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> JOYING JY-UTS17N12 9.5 Inch Android Car Stereo User Manual

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Model: JY-UTS17N12

1. INTRODUCTION AND OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of your JOYING JY-UTS17N12 9.5 Inch Android Car Stereo. This advanced head unit features a 2K QLED touchscreen, Qualcomm QCM6490 processor, 12GB RAM, 256GB storage, and supports wireless CarPlay and Android Auto. It integrates GPS navigation, 5G WiFi, Bluetooth, and a built-in 4G module for comprehensive in-car entertainment and connectivity.

Please read this manual thoroughly before installation and use to ensure proper functionality and to maximize your experience with the device.



Image: The JOYING JY-UTS17N12 9.5 Inch Android Car Stereo seamlessly integrated into a vehicle's dashboard.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 9.5" Android Car Stereo Unit (x1)
- Single Din Cage (x1)

- Mounting Sleeve (x1)
- Plastic Trim Out (x1)
- Left & Right Bracket (x1 set)
- Extraction Keys (x1 set)
- Universal Cable (x1)
- Bluetooth Antenna (x1)
- WiFi Antenna (x2)
- 4G Antenna (x2)
- GPS Antenna (x1)
- USB Cable (x2)
- External Microphone (x1)
- AR Cable (x1)
- Screen Ribbon Cable (x1)
- User Manual (x1)



Image: Visual representation of all components included in the JOYING JY-UTS17N12 package.

3. SETUP AND INSTALLATION

3.1 Safety Precautions

- Disconnect the vehicle's battery before starting installation to prevent electrical shorts.
- Ensure proper insulation for all wiring connections.
- Consult a professional installer if you are unsure about any steps.

3.2 Physical Installation

1. Remove the existing head unit from your vehicle's dashboard.
2. Install the Single DIN cage and mounting sleeve into the dashboard opening.
3. Attach the left and right brackets to the JOYING head unit.
4. Carefully slide the head unit into the mounting sleeve until it locks into place.
5. Install the plastic trim out around the unit for a finished look.

3.3 Wiring Connections

Refer to the diagram below for proper connection of all cables and antennas.

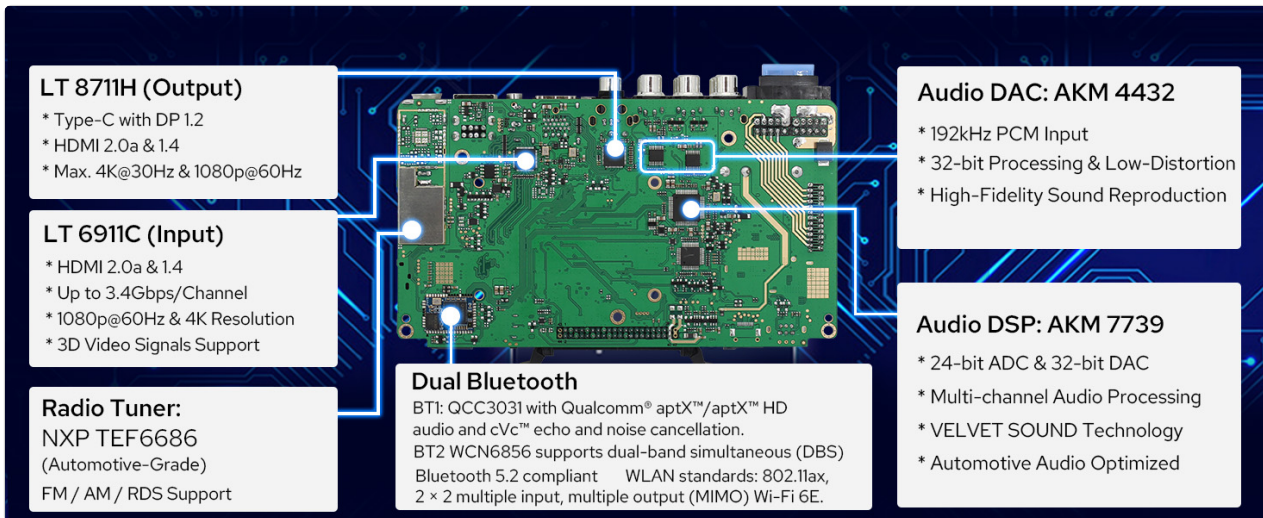


Image: Rear interface connections of the head unit, detailing ports for various cables and antennas.

