

JOYING JY-UTS18N12

JOYING 10.4 Inch Car Stereo 2K QLED Touch Screen User Manual

Model: JY-UTS18N12

1. INTRODUCTION

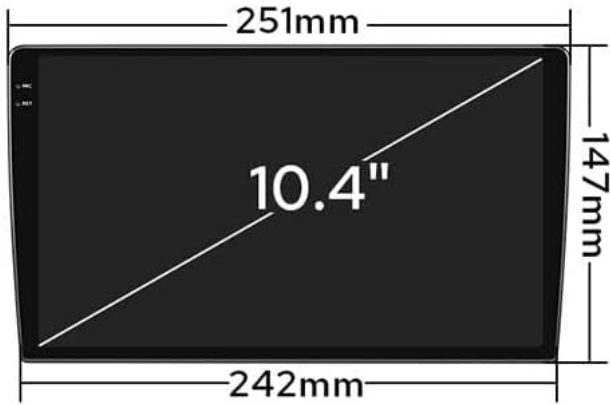
This manual provides detailed instructions for the installation, operation, and maintenance of your JOYING 10.4 Inch Car Stereo 2K QLED Touch Screen (Model JY-UTS18N12). Please read this manual thoroughly before using the product to ensure proper functionality and to prevent damage. Keep this manual for future reference.

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.

- 10.4" Radio Unit
- Single DIN Cage
- Mounting Sleeve
- Plastic Trim Out
- Left & Right Brackets
- Extraction Keys (2)
- Universal Cable
- BT Antenna
- WiFi Antennas (2)
- 4G Antennas (2)
- GPS Antenna
- USB Cables (2)
- External Microphone
- AR Cable
- Screen Ribbon Cable
- User Manual

Package Contents



Single Din Cage



Mounting Sleeve



Plastic Trim Out



Left & Right Bracket



Extraction Keys



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 image displays the 10.4-inch radio unit, single DIN cage, mounting sleeve, plastic trim, left and right brackets, extraction keys, various cables (universal, USB, AR, screen ribbon), and antennas (BT, WiFi, 4G, GPS), along with the external microphone and user manual.

3. SPECIFICATIONS

Key technical specifications of the JOYING 10.4 Inch Car Stereo:

Brand	JOYING
Model Number	JY-UTS18N12

Screen Size	10.4 Inches
Display Type	QLED
Operating System	Android
Processor	Qualcomm QCM6490 (8-Core)
Memory (RAM)	12GB
Storage (ROM)	256GB
Connectivity	Bluetooth, Ethernet, USB, Wi-Fi (2.4/5/6 GHz), 4G Module
Navigation System	GPS, GLONASS, BeiDou, Galileo
Audio Output Mode	Stereo (4-channel, 5532 Op-Amp, TDA7850 Amplifier)
Special Features	Touchscreen, Wireless CarPlay, Android Auto, DSP, 5G WiFi, Built-in 4G Module

