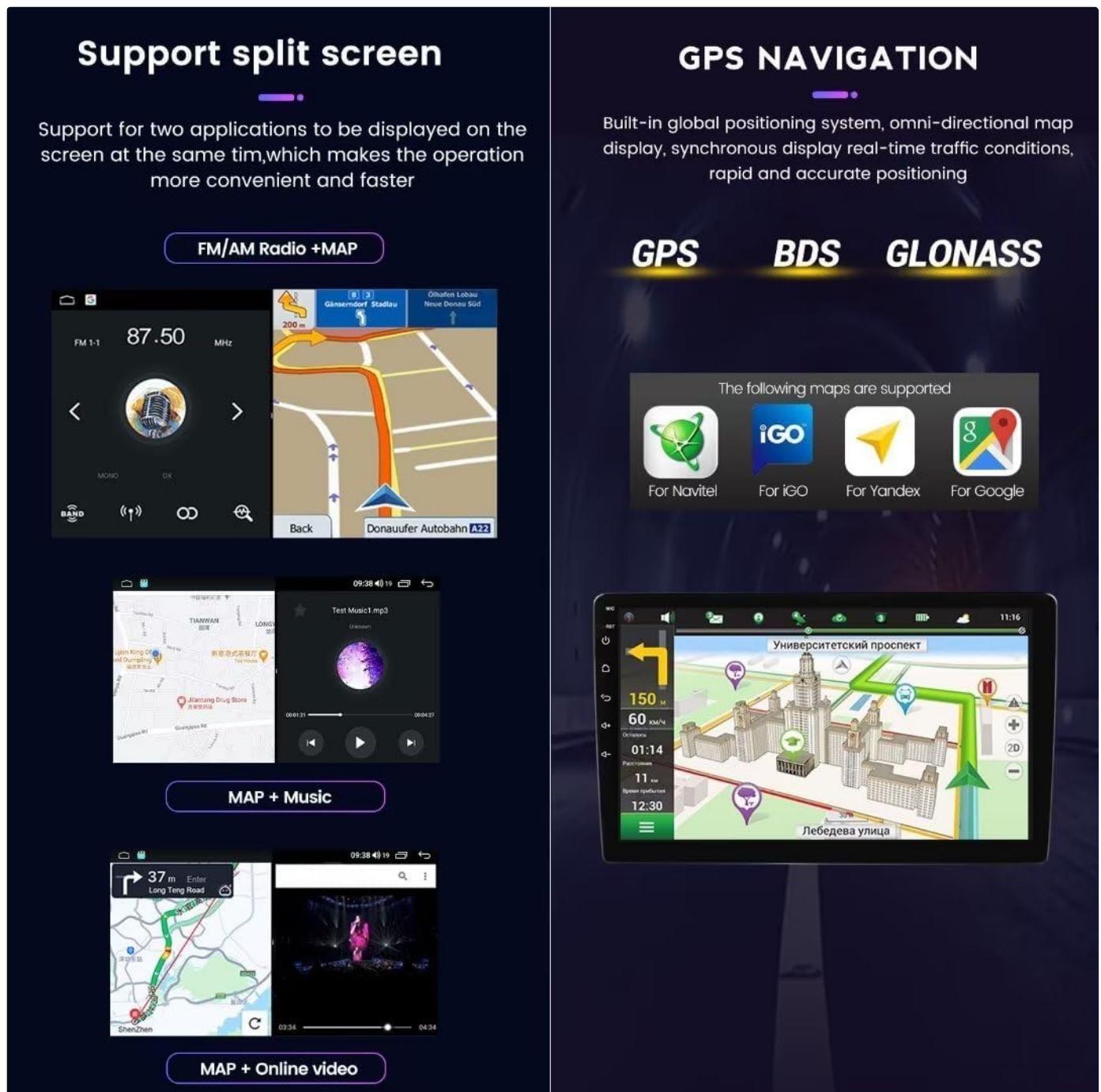


Image 5.2.1: Visual guide for connecting Wireless CarPlay (iOS system) and Wireless Android Auto (Android system).

### 5.2.1. Wireless CarPlay (iOS System) Connection Steps:

1. Connect your iPhone to the unit via Bluetooth.
2. On the unit's screen, select "Car Link" and wait for the connection to establish.
3. CarPlay can also be connected via a USB cable for a wired connection.

### 5.2.2. Wireless Android Auto (Android System) Connection Steps:

1. Connect your Android phone to the unit via Bluetooth.
2. On the unit's screen, select "Car Link" and wait for the connection to establish.
3. Android Auto can also be connected via a USB cable for a wired connection.

