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› JOYING JY-UTD12N12 11.5 Inch Double Din Car Stereo User Manual

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Model: JY-UTD12N12

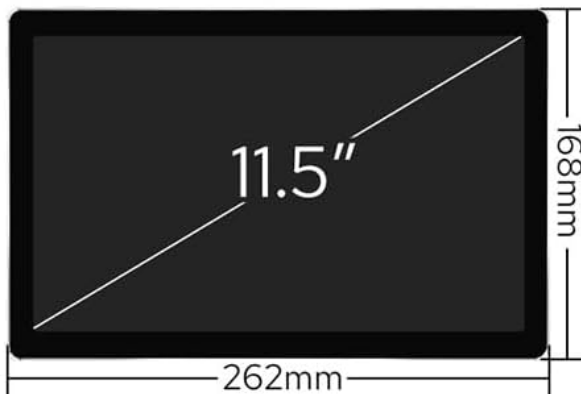
1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your JOYING JY-UTD12N12 11.5 Inch Double Din Car Stereo. This advanced head unit features a 2K QLED touchscreen, Android 13 operating system, Qualcomm 8-core processor, 12GB RAM, and 256GB storage. It supports Wireless CarPlay, Android Auto, GPS navigation, 5G WiFi, Bluetooth, and a built-in 4G module.

2. PACKAGE CONTENTS

Before installation, verify that all components are present in the package:

Package Contents



Double Din Cage



Left & Right Bracket



Plastic Trim Out



Reinforced Shims



Installation Manual



Universal Cable



BT Antenna *1



WiFi Antenna *2



4G Antenna *2



USB Cable *2



User Manual



GPS Antenna *1



External Mic*1



AR Cable*1



Screen Ribbon Cable*1

Figure 2.1: All components included in the package. This includes the 11.5-inch radio unit, double din cage, left and right brackets, plastic trim out, reinforced shims, installation manual, universal cable, BT antenna, two WiFi antennas, two 4G antennas, GPS antenna, two USB cables, external microphone, AR cable, screen ribbon cable, and user manual.

- 11.5" Radio Unit
- Double Din Cage
- Left & Right Brackets
- Plastic Trim Out
- Reinforced Shims
- Installation Manual (separate detailed guide)
- Universal Cable
- BT Antenna

- WiFi Antenna (x2)
- 4G Antenna (x2)
- GPS Antenna
- USB Cable (x2)
- External Microphone
- AR Cable
- Screen Ribbon Cable
- User Manual (this document)

