

JOYING JOYING Android 10 Radio

JOYING Android 10 Radio 6.2 Inch Single-Din In-Dash GPS Navigation System User Manual

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your JOYING Android 10 Radio. Please read this manual thoroughly before using the device to ensure proper functionality and to maximize your user experience.

The JOYING Android 10 Radio features a 6.2-inch display, a powerful 1.8GHz Octa-core CPU, 4GB RAM, and 64GB ROM. It supports Android Auto and Apple CarPlay, Bluetooth 5.1 for hands-free calls and audio streaming, dual-band 2.4GHz and 5Ghz WiFi, and includes a built-in 4G module for internet access. Advanced audio features include optical fiber and coaxial digital output, and a 32-band equalizer with DSP sound effects.

SETUP

Package Contents

Verify that all items are present in the package:

- 6.2" Radio Unit x1
- Universal ISO Harness x1
- 4G Antenna x2
- USB Cable x2
- External Microphone x1
- GPS Antenna x1
- User Manual x1



Figure 1: Included accessories and main unit.

Installation Considerations

For installation, specific vehicle models may require an additional ISO harness, amplifier adapter, or CANbus decoder. These components are not included and must be purchased separately if needed for your vehicle.

Wiring Diagram

Refer to the following diagram for proper wiring connections. Ensure all connections are secure before powering on the device.



Figure 2: Rear panel connections and wiring harness details.

Detachable Screen and Adjustable Mount

The unit features a detachable screen and an adjustable fixed mount. This design allows for flexible positioning to avoid obstructing air-conditioning vents or control switches during installation.



Figure 3: Detachable screen and adjustable mount mechanism.

OPERATING INSTRUCTIONS

Basic Controls

The unit features physical buttons and a touchscreen interface for navigation and control. The main knob typically controls volume, while other buttons provide quick access to functions like Home and Navigation.

Android 10 System

The device operates on the Android 10.0 system, providing a responsive user interface and compatibility with a wide range of applications available from the App Store.

Size & Package Contents

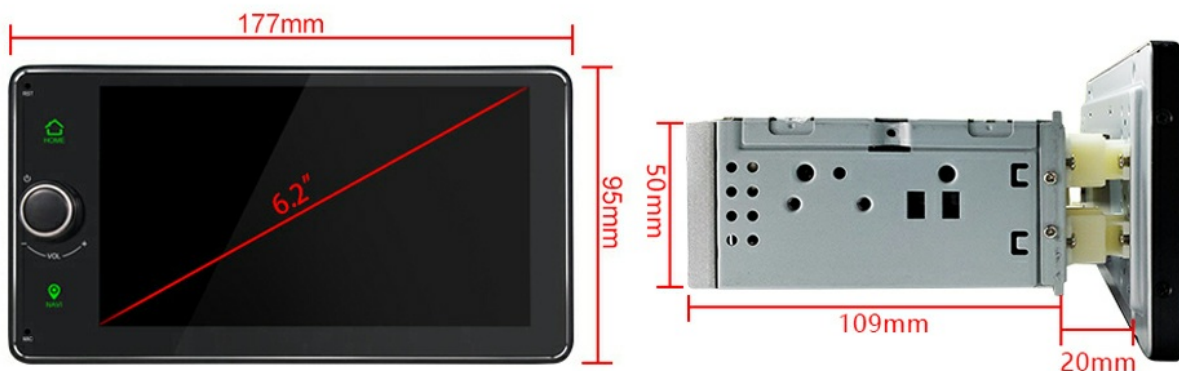


Figure 4: Android 10 operating system interface.

Car-Smartphone Connectivity (Android Auto & Apple CarPlay)

The unit includes built-in Carlink functionality, supporting both Android Auto and Apple CarPlay without requiring additional devices. This allows for seamless integration of your smartphone's navigation, communication, and media apps.

- **Android Auto:** Compatible with Android 7.0 or later. Wired connection is supported. For Android 11 or later phones with 5G WiFi, both wired and wireless connections are available.
- **Apple CarPlay:** Compatible with iOS 10.1 or later. Supports both wired and wireless connections.