### 5.3. GPS Navigation

The unit features a built-in global positioning system (GPS) with omni-directional map display. It supports various map applications for real-time traffic conditions and accurate positioning.

- **Supported Systems:** GPS, BDS, GLONASS.
- **Supported Maps:** The unit is compatible with popular navigation apps such as iGo, Navitel, Yandex, and Google Maps.

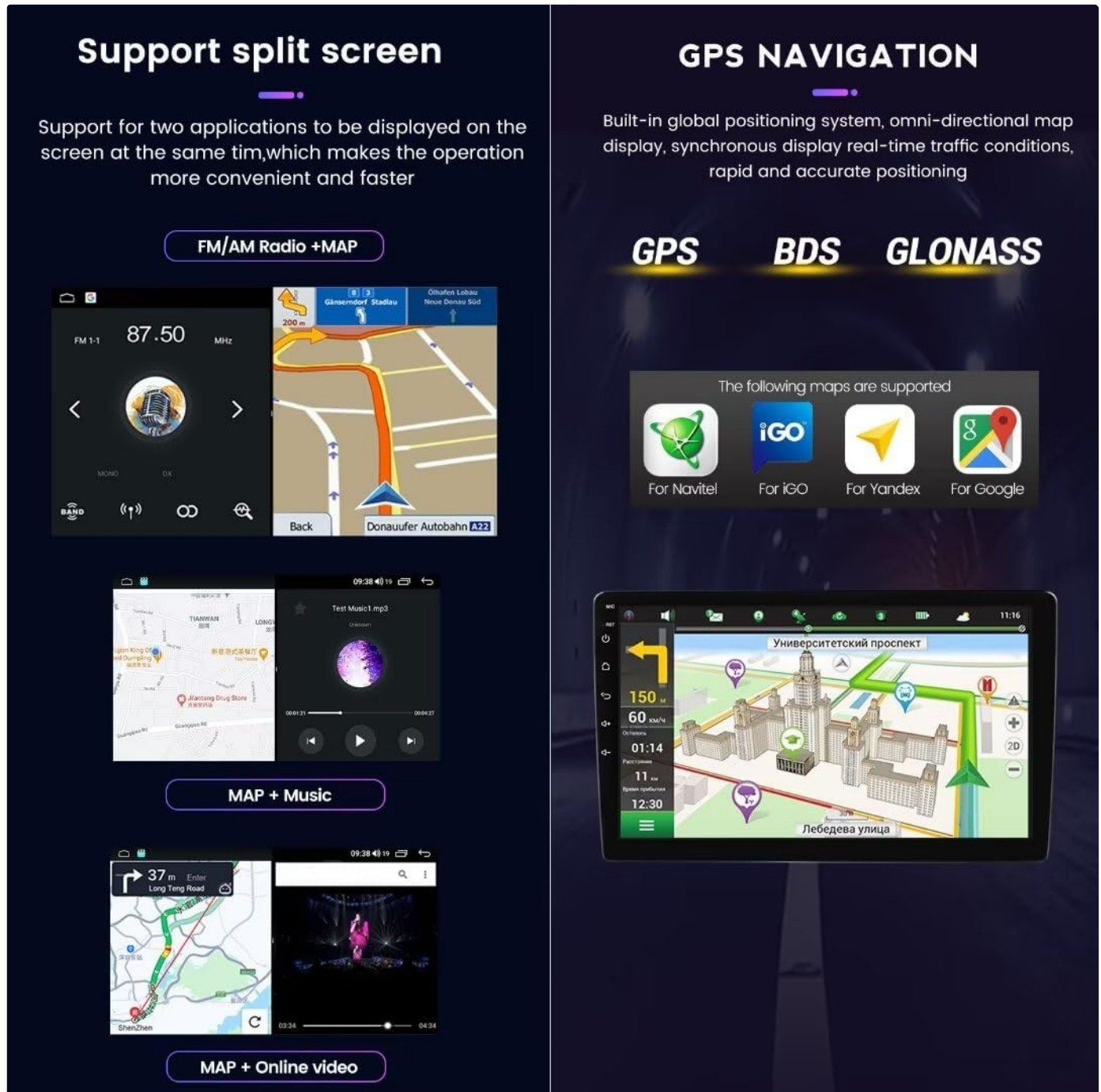


Image 5.3.1: The GPS Navigation interface displaying various map applications and route guidance.

