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Roadanvi X12

Roadanvi X12 10.2-inch Head Unit Instruction Manual

For Toyota Tundra 2007-2013 Models

Introduction

This manual provides essential information for the installation, operation, and maintenance of your Roadanvi X12 10.2-inch Head Unit. Designed specifically for Toyota Tundra models from 2007 to 2013, this unit integrates advanced features such as Wireless CarPlay, Android Auto, 4G LTE connectivity, DTS audio, and GPS navigation. Please read this manual thoroughly before installation and use to ensure proper function and safety.



The Roadanvi X12 Head Unit seamlessly integrated into a Toyota Tundra dashboard.

Safety Information

- Always ensure the vehicle is parked and the engine is off before performing any installation or wiring.
- Disconnect the vehicle's battery before starting installation to prevent electrical shorts and damage.
- Consult a professional installer if you are unsure about any part of the installation process.
- Do not operate the device in a way that distracts you from driving. Always prioritize road safety.
- Keep the unit away from water and excessive moisture.

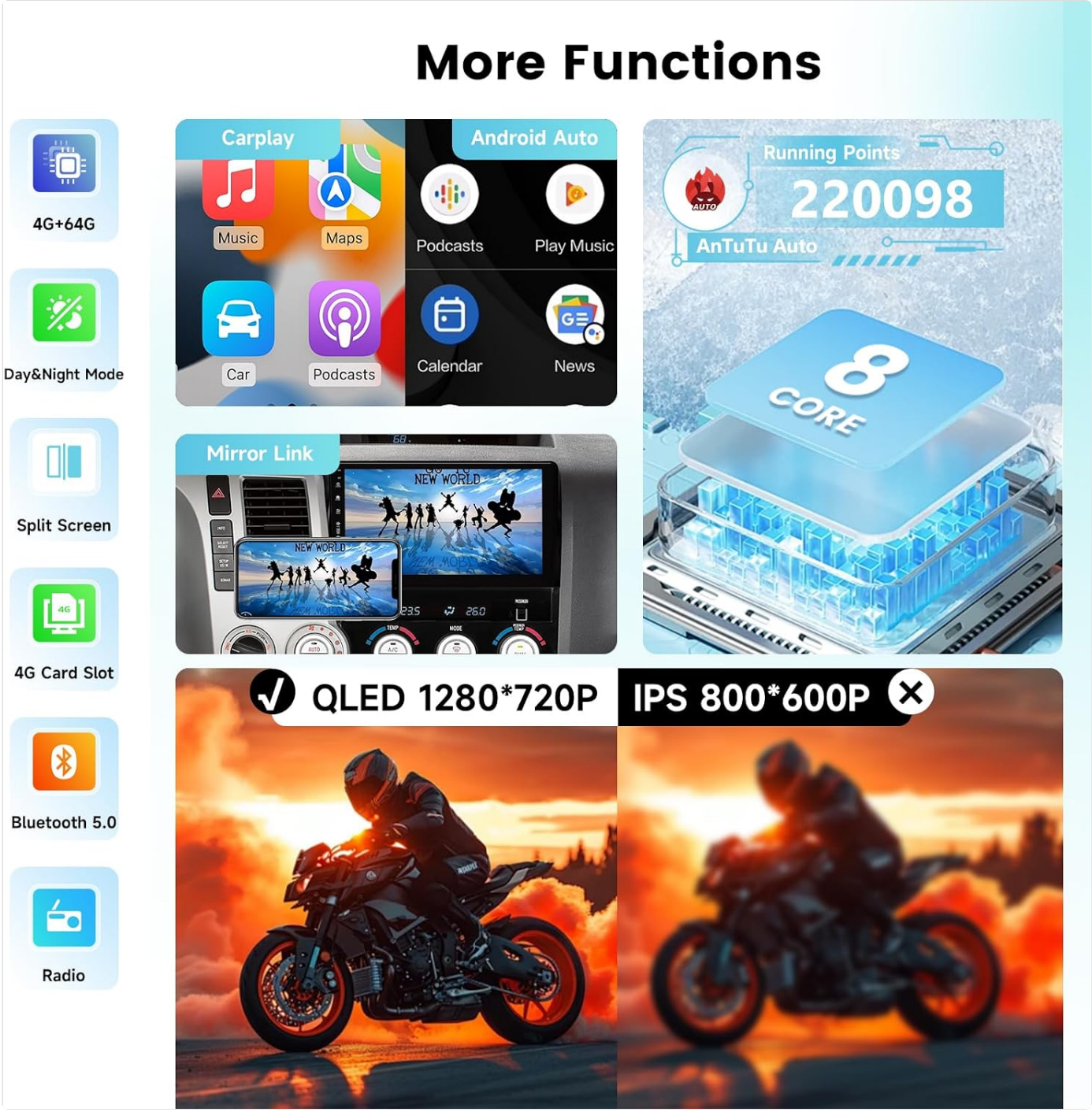
What's in the Box

Your Roadanvi X12 Head Unit package includes the following components:

- Roadanvi X12 Main Unit (10.2-inch screen)

- User Manual
- Audio Output Cables
- Camera Input Cable
- SIM Slot Cable
- Dual USB Cables
- GPS Antenna
- Microphone
- 4G Antenna
- Wi-Fi Antenna
- Power Cable
- CANBUS Decoder
- USB Adapter

Video: Unboxing the Roadanvi X12 Head Unit and its included accessories.



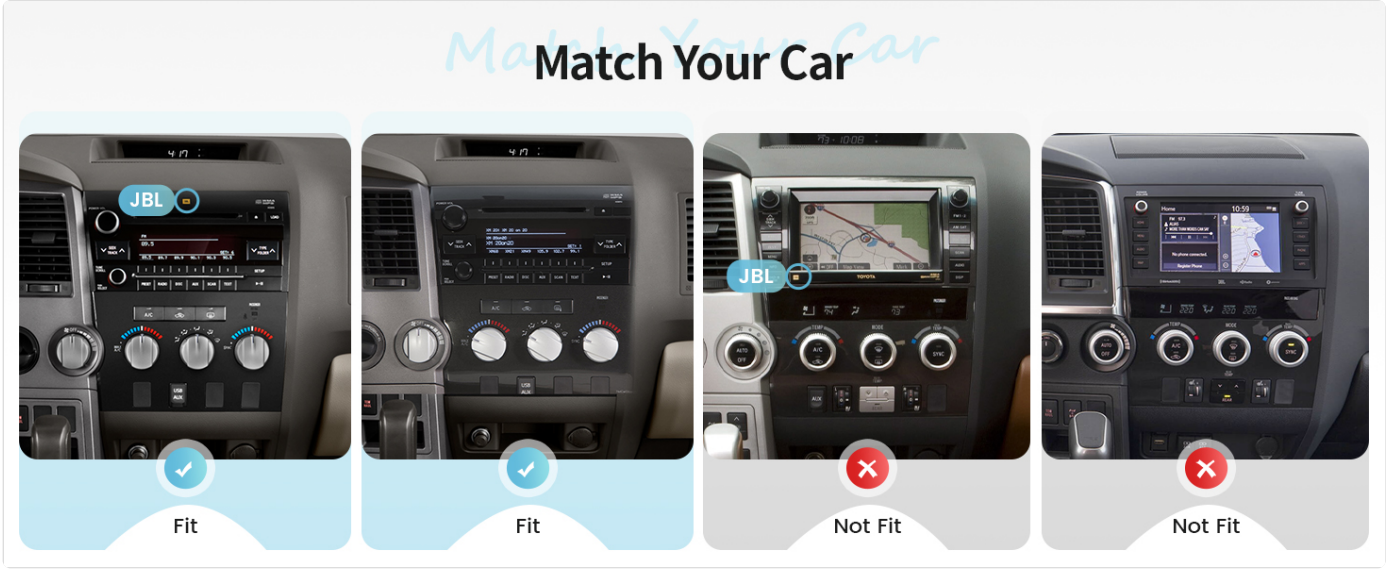
Visual representation of all items included in the Roadanvi X12 package.