6.2" SINGLE DIN ANDROID CAR STEREO

(with Physical Buttons)



- Powerful Android 10.0 System
- Built-in DSP with 32-Band EQ
- Optical Output & Coaxial Output
- Built-in Android Auto & Apple CarPlay
- 5GHz WiFi Provides High Loading Speed



Android 10.0



Octa Core



4GB RAM 64GB ROM



800 X 480



4G Module



Apple CarPlay



Android Auto



Split-screen Multitasking



Fast Boot

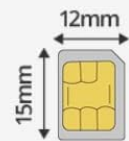


Radio

Figure 5: Android Auto interface on the display.

5GHz WiFi & 4G Module

- * Support 5GHz WiFi, provide higher speed and stable network signal, also help solve the interference from surrounding networks.
- * Built-in 4G module, inserting 4G SIM card to the radio for Internet access directly. (Support Internet access and not support telephone calls)



Micro-SIM(3FF)

* SIM Card is not included

Figure 6: Apple CarPlay interface on the display.

Bluetooth 5.1

The unit features Bluetooth 5.1 for enhanced connectivity, supporting audio streaming, automatic phone book transfer, and hands-free calling. It is compatible with phones and OBD dongles.

Bluetooth 5.1

Upgrade to Bluetooth 5.1, achieve better user experience when listening to music, and making phone calls via Bluetooth connection.



Figure 7: Bluetooth 5.1 connectivity screen.

5GHz WiFi & 4G Module

The radio supports dual-band WiFi (2.4GHz and 5GHz) for faster and more reliable internet access. A built-in 4G module allows for direct internet access by inserting a SIM card (SIM card not included). Note that the 4G module supports internet access but not phone calls or SMS.

Car-Smartphone Connectivity

(Built-in Android Auto and CarPlay module, no need any extra device or dongle)



Android Auto

Connected by wired or wireless, extends the Android platform into the car in a way that is purpose-built for driving. Make it easier to make hands-free calling, play music and use map.

Wired: Compatible with Android 7.0 and above.

Wireless: Only compatible with the mobile phones which support both 5G network and 5G WiFi.



Apple CarPlay

Connected by wired or wireless, Apple CarPlay gives iPhone users an incredibly intuitive way to make calls, use Maps, listen to music, verbally send and listen to messages with just a word or a touch.

Compatible with iOS 10.1 and above



Figure 8: 5GHz WiFi and 4G module features.

Built-in DSP

The integrated Digital Signal Processor (DSP) provides a 32-band equalizer for independent adjustment of front and rear speakers. It also offers omni-directional stereo surround sound, bass reinforcement, and bass filtering for a customizable audio experience.

Built-in DSP

- ▶ 32-band EQ, independent adjustment of front and rear speaker.
- ▶ Surround sound, control the delay from the four speakers to get better sound effects.
- ▶ Fully adjustable of subwoofer and bass-boost.



Figure 9: DSP audio settings interface.

Steering Wheel Control

The unit supports factory steering wheel controls, allowing you to switch songs, change radio channels, and adjust volume for a safer driving experience. Some vehicles may require a special CANbus harness for this function.

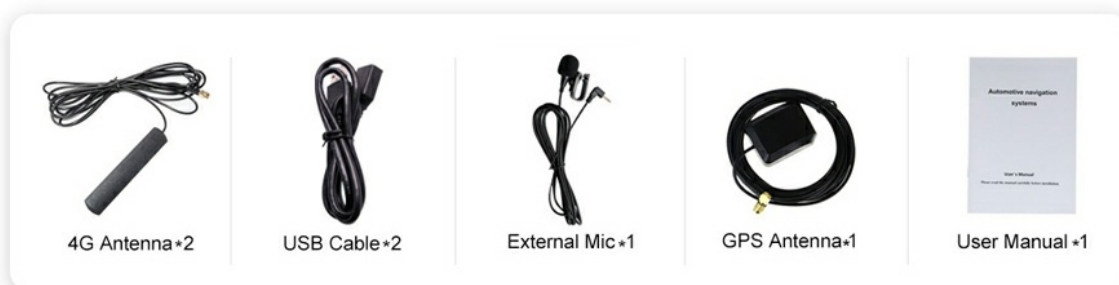


Figure 10: Steering wheel control interface.