3. SETUP AND INSTALLATION

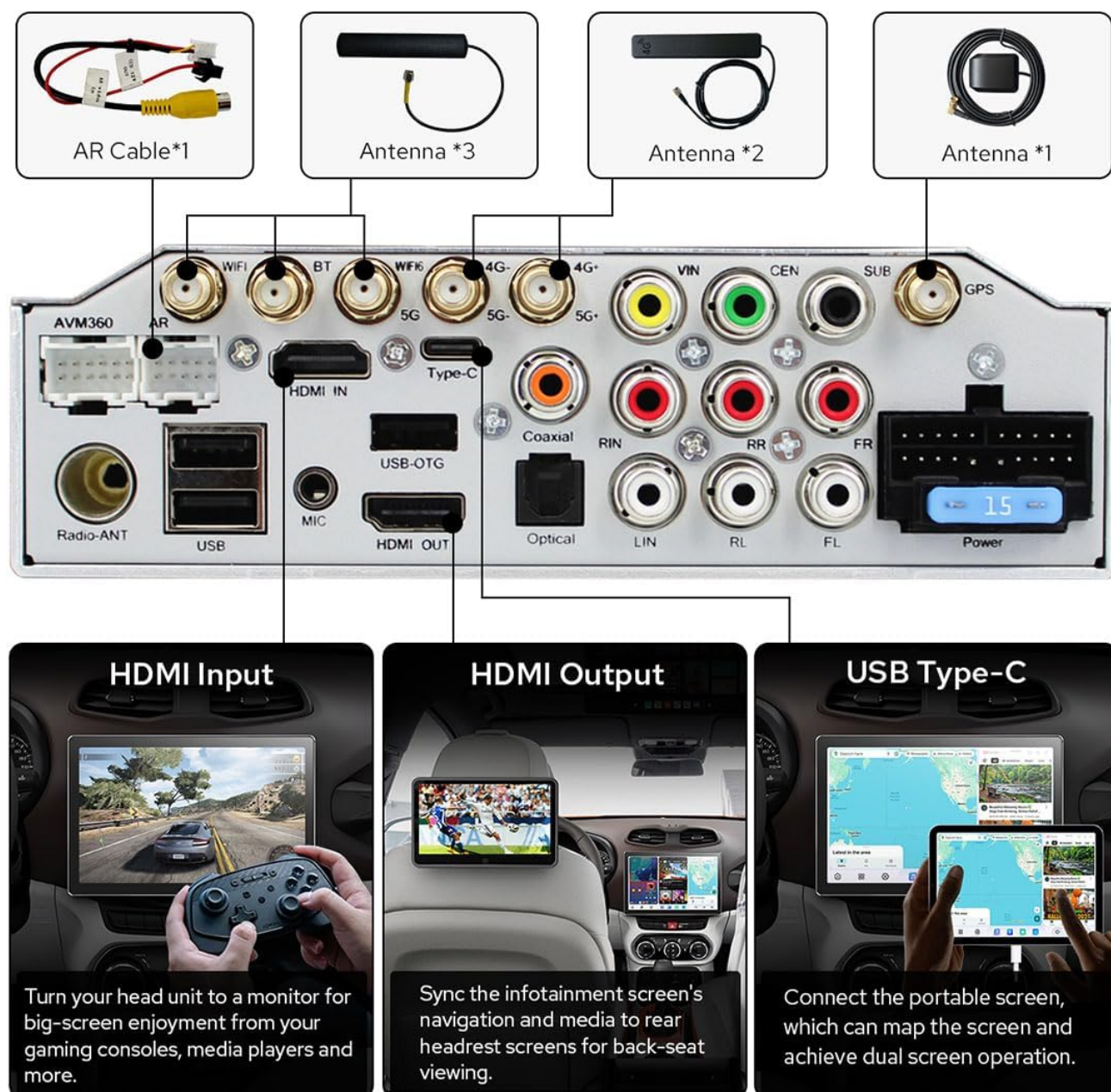
3.1. Pre-Installation Considerations

- Ensure the vehicle's battery is disconnected before starting installation.
- Refer to the dedicated **Installation Manual** included in your package for detailed wiring diagrams and vehicle-specific mounting instructions.
- Identify the appropriate mounting location for the GPS, WiFi, and 4G antennas to ensure optimal signal reception.

3.2. Connecting Rear Interfaces

The head unit features various rear interfaces for power, audio, video, and data connections. Connect all necessary cables as per your vehicle's requirements and the provided installation manual.

Head Unit Rear Interfaces



Note: HDMI cable and USB type-c cable are not included.

Figure 3.1: Rear interfaces of the head unit. Key connections include power, speaker outputs (FL, FR, RL, RR), subwoofer output (SUB), video inputs/outputs (VIN, RIN, HDMI IN/OUT), USB ports, microphone input, GPS antenna, WiFi antennas, 4G antennas, and AR cable input.

3.3. Antenna Connections

- **GPS Antenna:** Connect the GPS antenna to the dedicated GPS port. Mount it in a location with a clear view of the sky for accurate positioning.
- **WiFi Antennas:** Connect the two WiFi antennas to their respective ports. These enhance wireless connectivity.
- **4G Antennas:** Connect the two 4G antennas for optimal cellular data reception.
- **Bluetooth Antenna:** Connect the BT antenna for stable Bluetooth connections.

3.4. SIM Card Installation (for 4G Module)

The unit includes a built-in 4G module. Insert a compatible SIM card into the designated slot for internet access.

Note that this module supports data services only and cannot be used for phone calls or SMS messages directly from the head unit.

Supported 4G LTE bands include: LTE-TDD (B34/B38/B39/B40/B41), LTE-FDD (B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/66/71), WCDMA (B1/B2/B4/B5/B6/B8), and GSM (850/900/1800/1900 MHz).

4. OPERATING INSTRUCTIONS

4.1. Power On/Off and Basic Interface

After successful installation, turn on your vehicle's ignition to power on the head unit. The 11.5-inch QLED touchscreen provides a responsive and intuitive interface. Tap icons to launch applications. Long-press icons to access additional options or switch between applications.