- **Universal Cable:** Connect the main power and speaker wires to your vehicle's harness.
- **BT Antenna:** Connect the Bluetooth antenna for optimal signal reception.
- **WiFi Antenna (x2):** Connect both WiFi antennas for stable 2.4GHz, 5GHz, and 6GHz network connectivity.
- **4G Antenna (x2):** Connect both 4G antennas for cellular data reception.
- **GPS Antenna:** Connect the GPS antenna and mount it in a location with a clear view of the sky for accurate navigation.
- **USB Cables:** Connect the provided USB cables for external device connectivity and data transfer.
- **External Microphone:** Connect the external microphone for improved voice command and call quality.
- **AR Cable & Screen Ribbon Cable:** Connect these for display functionality.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off and Basic Navigation

Press the power button to turn the unit on or off. The QLED touchscreen allows for intuitive navigation through menus and applications. Swipe gestures and taps are used to interact with the interface.

4.2 CarPlay & Android Auto

The unit supports both wired and wireless CarPlay and Android Auto. Connect your compatible smartphone via USB for wired connection or pair it via Bluetooth and WiFi for wireless functionality. Once connected, you can access phone contacts, maps, music, messages, and use voice control (Siri or Google Assistant).

Light/Dark Mode with Manual or Auto Switching

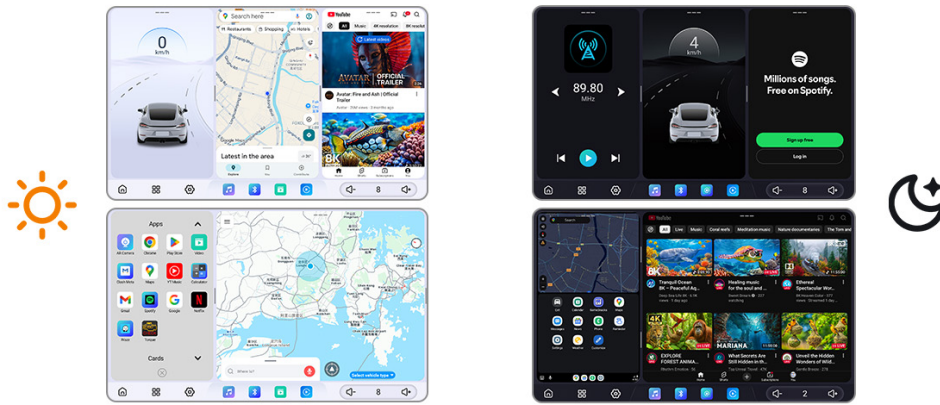


Image: Dual-mode Bluetooth supports simultaneous connections, enabling both CarPlay and Android Auto.

4.3 GPS Navigation

The unit features precise GPS navigation with support for multiple satellite systems (GPS, GLONASS, BeiDou, Galileo). The included GPS antenna enhances signal reception. You can use pre-installed navigation apps or download others from the app store. Offline maps are supported; download map data for your desired area when connected to WiFi, then use it without an internet connection.

Motherboard Feature Overview

Audio Output
4-channel, 5532 Op-Amp
Ultra-Low 5 nV/√Hz Noise
for Pure Audio Fidelity.

TDA7850 Amplifier
* 4 x 20W (RMS)
* 50W Max/Channel (at 14.4V)
* 20Hz - 20kHz Frequency
Response
* THD+N < 0.1%

Image Processor TP2815
Enabling AR cameras (Front & Rear) live view and a 360° panoramic camera.

Main Processor: ARM QCM6490
GPU: Qualcomm® AdrenoTM 643 @814 MHz
NPU Computing Power: 14 TOPS
Manufacturing Process: 6nm
Benchmark Score: ≈ 660,000 points

Octa-core Kryo 670 CPU:
* 1 x A78 Gold Plus @ 2.7 GHz
* 3 x A78 Gold @ 2.4 GHz
* 4 x A55 Silver @ 1.9 GHz

Image: Multiband GNSS integration for accurate global positioning.