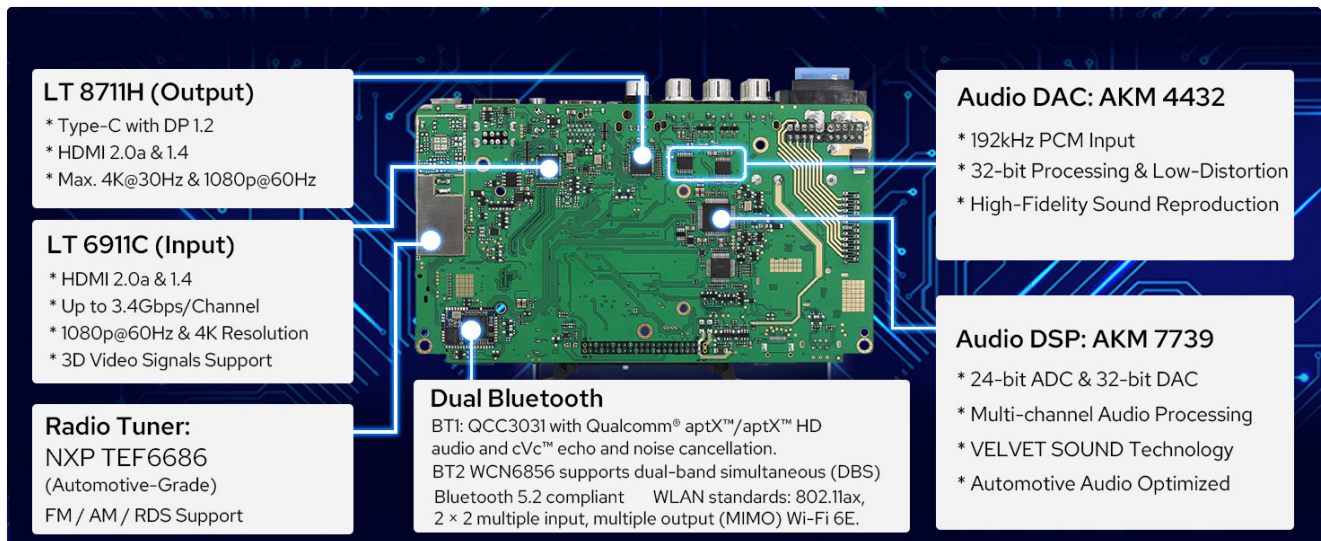


Figure 3.1: Overview of the 10.4-inch Single DIN Car Radio. This image highlights the Snapdragon 6490 processor, 12GB RAM, 256GB storage, 2K QLED display, and Android 13 operating system, alongside a visual representation of the user interface.

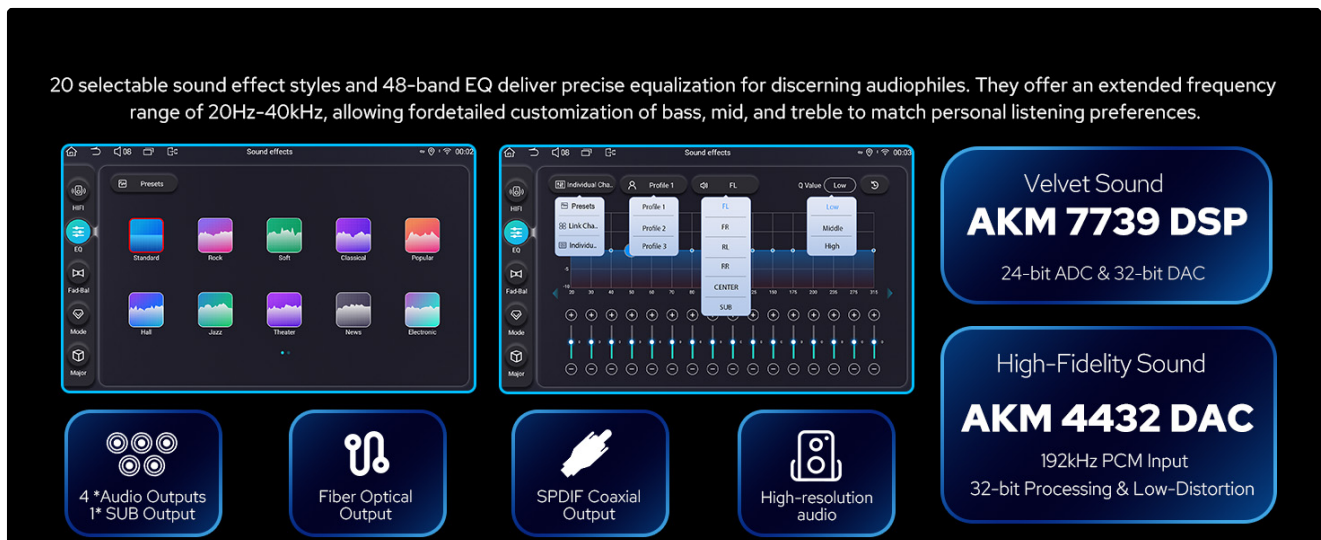


Figure 3.2: Motherboard Feature Overview. This diagram illustrates the internal components, including the Qualcomm QCM6490 processor, TDA7850 amplifier, Audio DAC AKM 4432, Audio DSP AKM 7739, Radio Tuner NXP TEF6686, and Dual Bluetooth modules, along with HDMI input/output and Type-C output capabilities.

4. SETUP AND INSTALLATION

Professional installation is recommended for this car stereo system. Incorrect installation can lead to damage to the unit or your vehicle. Ensure the vehicle's power is disconnected before beginning installation.