Setup and Installation

The Roadanvi X12 Head Unit is designed for a true plug-and-play installation in Toyota Tundra models from 2007-2013. It retains factory features such as the JBL amplifier, steering wheel controls, AC information display, and antenna adapter. No wire cutting is required for standard installations.

Vehicle Compatibility

Ensure your vehicle's dashboard matches the compatible configurations. The unit is designed to fit specific factory radio types.

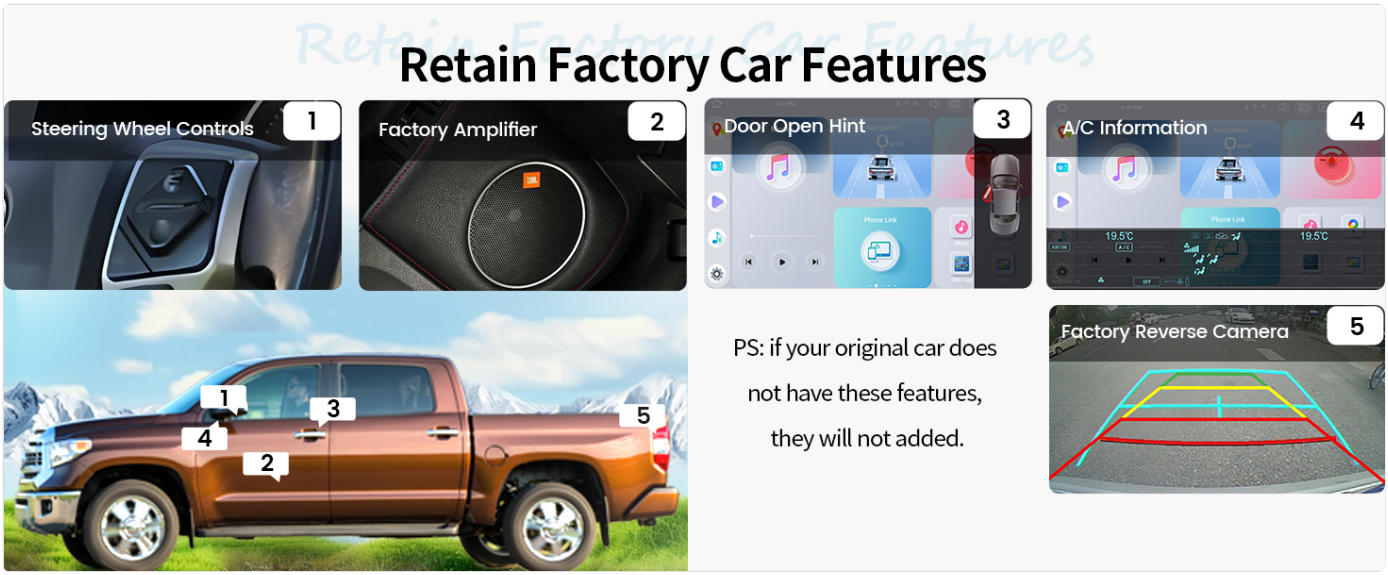


Check your vehicle's dashboard configuration for compatibility.

Retaining Factory Features

The system is engineered to maintain critical factory functionalities:

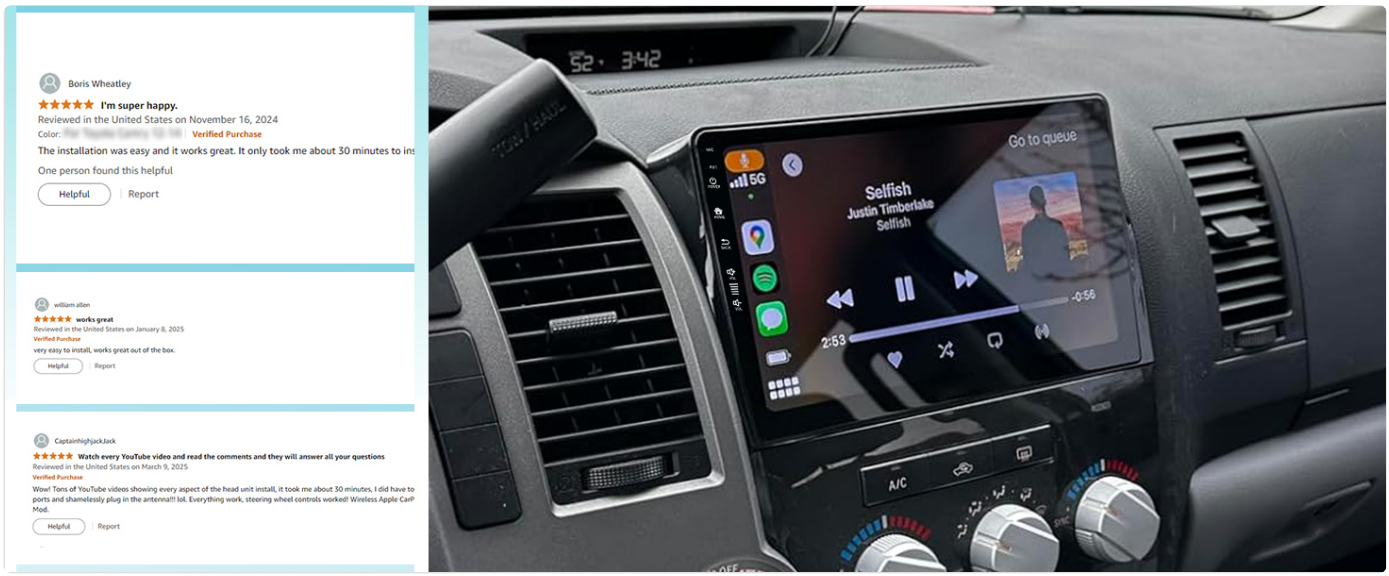
- Steering Wheel Controls
- Factory Amplifier (e.g., JBL)
- A/C Information Display
- Door Open Hint
- Factory Reverse Camera



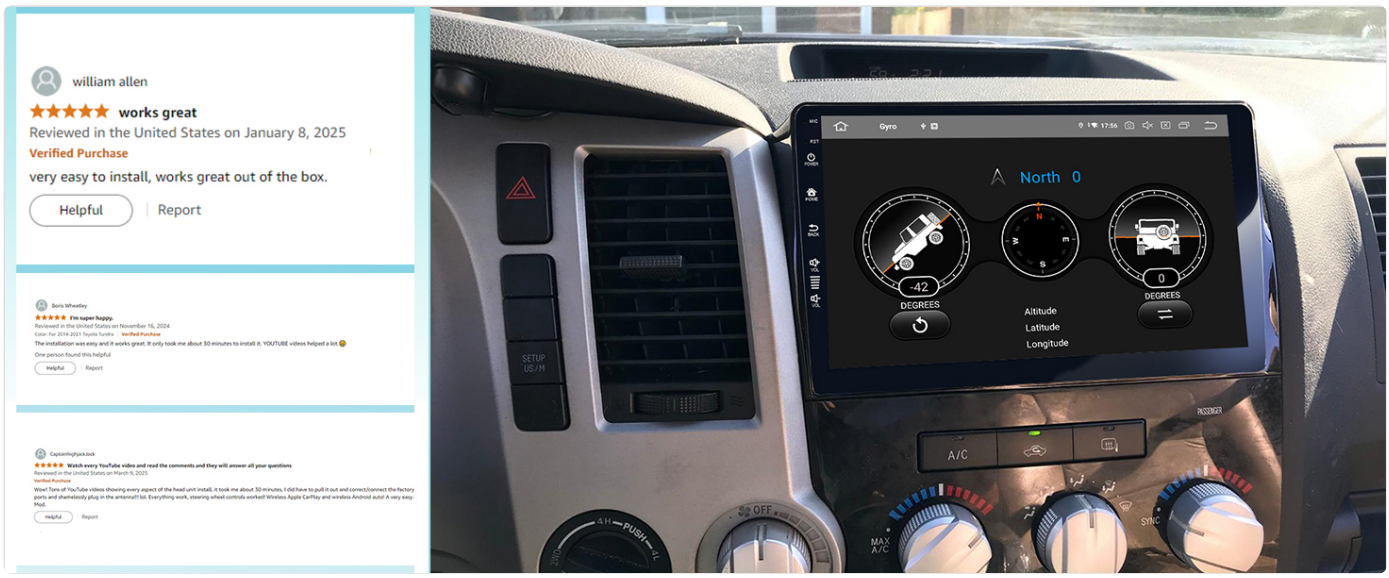
The head unit integrates with existing vehicle systems.