4.4 5G WiFi & 4G Module

Connect to available WiFi networks using the dual-band (2.4GHz, 5GHz, 6GHz) WiFi. For continuous internet access, insert a compatible SIM card into the built-in 4G module. Note that the 4G module supports data services only and cannot make phone calls or send SMS messages.

4.5 AM/FM Radio

Access the radio application to tune into AM and FM stations. You can preset up to 18 FM stations for quick access to news, music, and talk shows.

4.6 Multitasking and App Management

The powerful processor and ample RAM allow for smooth multitasking. You can run multiple applications

simultaneously, such as navigation, music playback, and other third-party apps. Long-press the home icon or use the designated multitasking button to switch between active applications.

Your browser does not support the video tag.

Video: Demonstration of running three applications simultaneously on the JOYING JY-UTS17N12 interface, showcasing its multitasking capabilities.



Image: Navigation, entertainment, and third-party applications running on a single interface.

4.7 Light/Dark Mode

The system supports both light and dark display modes, which can be set for manual switching or automatic adjustment based on time of day or vehicle lighting conditions.

Bluetooth	SBC	AAC	Qualcomm aptX HD
Resolution	16Bit	16Bit/24Bit	24bit/48kHz
Bit Rate	256kbps	320Kbps	576kbps
Bandwidth	20Hz-17kHz	20Hz-20kHz	20Hz-22kHz
Delay	200ms	120ms	60ms
Sound Quality	Normal	Normal	Lossless

Note: aptX/aptX HD Audio: Compatible with Android phones only. The iPhone defaults to the AAC codec.

Image: Light/Dark Mode with manual or automatic switching for optimal visibility.

5. FEATURES OVERVIEW

5.1 Core Hardware

- **Processor:** Qualcomm QCM6490 (6nm process, Octa-core Kryo 670 CPU: 1x A78 Gold Plus @ 2.7 GHz, 3x A78 Gold @ 2.4 GHz, 4x A55 Silver @ 1.9 GHz)

- **GPU:** Qualcomm Adreno TM 643 @ 814 MHz
- **NPU Computing Power:** 14 TOPS
- **Memory:** 12GB RAM
- **Storage:** 256GB

Advanced Engineering High-Efficiency Cooling

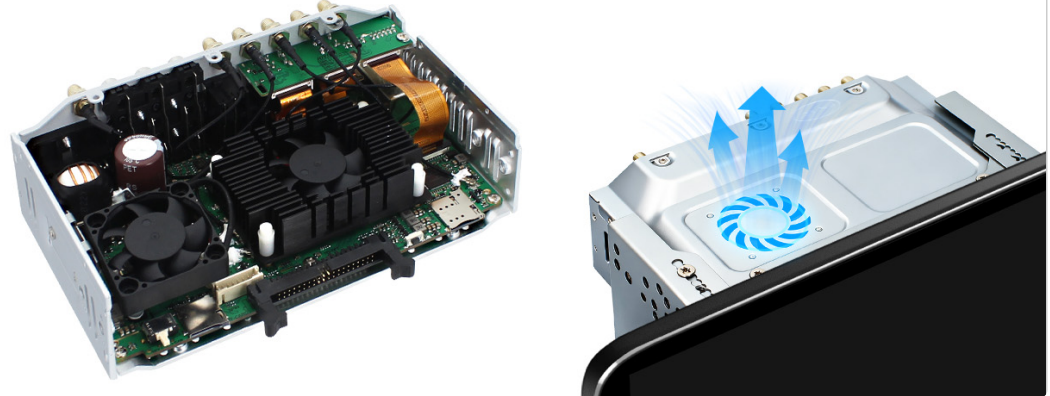


Image: Motherboard feature overview highlighting the Qualcomm Snapdragon 6490 processor.

5.2 Audio System

- **Audio Output:** 4-channel, 5532 Op-Amp for pure audio fidelity.
- **Amplifier:** TDA7850 (4 x 20W RMS, 50W Max/Channel at 14.4V, 20Hz-20kHz frequency response, THD+N < 0.1%).
- **Audio DAC:** AKM 4432 (192kHz PCM input, 32-bit processing, low-distortion, high-fidelity sound reproduction).
- **Audio DSP:** AKM 7739 (24-bit ADC & 32-bit DAC, multi-channel audio processing, VELVET SOUND technology, automotive audio optimized).
- **Sound Customization:** 20 selectable sound effect styles and 48-band EQ.