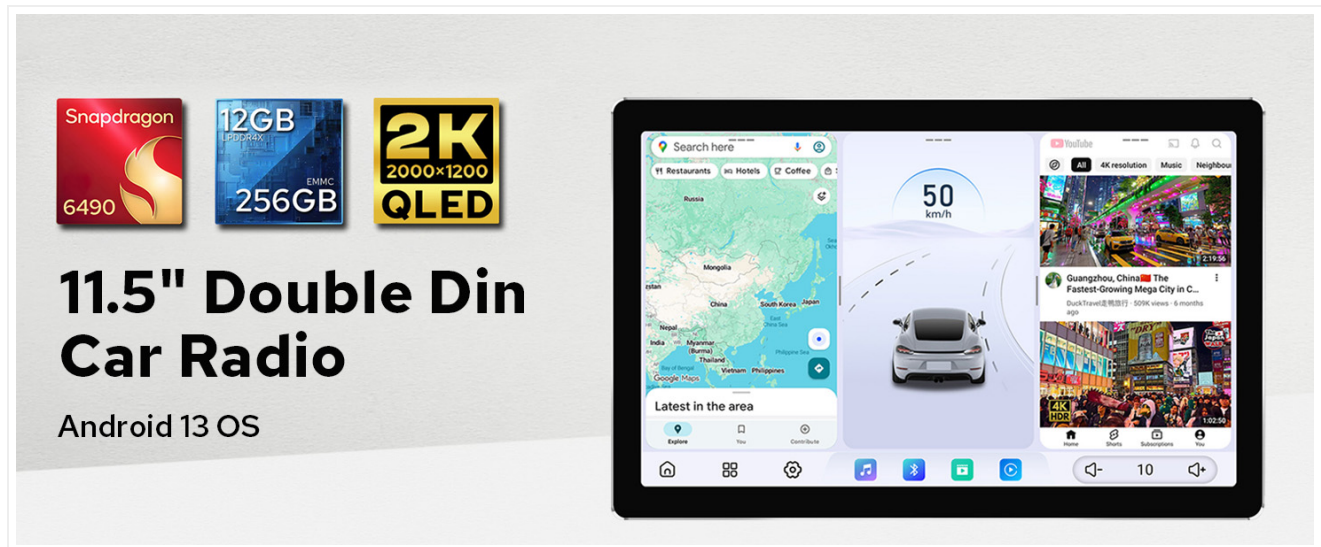


Figure 4.1: Navigation, entertainment, and third-party applications are accessible from a single interface. Tap the '---' icon to switch between app interfaces.

4.2. Wireless CarPlay & Android Auto

The head unit supports both wired and wireless CarPlay and Android Auto. Connect your compatible smartphone to access contacts, maps, music, messages, and other applications directly on the stereo's display. Voice control features like Siri and OK Google are supported.

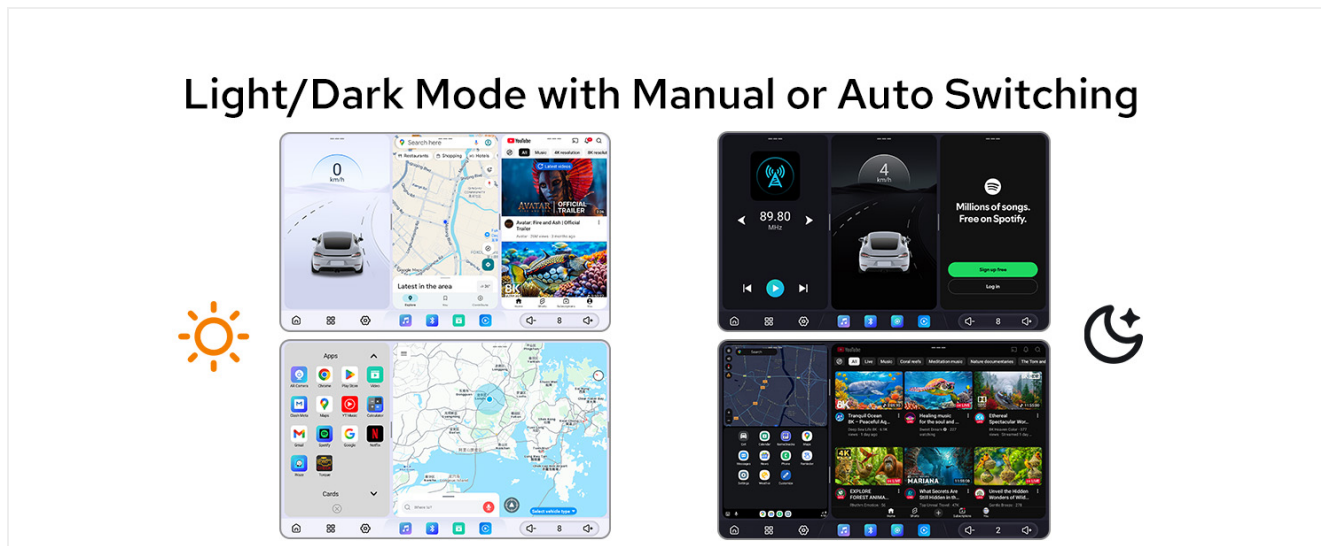


Figure 4.2: The head unit supports both Wireless CarPlay and Android Auto, allowing seamless integration with your smartphone for

