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› JOYING Single Din Car Stereo 12.3 inch Car Radio Android 12 Head Unit User Manual

JOYING JY-HZS03N8

JOYING Single Din Car Stereo User Manual

Model: JY-HZS03N8

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your JOYING Single Din Car Stereo. This advanced head unit features a 12.3-inch Android 12 touchscreen, 8GB RAM + 128GB ROM, Wireless CarPlay, Android Auto, navigation, AM/FM radio, Mirror Link, and Bluetooth connectivity. Please read this manual thoroughly before using the product to ensure proper functionality and safety.

2. SAFETY INFORMATION

- Always ensure the vehicle is parked safely before operating the stereo's advanced features.
- Do not attempt to disassemble or modify the unit. This may cause damage and void the warranty.
- Professional installation is highly recommended to prevent damage to the unit or vehicle's electrical system.
- Keep the unit away from water, moisture, and extreme temperatures.
- Use only approved accessories and cables.

3. PACKAGE CONTENTS

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



Projection Screen Display:

Support to play movies for passengers in the headrest, and navigate for drivers on the main screen. Everyone can enjoy it.



On-screen Display:

Displays the same 1080P clear picture, zero delays without stuttering.



Due to the space design inside the chassis, the HDMI cable with a straight head is not supported. (HDMI cable is not included)

Figure 3.1: Included Accessories

- JOYING 12.3 inch Single Din Car Stereo (JY-HZS03N8)
- Power Harness
- 4G Antenna x 2
- USB Cable x 2
- External Microphone x 1
- GPS Antenna x 1
- User Manual x 1
- Installation Kit

4. SETUP AND INSTALLATION

4.1 Installation Notes

Installation of the JOYING car stereo requires technical knowledge and may involve modifying your vehicle's dashboard. It is strongly recommended to have the unit installed by a qualified professional. You may need additional components such as an installation frame kit, special ISO harness, amplifier adapter, or CANbus decoder depending on your car's specific requirements. This unit does not support factory car GPS antenna, backup rear camera, Bluetooth, USB, or microphone if they are integrated into the factory system. It only supports JOYING accessories for optimal compatibility.