4.1 Wiring Connections

Refer to the wiring diagram provided with your unit for specific connections. General connections include:

- **Power:** Connect the main power harness to the vehicle's power supply (constant 12V, accessory, and ground).
- **Speakers:** Connect speaker wires to the corresponding vehicle speaker outputs.
- **Antennas:** Connect the GPS antenna, WiFi antennas, 4G antennas, and Bluetooth antenna to their respective ports. Position the GPS antenna in a location with a clear view of the sky.
- **USB:** Connect USB cables for external devices or data transfer.
- **External Microphone:** Connect the external microphone for improved call quality and voice commands.
- **Optional Connections:** Connect AR cable, HDMI input/output, and other auxiliary inputs/outputs as needed.

Head Unit Rear Interfaces



Figure 4.1: Head Unit Rear Interfaces. This image displays the various connection ports on the back of the car stereo, including HDMI input/output, USB Type-C, antenna ports (WiFi, BT, 4G, GPS), and audio/video outputs, providing a visual guide for wiring.

4.2 Mounting the Unit

Use the provided single DIN cage, mounting sleeve, and brackets to securely install the head unit into your vehicle's dashboard. Ensure the unit is firmly seated and does not obstruct any vehicle controls.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

- **Power On/Off:** Press and hold the power button (if available) or turn on your vehicle's ignition.
- **Touch Screen:** Navigate the interface by tapping, swiping, and pinching on the QLED touch screen.
- **Volume Control:** Adjust volume using the on-screen controls or steering wheel controls (if connected and configured).



Figure 5.1: Navigation, Entertainment, and Third-party Apps Interface. This image illustrates the multi-application interface, allowing users to switch between navigation, media playback (like YouTube), and other installed applications by tapping or long-pressing icons.

5.2 GPS Navigation

The unit features precise GPS navigation with support for multiple satellite systems (GPS, GLONASS, BeiDou, Galileo).

- **Real-time Navigation:** Use pre-installed navigation apps or download your preferred apps from the Google Play Store.
- **Offline Maps:** Download map data for specific regions to use navigation without an internet connection.
- **CarPlay/Android Auto Integration:** Synchronize your phone's map data to the head unit via CarPlay or Android Auto.

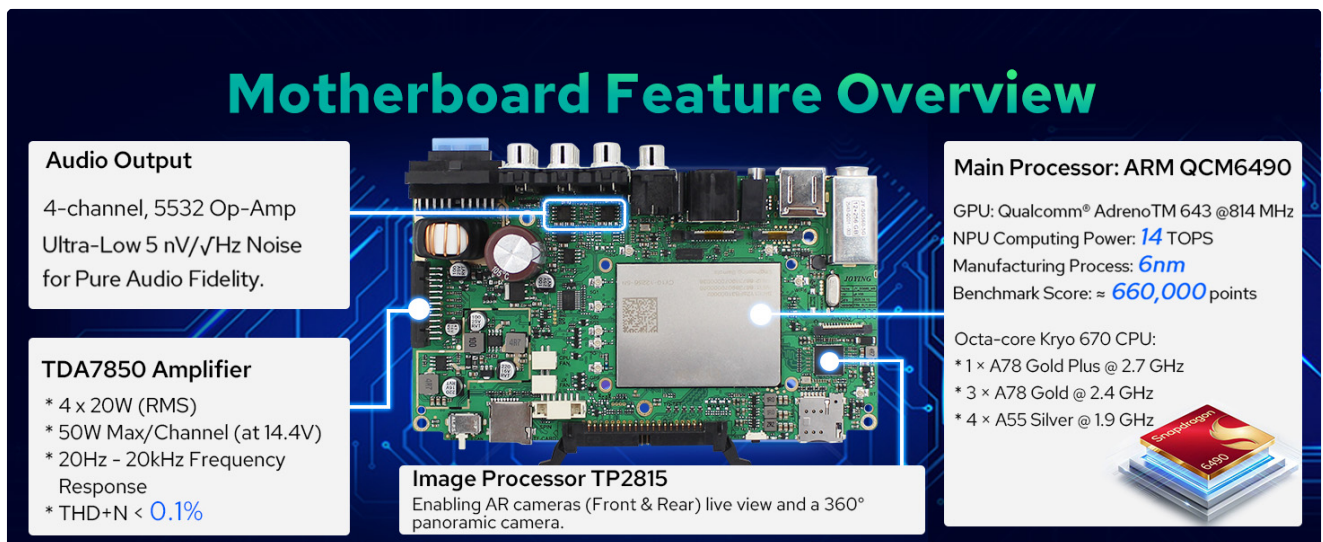


Figure 5.2: Multiband GNSS Integration. This image highlights the unit's support for multiple global positioning systems (GPS, GLONASS, NavIC, BeiDou, Galileo, QZSS) across L1 and L5 bands, ensuring accurate and reliable navigation. It also details Wi-Fi 6E standards and features.