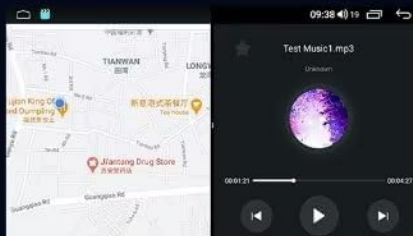
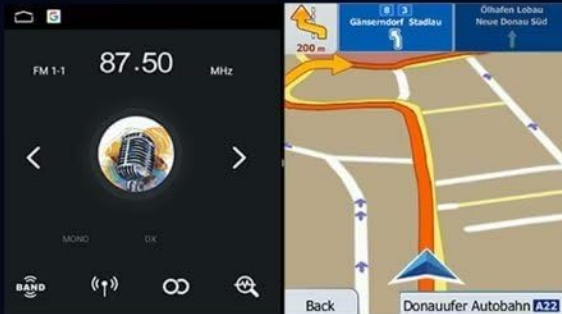
### 5.4. Split Screen Functionality

The unit supports displaying two applications simultaneously on the screen, enhancing convenience and multitasking. For example, you can view navigation and play music at the same time.

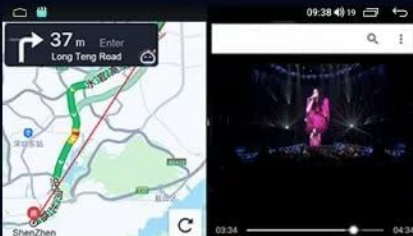
## Support split screen

Support for two applications to be displayed on the screen at the same time, which makes the operation more convenient and faster

### FM/AM Radio +MAP



### MAP + Music



### MAP + Online video

## GPS NAVIGATION

Built-in global positioning system, omni-directional map display, synchronous display real-time traffic conditions, rapid and accurate positioning

**GPS**

**BDS**

**GLONASS**

The following maps are supported



For Navitel



For iGO



For Yandex



For Google

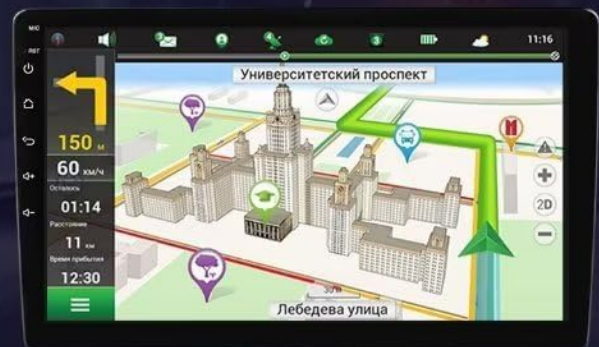


Image 5.4.1: Illustration of the split screen feature, showing a map application alongside a music player.

## 5.5. Bluetooth 5.0

The built-in Bluetooth 5.0 module allows for hands-free calls and wireless music streaming from your smartphone.

- **Pairing:** Enable Bluetooth on your phone and search for the unit's Bluetooth name. Pair the devices using the provided PIN (if any).
- **Hands-Free Calling:** Make and receive calls directly through the unit's interface.
- **Audio Streaming:** Play music from your phone through the car's speakers.

## 5.6. Steering Wheel Control

The unit retains original steering wheel control functionality, allowing you to switch songs, change channels, and adjust volume without taking your hands off the steering wheel. This feature enhances convenience and safety.

## 5.7. FM Radio

Access the FM radio function to listen to your favorite stations. The unit supports standard FM frequencies.

## 5.8. Media Playback

The unit supports various audio and video formats for playback from connected USB devices or internal storage.

- **Audio Formats:** APE, FLAC, WAV, MP3, WMA, etc.
- **Video Formats:** MKV, RMVB, AVI, MP4, MDV, etc. (supports 1080P video playback).
- **Picture Formats:** PNG, JPEG, JPG, GIF, WBMP, BNP, etc.

## 5.9. WiFi Connectivity

The built-in WiFi module allows the unit to connect to the internet via a WiFi hotspot (e.g., from your smartphone) for online navigation, app downloads, and other internet-dependent functions.

# 6. MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your car radio.

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the touch screen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Do not spray liquids directly onto the screen.
- **General Cleaning:** Keep the unit free from dust and debris. Use a soft brush or compressed air to clean vents and buttons.
- **Software Updates:** Periodically check for software updates from the manufacturer to ensure optimal performance and access to new features.
- **Avoid Liquids:** Prevent liquids from entering the unit, as this can cause severe damage.

# 7. TROUBLESHOOTING

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This section addresses common issues you might encounter and provides solutions.

## 7.1. Unit Does Not Power On

- Check all power connections to ensure they are secure.
- Verify that the vehicle's battery is properly connected and charged.
- Check the vehicle's fuse box for any blown fuses related to the car stereo.