Optional Accessories

(Note: NOT included in the package and need to be purchased separately.)



AR Front Camera
Record the front road in the background automatically while driving.





OBD2
Connected via Bluetooth to retrieve real-time data and trouble codes from your vehicle computer.





AR Rear Camera
Switch to the reverse display automatically when reversing the car.





During driving, you can freely switch the front camera and rear camera to observe the safe driving environment.

Image: Detailed view of the motherboard's audio processing components.



Image: DTS Sound Enjoyment with 4-channel, 5532 Op-Amp & TDA7850 Amplifier.

Image: 20 selectable sound effect styles and 48-band EQ for precise audio customization.

5.3 Bluetooth Connectivity

Features dual Bluetooth modules: BT1 (QCC3031 with Qualcomm aptX HD audio and cVc echo/noise cancellation) and BT2 (WCN6856 supports dual-band simultaneous (DBS) Bluetooth 5.2 compliant WLAN standards: 802.11ax, 2x2 multiple input, multiple output (MIMO) Wi-Fi 6E).

Image: Bluetooth audio codec comparison, highlighting aptX HD for lossless sound quality.

5.4 Display and Cooling

- **Screen:** 9.5-inch 2K QLED Touch Screen (2000x1200 resolution).
- **Cooling:** Advanced engineering with high-efficiency cooling system to maintain optimal performance.

Image: Advanced engineering for high-efficiency cooling within the head unit.

5.5 Optional Accessories (Sold Separately)

Image: Optional accessories including AR Front Camera, OBD2, and AR Rear Camera.

6. MAINTENANCE

6.1 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 cleaner. Avoid harsh chemicals or abrasive materials.

6.2 Software Updates

Periodically check for software updates provided by JOYING to ensure optimal performance, security, and access to new features. Follow the instructions provided with the update package carefully.

7. TROUBLESHOOTING

If you encounter issues with your JOYING JY-UTS17N12, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Unit does not power on	Incorrect wiring, blown fuse, vehicle battery issue	Check power connections, inspect vehicle fuses, ensure battery is charged.
No sound from speakers	Speaker wiring issues, volume too low, audio settings	Verify speaker connections, increase volume, check audio output settings (e.g., fader/balance).
GPS signal lost or inaccurate	GPS antenna obstruction, faulty antenna connection	Ensure GPS antenna has a clear view of the sky, check antenna connection.
CarPlay/Android Auto not connecting	Incorrect USB cable, Bluetooth/WiFi not enabled, phone compatibility	Use a high-quality USB cable, ensure Bluetooth and WiFi are active on both devices, check phone compatibility.
Slow performance or app crashes	Too many apps running, low storage, outdated software	Close unused apps, clear cache, perform a software update, or factory reset if necessary.

If the problem persists after attempting these solutions, please contact JOYING customer support for further assistance.

8. SPECIFICATIONS

Feature	Detail
Model Number	JY-UTS17N12
Operating System	Android
Screen Size	9.5 Inches
Display Type	2K QLED Touch Screen
Processor	Qualcomm QCM6490 (Octa-core)
RAM	12GB
Internal Storage	256GB
Connectivity	5G WiFi (2.4/5/6 GHz), Bluetooth 5.2, Built-in 4G Module, USB, Ethernet
Navigation	GPS, GLONASS, BeiDou, Galileo (Multiband GNSS)
Car Integration	Wireless/Wired CarPlay & Android Auto, Steering Wheel Control (SWC)
Audio Output Mode	Stereo (4-channel, DSP, DAC, TDA7850 Amplifier)
Radio Tuner	NXP TEF6686 (Automotive-Grade, FM/AM/RDS Support)
Compatible Devices	Camera, Smartphone

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The JOYING JY-UTS17N12 Android Car Stereo comes with a **2-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.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact JOYING customer support through their official website or the retailer where the product was purchased. Have your model number (JY-UTS17N12) and proof of purchase ready when contacting support.