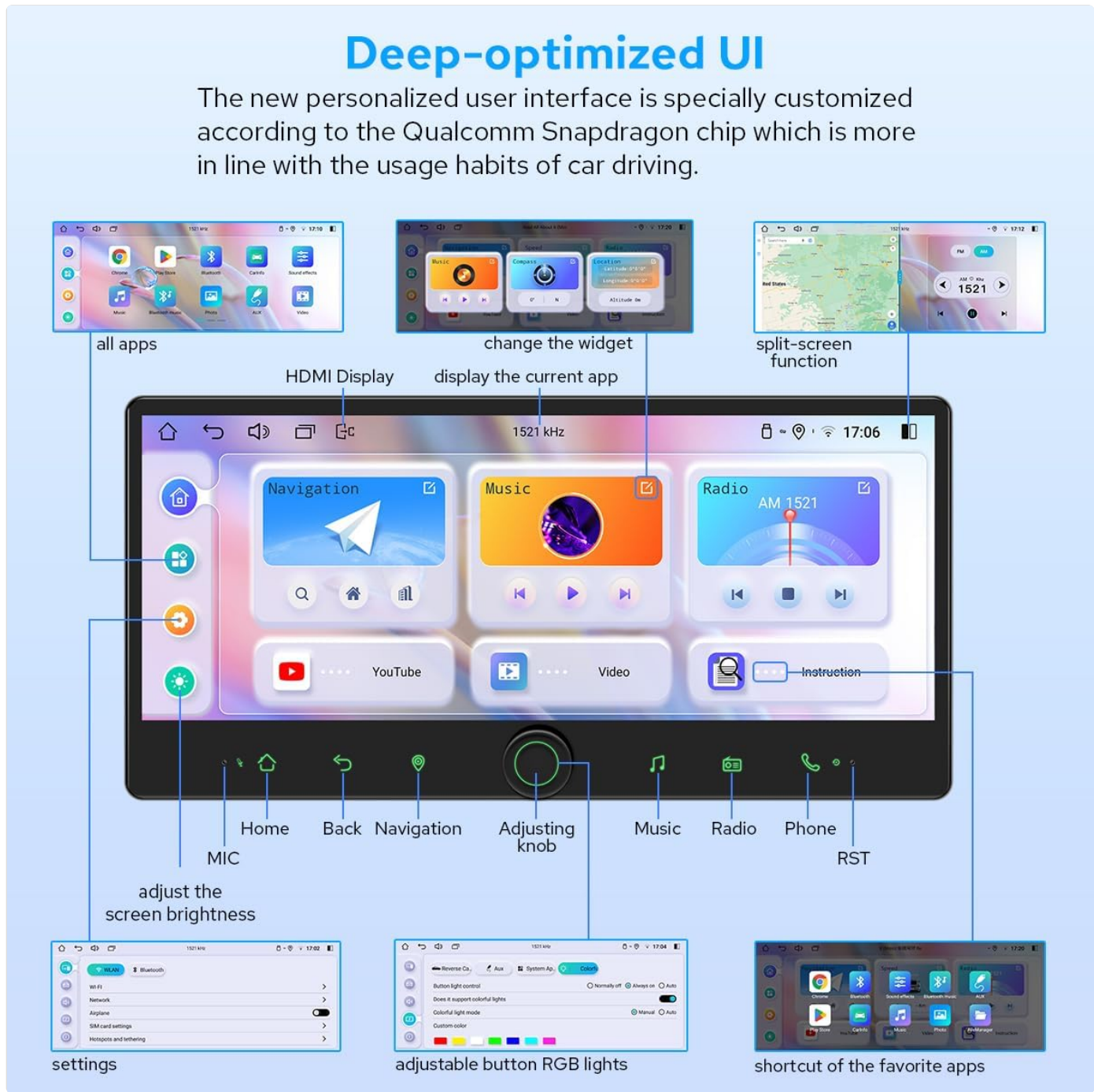


Figure 4.1: Main User Interface

4.2 Removable Screen Adjustment

The screen of the head unit is designed to be movable up and down to accommodate various dashboard configurations and viewing preferences. Each adjustment step is 0.7cm, allowing for a total movement of up to 2.5cm upwards and 2.5cm downwards from the middle position.



Figure 4.2: Removable Screen Adjustment

4.3 Initial Power On and Fast Boot

Upon inserting the car key and turning on the ignition, the unit will initiate a fast boot sequence, entering the user interface within 2 seconds. The very first boot-up may take approximately 30-40 seconds.

4.4 Connectivity

4.4.1 Built-in 4G Module

The head unit includes a built-in 4G module, allowing direct internet access by inserting a SIM card. Please note that this feature supports internet access only and cannot be used for phone calls or sending SMS messages. Supported FDD-LTE types include B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B38/B66/B71, and TDD-LTE type B41.