## 7.2. No Sound

- Ensure the volume is not muted or set to a very low level.
- Check speaker wire connections.
- Verify audio settings in the unit's menu.

## 7.3. GPS Signal Issues

- Ensure the GPS antenna is properly installed and has a clear view of the sky.
- Move the vehicle to an open area away from tall buildings or dense foliage.

## 7.4. Overheating and Cooling Fan

The unit is equipped with a cooling fan to manage internal temperatures, especially during prolonged use or in hot environments. If the unit experiences abnormal temperatures, the cooling fan will activate.

# Built-in Car-Play + Auto

car dvd player comes with car-play function, no need to purchase additional accessories.

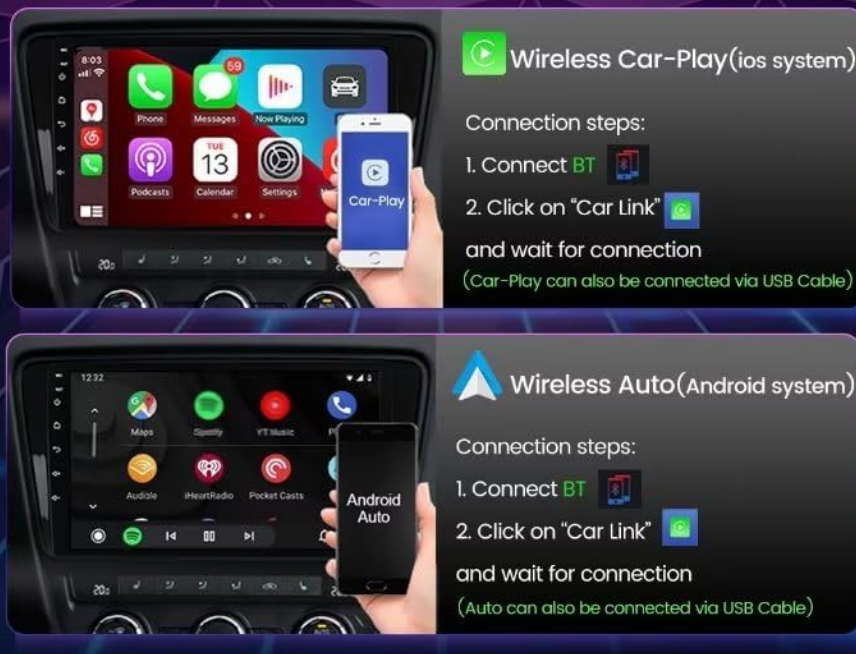


Image 7.4.1: Diagram illustrating the cooling fan system and setup steps to ensure its proper function. The image shows temperature comparisons with and without the cooling fan.

## Cooling Fan Setup Steps:

1. **Connect Fan:** Ensure the cooling fan is properly connected to the unit.
2. **Access Settings:** Navigate to **Settings > Device > Sound**.
3. **Enable AMP ON:** In the device settings, locate and enable the "AMP ON" option.
4. **Fan Activation:** The cooling fan will start automatically when needed to maintain optimal operating temperature.

## 8. SPECIFICATIONS

Key technical specifications of the MekedeTech Android Car Radio Stereo GPS Navigation system:

|        |               |
|--------|---------------|
| System | Android 13 OS |
|--------|---------------|

|                     |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| CPU                 | 4-Core A53 1.7GHz                                                                                            |
| Memory              | 1GB RAM, 32GB ROM                                                                                            |
| Display Size        | 9 Inches                                                                                                     |
| Display Resolution  | 1024x600 IPS Touch Screen                                                                                    |
| Power Output        | 4*50W                                                                                                        |
| Connectivity        | Built-in WiFi, Bluetooth 5.0, USB                                                                            |
| Navigation          | Built-in GPS (GPS, BDS, GLONASS), Worldwide Map Type                                                         |
| Special Features    | Wireless CarPlay, Wired Android Auto, Steering Wheel Control, Split Screen, FM Radio, Rear View Camera Input |
| Audio Output Mode   | Stereo                                                                                                       |
| Mounting Type       | Dashboard Mount                                                                                              |
| Included Components | Dash Kit, Power Cable, RCA Cable, Reversing Camera Cable, USB Cables                                         |

## 9. WARRANTY INFORMATION

This MekedeTech product comes with a **1-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by improper installation, misuse, accidents, or unauthorized modifications.

For warranty claims or service, please contact MekedeTech customer support with your proof of purchase.

## 10. CUSTOMER SUPPORT

If you encounter any issues or have questions not covered in this manual, please contact MekedeTech customer support. Refer to the contact information provided with your purchase or visit the official MekedeTech website for assistance.

### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

**Question**

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

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question