Wiring Diagrams

Refer to the following diagrams for connecting the dedicated wiring harnesses. Ensure the car is turned off and the unit is powered off before connecting any wires.



DYX004-1 Dedicated Wiring Diagram.



CB005-2 Dedicated Wiring Diagram.



General Stereo Wiring Diagram.

SIM Card Installation

To utilize 4G connectivity, insert a compatible 4G SIM card into the provided SIM slot cable. Ensure the engine is off before inserting the SIM card.

1. Choose the correct size of SIM card (Standard 4G SIM Card). Micro and Nano SIM cards are not compatible without an adapter.
2. Carefully insert the SIM card into the slot on the SIM cable.
3. Press the SIM card gently until it clicks into place. To remove, press again to eject.



Instructions for SIM card insertion.

Operating Instructions

System Performance

The Roadanvi X12 operates on Android 12, powered by an advanced Unis7862S Octa-core processor with 4GB RAM and 64GB storage. This configuration ensures fast app launches, smooth multitasking, and a responsive user experience.

Wireless Connectivity (CarPlay, Android Auto, Mirror Link)

Enjoy seamless smartphone integration with Wireless Apple CarPlay, Wireless/Wired Android Auto, and Wireless Mirror Link. Connect your phone to access navigation, messages, music, and more via voice commands or the touch screen.

Video: Demonstration of CarPlay functionality on the 10.2-inch display.



Multiple options for smartphone integration.

Audio System (DTS Sound & Fiber Optic Output)

Experience high-fidelity, immersive surround sound with DTS processing and 4x50W high-power output. The fiber optic output provides a pristine digital signal for external amplifiers, enhancing sound quality significantly.



DTS sound processing for enhanced audio experience.



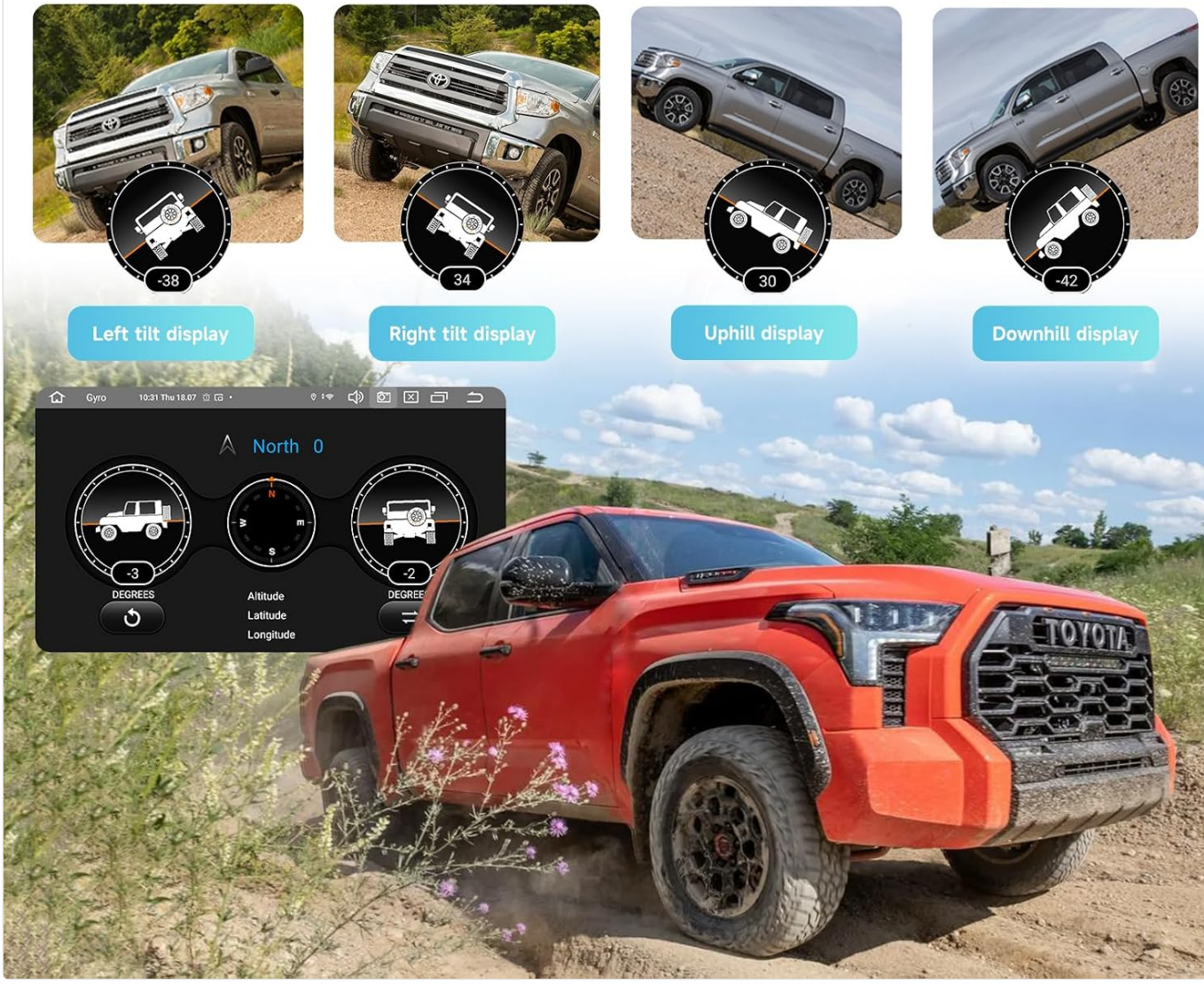
Fiber Optic Output for superior audio quality.