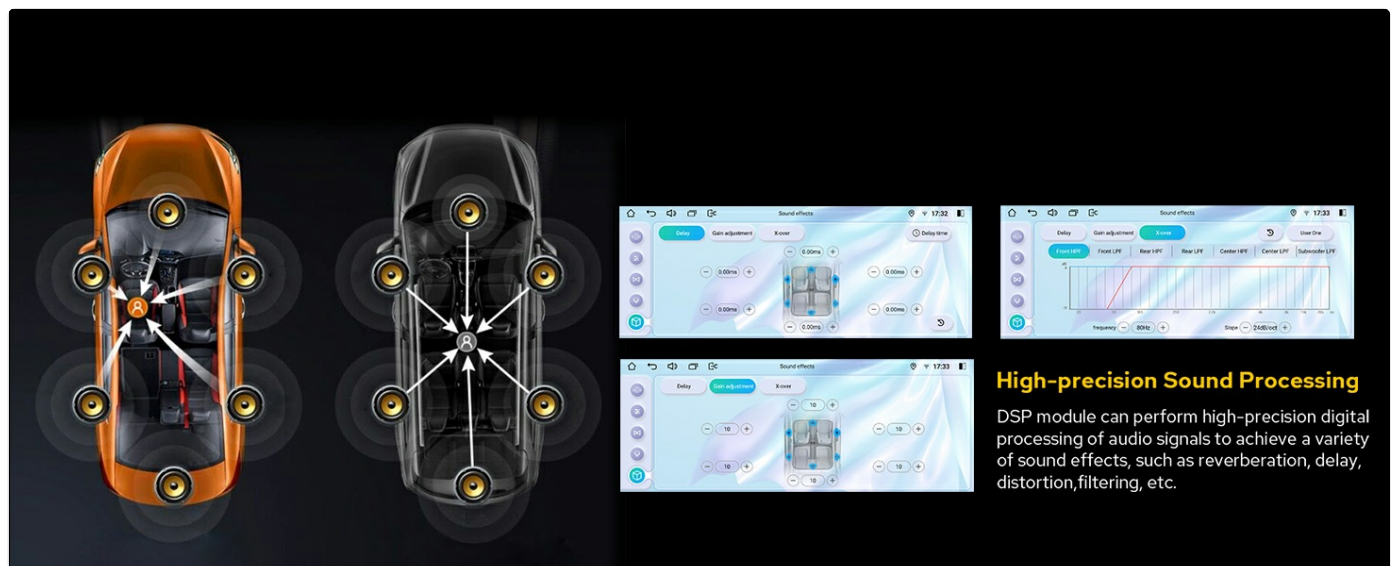


Figure 4.3: 4G Module and SIM Card Slot

4.4.2 Wireless CarPlay & Android Auto

Connect your mobile phone to the car radio via USB cable or Bluetooth to utilize Wireless CarPlay and Android Auto. This allows you to access your phone's apps on the larger screen for navigation, phone calls, and music playback. The unit has built-in Android Auto and CarPlay modules, eliminating the need for external devices or dongles.

Car-smartphone Connectivity

Wireless CarPlay & Android Auto

Connect your mobile phone with the car radio via USB cable or Bluetooth to share the phone's apps on a bigger screen, it is an easier way to get access to navigation, make phone calls, and listen to music.



Figure 4.4: Wireless CarPlay & Android Auto

5. OPERATING INSTRUCTIONS

5.1 User Interface Overview

The JOYING car stereo features a deep-optimized user interface (UI) customized for car driving habits, powered by a Qualcomm Snapdragon chip. The main screen provides quick access to Navigation, Music, Radio, YouTube, and Video applications. Key controls are available at the bottom of the screen, including Home, Back, Navigation, Adjusting Knob, Music, Radio, Phone, and RST (Reset).

Deep-optimized UI

The new personalized user interface is specially customized according to the Qualcomm Snapdragon chip which is more in line with the usage habits of car driving.



Figure 5.1: Detailed UI Functions

5.2 Navigation

The unit features precise GPS engines for accurate positioning, including a dedicated GPS antenna for better satellite signal reception and faster real-time navigation. You can download Google offline maps for use in areas without internet connectivity. Mobile phone map data can also be synchronized via CarPlay/Android Auto.

5.3 Media Playback

5.3.1 Audio Playback

The unit supports various audio formats and features a built-in Digital Signal Processor (DSP) with a 48-band EQ and 20 kinds of sound effects. The subwoofer output can be amplified and adjusted independently. Separate frequency adjustments are available for ultra-bass, bass, mid-bass, mid-sound, mid-treble, treble, and super-treble, allowing for a customized sound experience.

Split-screen Multitasking

Switch and run 2 apps on one screen side by side,
(only google related apps can support split screen function)