5.3 Wireless CarPlay & Android Auto

Connect your smartphone for seamless integration of apps, navigation, music, and voice control.

- **Connection:** Supports both wired and wireless connections. Follow the on-screen prompts to pair your phone.
- **Features:** Access phone contacts, maps, music, messages, and use voice assistants (Siri or Google Assistant).

5.4 Bluetooth Connectivity

The unit supports dual-mode Bluetooth for simultaneous connections.

- **Pairing:** Enable Bluetooth on your phone and search for the head unit. Select the unit and confirm pairing.
- **Functions:** Hands-free calling, audio streaming, and connection to OBD diagnostic dongles.

Light/Dark Mode with Manual or Auto Switching



Figure 5.3: Dual-mode Bluetooth and Smartphone Integration. This image demonstrates the dual-mode Bluetooth capability, allowing simultaneous connections to two smartphones or a combination of a phone and an OBD dongle. It also shows the wireless CarPlay and Android Auto interfaces.

5.5 5G WiFi & 4G Module

Access the internet for online navigation, streaming, and app downloads.

- **WiFi:** Supports dual-band (2.4GHz, 5GHz, 6GHz) WiFi for stable and high-speed connections.
- **4G Module:** Insert a compatible SIM card for direct internet access. Note that the 4G module does not support phone calls or SMS.

5.6 AM/FM Radio

Enjoy local radio broadcasts.

- **Scanning:** Automatically scan and save available stations.
- **Presets:** Preset up to 18 FM stations for quick access.

5.7 Audio Settings (DSP)

Customize your audio experience with the built-in Digital Signal Processor (DSP).

- **Equalizer:** Adjust the 48-band EQ to fine-tune sound frequencies.
- **Sound Effects:** Choose from 20 selectable sound effect styles.
- **High-Fidelity Audio:** Features AKM 4432 DAC and AKM 7739 DSP for superior sound quality.

Advanced Engineering High-Efficiency Cooling

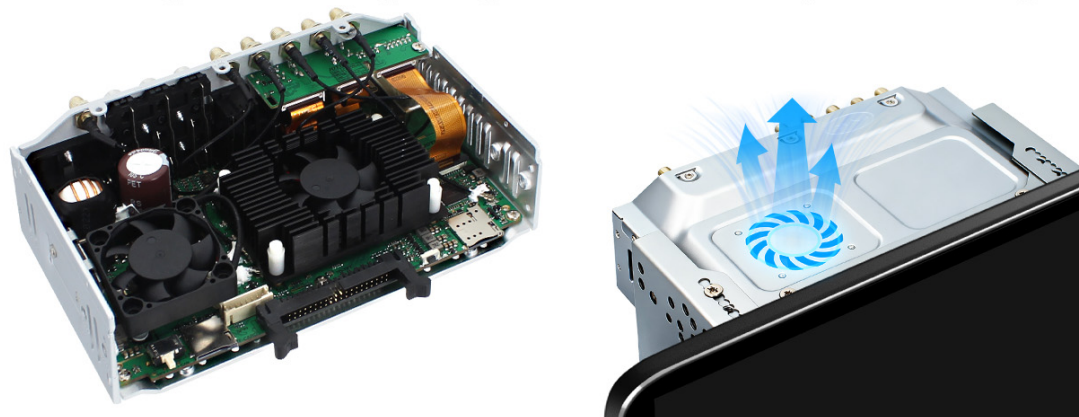


Figure 5.4: Advanced Audio Customization. This image displays the user interface for audio settings, including a 48-band equalizer and various sound effect styles. It emphasizes the integration of AKM 7739 DSP and AKM 4432 DAC for high-fidelity audio output.

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.