Off-Road Inclinometer

The built-in gyro sensor and compass monitor your Tundra's roll and pitch angles in real-time, displaying precise off-road data. Receive alerts if angles exceed safe limits, enhancing security during challenging terrain navigation.

Off-Road Inclinometer

Gyroscope uses the compass to monitor the vehicle's tilt and pitch angles, providing data to the stability control system to improve driving safety.



Real-time off-road tilt and pitch monitoring.

Day and Night Mode

The UI intelligently switches between day and night, making viewing clearer and more intuitive during the day and reducing screen irritation to your eyes at night.



Monitor vehicle stability on challenging terrains.

Navigation (Online & Offline)

Utilize the GPS antenna for accurate real-time navigation. Insert a 4G SIM for live traffic updates or rely on preloaded offline maps when cellular service is unavailable. Supports popular navigation apps.



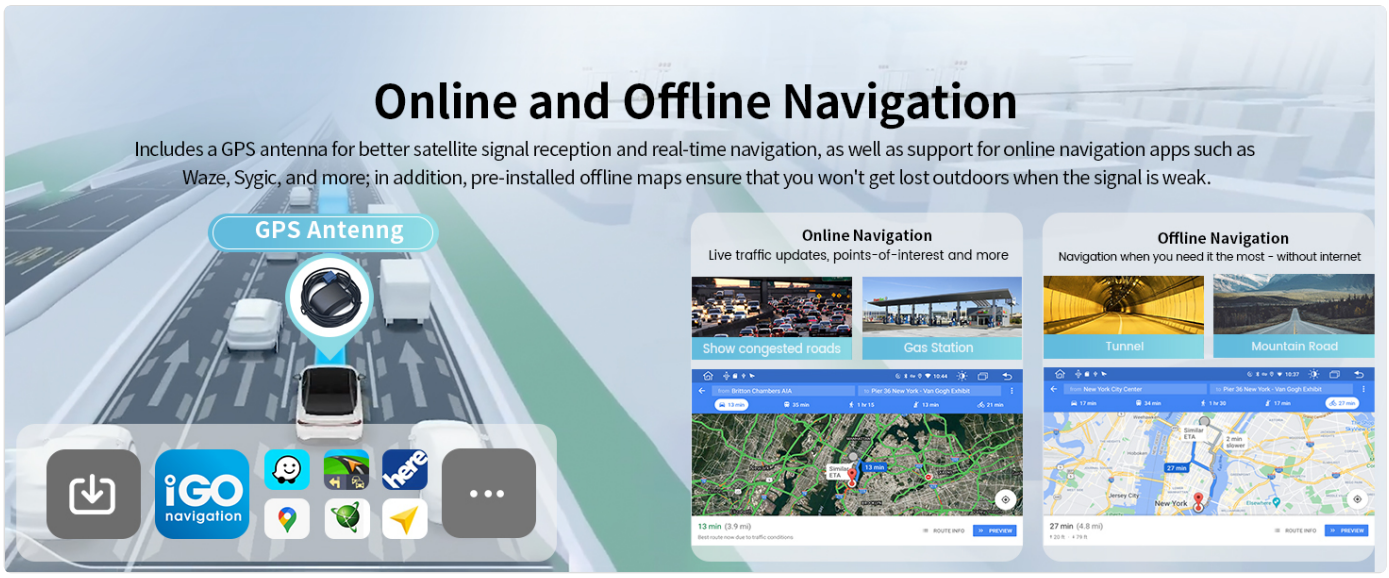
Reliable navigation with online and offline map options.