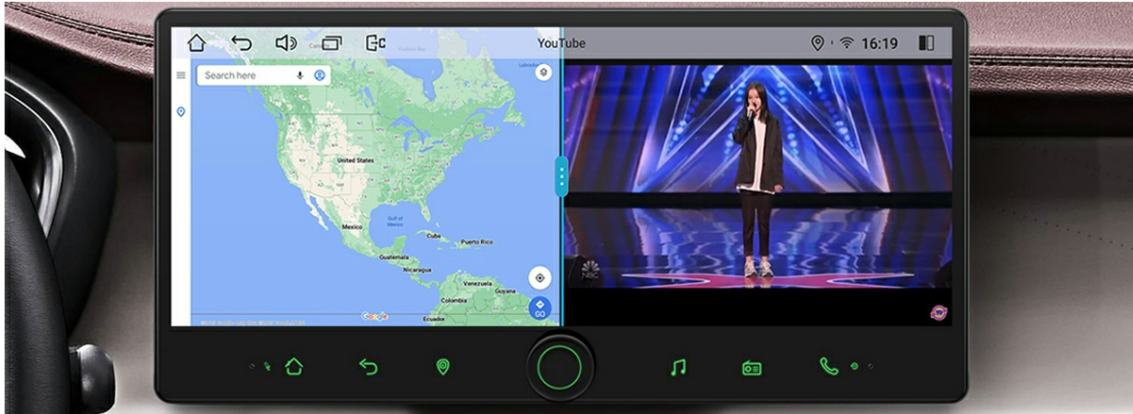


Figure 5.2: DSP and EQ Settings

5.3.2 Video Playback and HDMI Output

The unit supports HD 1920x720 resolution with a 60Hz refresh rate. It features an HDMI output, which is a full digital image and sound-sending interface. This allows for uncompressed audio and video signals to be output synchronously to external displays, such as headrest monitors, without manual adjustment. Please note that due to the chassis design, a straight-head HDMI cable is not supported; only angled HDMI cables can be used (HDMI cable not included).

Parameter	Screen Parameter	Network & Connection
CPU QCM6125 Octa Core 64bit ARM 4xA73@2.0GHz 4xA53@1.8GHz	Screen Resolution 1920×720P	Positioning System GPS / GLONASS / Beidou
Manufacturing Technology 11 nanometers	Screen Density 355 ppi	WiFi-5 Up to 600 Mbps DL 802.11ac Wi-Fi X12 LTE modem
GPU Adreno™ 610@950 MHz	Refresh Rate 60 Hz	Network 4G/3G/Bluetooth OBD(5.0)
Memory Type LPDDR4X	DPI 160 dpi(mdpi)	
RAM & ROM 8GB+128GB		

Figure 5.3: HDMI Output and Display Options

5.4 Day & Night Mode

The display automatically adjusts between Day and Night modes for optimal visibility. Day mode is bright enough for clear viewing even in direct sunlight, while Night mode reduces brightness to prevent dazzling and enhance eye comfort during nighttime driving.

Day & Night Mode

The daytime mode is bright enough to see clearly even in the sun, the night mode will not be dazzling, making your eyes more comfortable.



Daytime Mode



Night Mode

New Gesture Control

Control the screen via gesture learning by 2 fingers: "slide up", "slide down", "slide left", and "slide right". Very friendly to those who are driving.



Floating Shortcut Key

Open the floating shortcut key in the setting, it will pop up on the left side, easy to control the screen while driving.



Figure 5.4: Day & Night Mode Display

5.5 Gesture Control

The unit supports gesture control for convenient screen operation. You can control the screen by learning gestures such as "slide up," "slide down," "slide left," and "slide right" using two fingers. This feature is designed to be user-friendly for drivers.

5.6 Split-screen Multitasking

The split-screen function allows you to switch and run two applications side-by-side on the screen simultaneously. Currently, only Google-related applications support this split-screen functionality.