4.3. GPS Navigation

Utilize the precise GPS engine and included GPS antenna for accurate real-time navigation. The system supports offline maps; you can download map data for specific areas to the head unit for navigation without an internet connection. Mobile phone map data can also be synchronized via CarPlay or Android Auto.

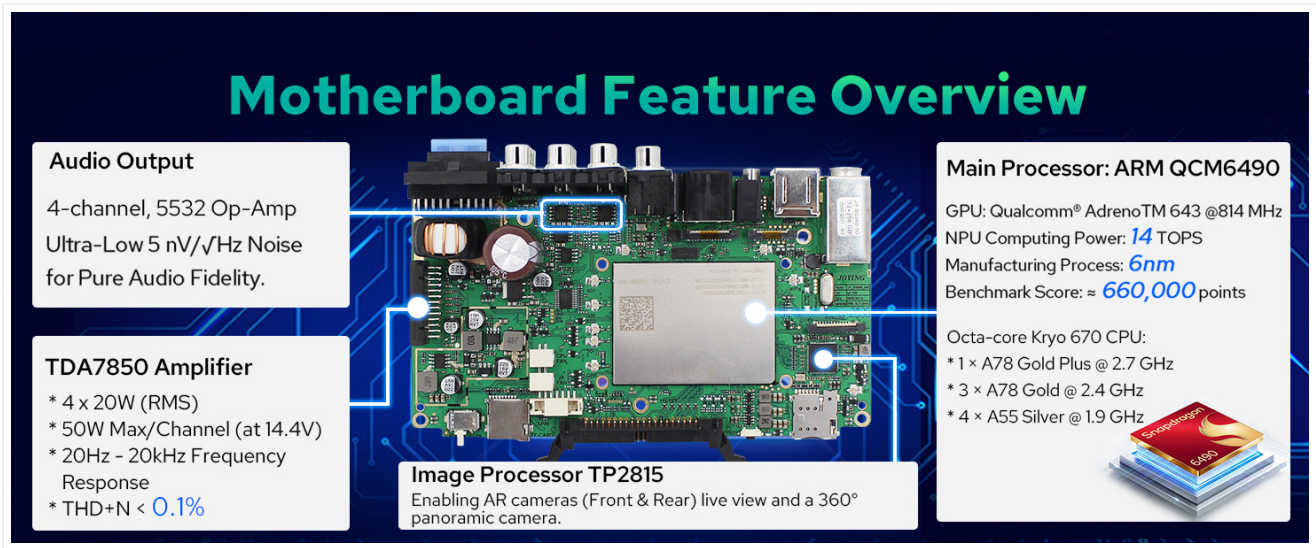


Figure 4.3: The system features Multiband GNSS, supporting GPS, GLONASS, NavIC, BeiDou, and Galileo for enhanced positioning accuracy.

4.4. 5G WiFi & Bluetooth Connectivity

- **WiFi:** The unit supports dual-band WiFi (2.4 GHz, 5 GHz, and 6 GHz) for high-speed and stable network connections.
- **Bluetooth:** Dual-mode Bluetooth allows simultaneous connections to two smartphones or a smartphone and an OBD diagnostic dongle. It supports Qualcomm aptX HD audio for high-fidelity sound.

4.5. AM/FM Radio

The head unit includes an AM/FM radio tuner with 18 preset FM stations. Tune in to local broadcasts for news, music, and talk shows.

4.6. Audio Settings (DSP & EQ)

The integrated Digital Sound Processor (DSP) and 48-band equalizer allow for precise audio customization. Choose from 20 selectable sound effect styles and adjust frequency ranges (20Hz-40kHz) to match your listening preferences.



Figure 4.4: Customize your audio experience with 20 sound effect styles and a 48-band equalizer for precise sound tuning.