Stay connected with 4G LTE and Wi-Fi.

Display and User Interface

The 10.2-inch QLED touch screen offers a 1280x720 resolution, providing superior color accuracy, brightness, and contrast compared to standard IPS screens. The user interface includes a Day and Night Mode for optimal visibility in varying light conditions.



QLED screen for a vibrant and clear display.



Day and Night Mode for optimal screen visibility.

Bluetooth 5.0

The integrated Bluetooth 5.0 module provides a fast and stable connection for hands-free calling, Bluetooth music playback, and automatic phonebook loading.



Bluetooth 5.0 for seamless wireless communication.

Maintenance

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the screen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid harsh chemicals.
- **Software Updates:** Periodically check for software updates to ensure optimal performance and access to new features. Follow on-screen prompts or refer to the support section for instructions.
- **General Care:** Avoid exposing the unit to extreme temperatures or direct sunlight for prolonged periods. Ensure all connections are secure.

Troubleshooting

Problem	Possible Cause	Solution
Unit does not power on	Loose power connection; Blown fuse; Vehicle battery low	Check power cables; Inspect vehicle fuses; Charge/check vehicle battery
No sound output	Volume too low; Mute activated; Speaker wires disconnected; Amplifier issue	Increase volume; Check mute setting; Verify speaker connections; Check amplifier status
Touch screen unresponsive	Software glitch; Screen calibration issue	Restart the unit; Perform a factory reset (refer to settings menu)
GPS signal weak/lost	GPS antenna obstructed or improperly installed	Ensure GPS antenna has a clear view of the sky and is securely connected
CarPlay/Android Auto not connecting	Bluetooth/Wi-Fi off; Phone compatibility issue; Software glitch	Ensure phone's Bluetooth/Wi-Fi is on; Check phone compatibility; Restart phone and head unit

Specifications

Feature	Detail
Model	Roadanvi X12
Screen Size	10.2 Inches
Display Type	QLED Touch Screen
Resolution	1280x720
Operating System	Android 12
Processor	Unis7862S Octa-core
RAM	4GB

Feature	Detail
Storage Capacity	64GB
Connectivity	Bluetooth 5.0, USB, Wi-Fi, 4G LTE
Audio Output Power	4x50W
Special Features	Wireless CarPlay, Android Auto, Mirror Link, DTS Sound, Fiber Optic Output, Off-Road Inclinometer, GPS Navigation (North America maps)
Item Weight	5.79 pounds
Package Dimensions	13.8 x 8.7 x 8.6 inches

Warranty Information

The Roadanvi X12 Head Unit comes with a**1-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, accidents, misuse, unauthorized modifications, or natural disasters. Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Roadanvi customer support:

- **Email:** office@roadanvi.com
- **Online Support:** Visit the official Roadanvi website or Amazon store page for FAQs and additional resources.

When contacting support, please have your product model (X12) and purchase details ready.

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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