Figure 5.5: DTS Sound Enjoyment. This image illustrates the immersive audio experience provided by the 4-channel, 5532 Op-Amp, and TDA7850 Amplifier, creating a rich sound environment within the vehicle.

5.8 Display Settings

Adjust the display mode for optimal viewing.

- **Light/Dark Mode:** Switch between light and dark themes manually or set for automatic switching based on time or ambient light.



Figure 5.6: Light/Dark Mode Display. This image demonstrates the car stereo's ability to switch between light and dark display modes, either manually or automatically, to enhance visibility and reduce eye strain in varying lighting conditions.

6. MAINTENANCE

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

- **Screen Cleaning:** Use a soft, lint-free cloth slightly dampened with water or a screen cleaner. Avoid harsh chemicals.
- **Software Updates:** Periodically check for and install software updates to ensure the system has the latest features and bug fixes.

- **Cooling System:** The unit features advanced high-efficiency cooling. Ensure vents are not obstructed.

Optional Accessories

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



Figure 6.1: Advanced High-Efficiency Cooling. This image highlights the internal cooling system designed to maintain optimal operating temperatures and ensure stable performance of the car stereo.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Unit does not power on	Incorrect wiring, blown fuse, vehicle power issue	Check power connections, inspect fuses, verify vehicle's power supply.
No sound output	Incorrect speaker wiring, volume too low, audio settings issue	Verify speaker connections, increase volume, check audio output settings (e.g., balance, fader, DSP).
GPS signal lost or inaccurate	GPS antenna placement, environmental interference	Ensure GPS antenna has a clear view of the sky. Avoid placing near metal objects.
Bluetooth/WiFi connection issues	Device not paired, interference, incorrect settings	Ensure Bluetooth/WiFi is enabled on both devices. Re-pair devices. Check for other wireless interference.
Touch screen unresponsive	Software glitch, physical damage	Restart the unit. If the problem persists, contact customer support.

For issues not covered here, please refer to the official JOYING support resources.

8. OPTIONAL ACCESSORIES

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

- **AR Front Camera:** Records the road ahead while driving, providing a real-time view.
- **AR Rear Camera:** Automatically switches to a reverse display when backing up, enhancing safety.
- **OBD2 Dongle:** Connects via Bluetooth to retrieve real-time data and diagnostic trouble codes from your vehicle's computer.

Advanced Engineering High-Efficiency Cooling

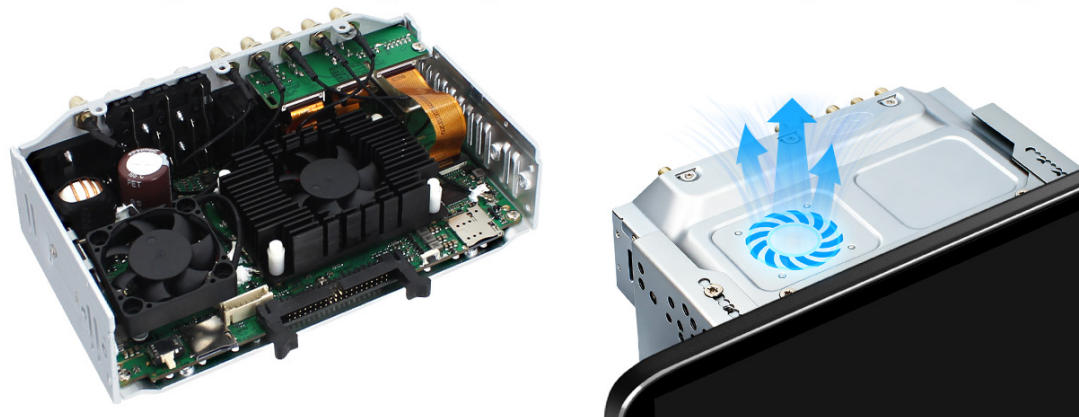


Figure 8.1: Optional Accessories. This image displays additional accessories that can be integrated with the car stereo, including an AR front camera for recording, an OBD2 dongle for vehicle diagnostics, and an AR rear camera for improved reversing safety.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This JOYING product comes with a **2-Year Warranty** from the date of purchase. The 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, warranty claims, or further inquiries, please contact JOYING customer support through their official website or the retailer where the product was purchased. Please have your model number (JY-UTS18N12) and proof of purchase ready when contacting support.