4.7. Light/Dark Mode

The display supports both light and dark modes, with options for manual or automatic switching based on ambient light conditions or time of day.



Figure 4.5: The head unit supports Light/Dark Mode with manual or automatic switching for optimal visibility in various lighting conditions.

4.8. HDMI and USB Type-C Functionality

- **HDMI Input:** Connect external devices like gaming consoles or media players to use the head unit as a large display.
- **HDMI Output:** Sync navigation and media to rear headrest screens for passenger entertainment.
- **USB Type-C:** Connect portable screens for dual-screen operation.

Note: HDMI cable and USB Type-C cable are not included.

5. MAINTENANCE

5.1. Cleaning the Screen

Use a soft, lint-free cloth to gently wipe the touchscreen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaning solution. Avoid harsh chemicals or abrasive materials.

5.2. Software Updates

Periodically check the JOYING official website or the unit's settings for available software updates. Keeping the software updated ensures optimal performance, security, and access to new features.

5.3. General Care

- Avoid exposing the unit to extreme temperatures or direct sunlight for prolonged periods.
- Ensure proper ventilation around the unit to prevent overheating. The unit features advanced high-efficiency cooling.



Figure 5.1: The head unit incorporates advanced engineering for high-efficiency cooling to maintain optimal performance.

6. TROUBLESHOOTING

If you encounter issues with your JOYING JY-UTD12N12, refer to the following common solutions:

- **No Power:** Check all power connections and fuses. Ensure the vehicle's ignition is on.
- **No Sound:** Verify speaker connections. Check volume levels and audio settings (EQ, DSP).
- **GPS Signal Issues:** Ensure the GPS antenna is properly connected and mounted in a location with a clear view of the sky.
- **WiFi/Bluetooth Connectivity Problems:** Check antenna connections. Ensure devices are within range and properly paired. Restart the head unit and the connected device.
- **CarPlay/Android Auto Not Connecting:** Ensure your phone is compatible and the connection (wired/wireless) is established correctly. Try restarting both the phone and the head unit.
- **Slow Performance:** Close unnecessary background applications. Consider a factory reset if performance issues persist (note: this will erase all user data).

For more complex issues, consult the detailed Installation Manual or contact JOYING customer support.

7. SPECIFICATIONS

Feature	Specification
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Brand	JOYING
Model Number	JY-UTD12N12
Screen Size	11.5 Inches
Display Type	2K QLED Capacitive Touchscreen
Operating System	Android 13
Processor	Qualcomm QCM6490 8-Core (6nm process)
RAM	12 GB
Memory Storage Capacity	256 GB
Connectivity Technology	Bluetooth, Ethernet, USB, Wi-Fi, 4G Module
WiFi	5G WiFi (2.4, 5, 6 GHz), Wi-Fi 6E
Bluetooth	Dual Bluetooth 5.2 (Qualcomm aptX HD)
Supported Navigation Systems	BeiDou, GLONASS, GPS, Galileo
Audio Output Mode	Stereo (4-channel, 5532 Op-Amp, TDA7850 Amplifier)
Audio DSP	AKM 7739 (24-bit ADC & 32-bit DAC)
Audio DAC	AKM 4432 (192kHz PCM Input, 32-bit processing)
Radio Tuner	NXP TEF6686 (Automotive-Grade, FM/AM/RDS)
Compatible Devices	Camera, Smartphone
Additional Features	Wireless CarPlay, Android Auto, DSP, SWC, HDMI In/Out, USB Type-C

8. WARRANTY INFORMATION

The JOYING JY-UTD12N12 Double Din Car Stereo comes with a **2-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

For detailed warranty terms and conditions, please refer to the official JOYING website or contact customer support.

9. CUSTOMER SUPPORT

If you require further assistance, have questions, or encounter issues not covered in this manual, please contact JOYING customer support through their official website or the contact information provided with your purchase.

You may also find additional resources, FAQs, and software updates on the JOYING support page.

10. OPTIONAL ACCESSORIES

Enhance your driving experience with optional accessories (sold separately):

Figure 10.1: Optional accessories include an AR Front Camera for recording the road, an OBD2 dongle for real-time vehicle data, and an AR Rear Camera for automatic display switching when reversing.

- **AR Front Camera:** Records the road ahead while driving.
- **OBD2 Dongle:** Connects via Bluetooth to retrieve real-time data and trouble codes from your vehicle's computer.
- **AR Rear Camera:** Automatically switches the display to the rear view when reversing.