USB/Micro SD Card

The unit includes three USB ports and one Micro SD card slot, supporting storage up to 64GB. It supports various media formats:

- **Video Formats:** AVI, MKV, MP4, WMV, RMVB, MPG, etc.
- **Audio Formats:** MP3, WMA, WAV, AC3, OGG, FLAC, Web audio, etc.
- **Picture Formats:** JPEG, BMP, PNG, TIFF, etc.

AM/FM Radio

The built-in AM/FM tuner radio allows you to access your favorite radio stations and stay updated with news. It supports various frequency bands for different regions and includes RDS (PT PA PTY RT) functionality.

MAINTENANCE

To ensure the longevity and optimal performance of your JOYING Android 10 Radio, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the screen and unit. Avoid abrasive cleaners or solvents that could damage the display or finish.
- **Temperature:** Operate the unit within its specified temperature range (-40°C to 80°C). Extreme temperatures can affect performance and lifespan.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.
- **Software Updates:** Check the manufacturer's website for available software updates to improve performance and add new features.

TROUBLESHOOTING

Common Issues

- **Unit does not power on:** Check power connections and the vehicle's fuse box. Ensure the universal ISO harness is correctly installed.
- **No audio output:** Verify speaker connections and audio settings. Check if the volume is muted or set too low. Ensure external amplifiers are correctly connected if used.
- **GPS signal loss:** Ensure the GPS antenna is properly installed and has a clear view of the sky.
- **Bluetooth connectivity issues:** Ensure Bluetooth is enabled on both the radio and your device. Try unpairing and re-pairing the device.
- **Touchscreen unresponsive (partial or full):** This can sometimes be resolved by checking the ribbon cable connection between the screen and the main unit. Power cycle the device. If the issue persists, contact customer support.
- **Android Auto/Apple CarPlay not connecting:** Ensure your phone's operating system is compatible (Android 7.0+ or iOS 10.1+). Check USB cable connection for wired CarPlay/Android Auto. For wireless connections, verify 5G WiFi is enabled and configured correctly.

Specifications

Feature	Specification
Operating System	Android 10.0
CPU Processor	UIS7862 12nm Dual ARM Cortex-A75 Six ARM A55 (Octa-core 1.8GHz)
RAM + ROM	4GB RAM + 64GB ROM
Screen Size	6.2 Inches
Resolution	800*480
Bluetooth	Bluetooth 5.1 (v2.1 + EDR, v5.1 Low Energy)
Microphone	Built-in Microphone + External Microphone
Working Voltage	10V-14V
Working Temperature	-40°C to 80°C
Radio Chip	TDA7786 (with RDS support)
Amplifier IC	TDA7851 (4x50W Max Audio Output)
USB/SD Slot Max Compatibility	Up to 64GB
HDD Support	External hard drive up to 500GB
Connectivity Technology	Wi-Fi (2.4GHz & 5GHz), 4G Module
GPS	Built-in Google Maps (North America map type)
Audio Output Mode	AUX, Speaker, Stereo, Surround Sound

Special Features	Android Auto, Apple CarPlay, DSP, Optical Fiber & Coaxial Digital Output, Split Screen Multitasking, Fast Boot
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WARRANTY

JOYING products are covered by a limited warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary. Please retain your proof of purchase for warranty claims. For detailed warranty information, refer to the documentation included with your product or visit the official JOYING website.

SUPPORT

For technical assistance, troubleshooting, or customer service inquiries, please refer to the contact information provided in your product packaging or visit the official JOYING support website. When contacting support, please have your product model number and purchase details ready.