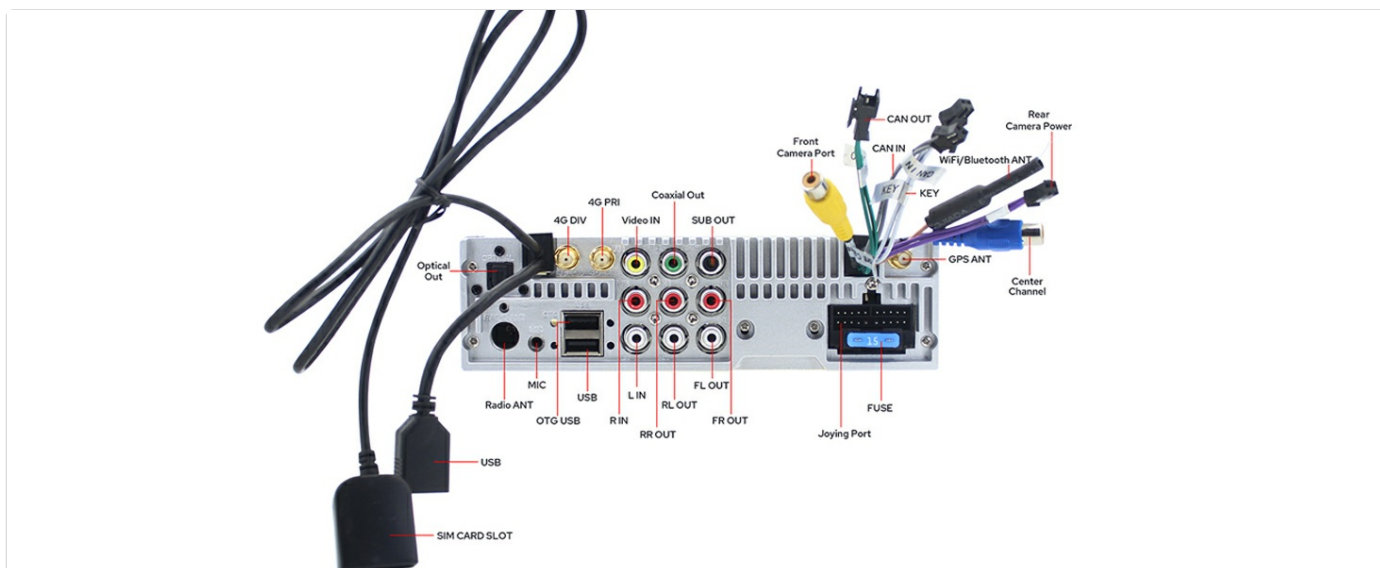


Figure 5.5: Split-screen Multitasking

5.7 AR Camera (Optional)

During driving, you can freely switch between the front and rear cameras to observe the surrounding environment for safe driving. For optimal compatibility and clearer, more stable images when recording, it is recommended to purchase JOYING's dedicated AR camera.



Figure 5.6: AR Camera Interface

5.8 Product Demonstration Video

Your browser does not support the video tag.

Video 5.1: Joying Wide Screen 12.3" Stereo After Installation Effect. This video demonstrates the appearance and functionality of the JOYING 12.3-inch car stereo after installation in a vehicle, showcasing its wide screen and user interface in action.

6. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the screen and exterior. For stubborn smudges, a slightly damp cloth with a mild, non-abrasive cleaner can be used, but avoid spraying liquids directly onto the unit.
- **Temperature:** Avoid exposing the unit to extreme temperatures, both hot and cold, for extended periods.
- **Connections:** Periodically check all cable connections to ensure they are secure and free from corrosion.

- **Software Updates:** Keep the system software updated to benefit from the latest features and performance improvements. Refer to the JOYING website or support channels for update instructions.

7. TROUBLESHOOTING

If you encounter issues with your JOYING car stereo, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on.	Loose power connection, blown fuse, vehicle battery issue.	Check power cables, inspect vehicle's fuse box, ensure battery is charged. Consult a professional if issues persist.
No sound.	Volume too low, mute activated, speaker wiring issue, incorrect audio output settings.	Increase volume, check mute status, verify speaker connections, adjust audio settings (e.g., DSP, EQ).
GPS signal weak or inaccurate.	GPS antenna obstructed or improperly installed, unit in an area with poor satellite reception.	Ensure GPS antenna has a clear view of the sky and is correctly connected. Move vehicle to an open area.
Touchscreen unresponsive.	System freeze, temporary software glitch.	Perform a soft reset (RST button if available, or power cycle the unit by turning off the vehicle ignition and restarting).
CarPlay/Android Auto not connecting.	Bluetooth/USB connection issue, phone settings, app compatibility.	Ensure Bluetooth is on and paired, try a different USB cable, check phone's CarPlay/Android Auto settings, restart both devices.

If the problem persists after attempting these solutions, please contact JOYING customer support or a qualified service technician.

8. SPECIFICATIONS

Feature	Detail
Model Number	JY-HZS03N8
Screen Size	12.3 inches
Operating System	Android 12
RAM + ROM	8GB + 128GB
Screen Resolution	1920 x 720
Processor	Qualcomm Snapdragon 6125 (QCM6125 Octa Core 64bit ARM 4xA73@2.0GHz, 4xA53@1.8GHz)
GPU	Adreno™ 610@950 MHz
Connectivity	Bluetooth, Ethernet, HDMI, USB, Wi-Fi, Built-in 4G Module
Wireless Features	Wireless CarPlay, Android Auto

Feature	Detail
Audio Output	Optical Fiber and Coaxial Digital Output, Stereo, 2.0/2.1 Surround Sound
DSP	Built-in DSP, 48-band EQ, 20 sound effects
GPS	GPS / GLONASS / Beidou (with GPS antenna)
Item Weight	5.9 pounds
Package Dimensions	16 x 11 x 6 inches

9. WARRANTY AND SUPPORT

JOYING products are designed and manufactured to the highest quality standards. For information regarding warranty coverage, technical support, and service, please refer to the official JOYING website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

Official JOYING Store: [Visit the JOYING Store on Amazon](#)

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

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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

