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Biorunn DUDU7, 12GB RAM 256GB ROM

User Manual: Biorunn DUDUAUTO Android 13 Car Radio Stereo

Model: DUDU7, 12GB RAM 256GB ROM
Brand: Biorunn

INTRODUCTION

Thank you for choosing the Biorunn DUDUAUTO Android 13 Car Radio Stereo. This advanced head unit is designed to enhance your in-car entertainment and navigation experience with its powerful Android 13 operating system, 12.3-inch QLED display, and comprehensive features including wireless CarPlay/Android Auto, Dual Band GPS, and high-fidelity audio processing. This manual provides essential information for proper installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

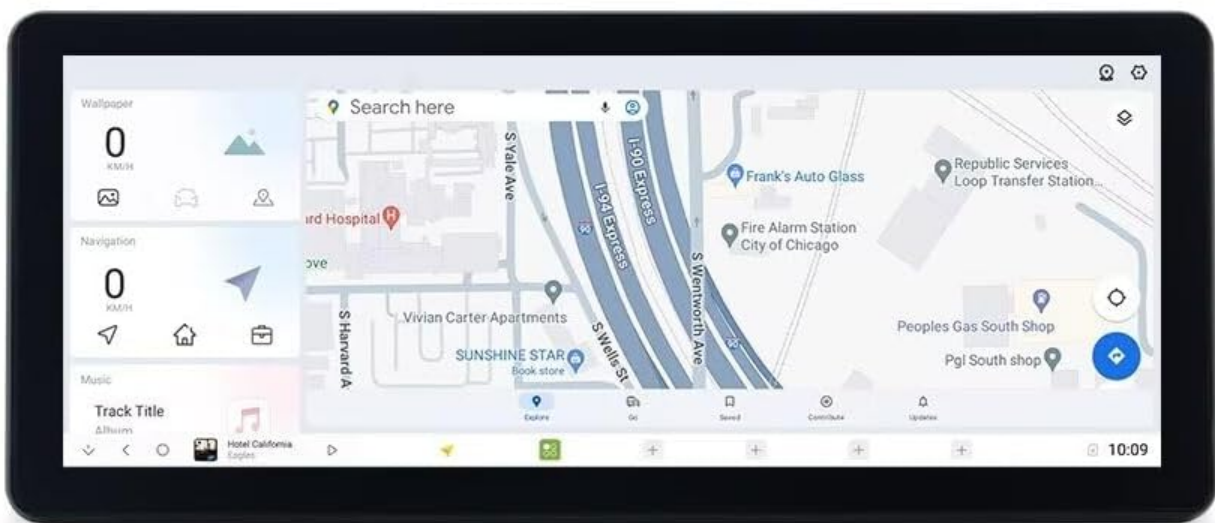


Image: Front view of the DUDUAUTO Android 13 Car Radio Stereo, showcasing its 12.3-inch QLED display with a navigation map.

SAFETY INFORMATION

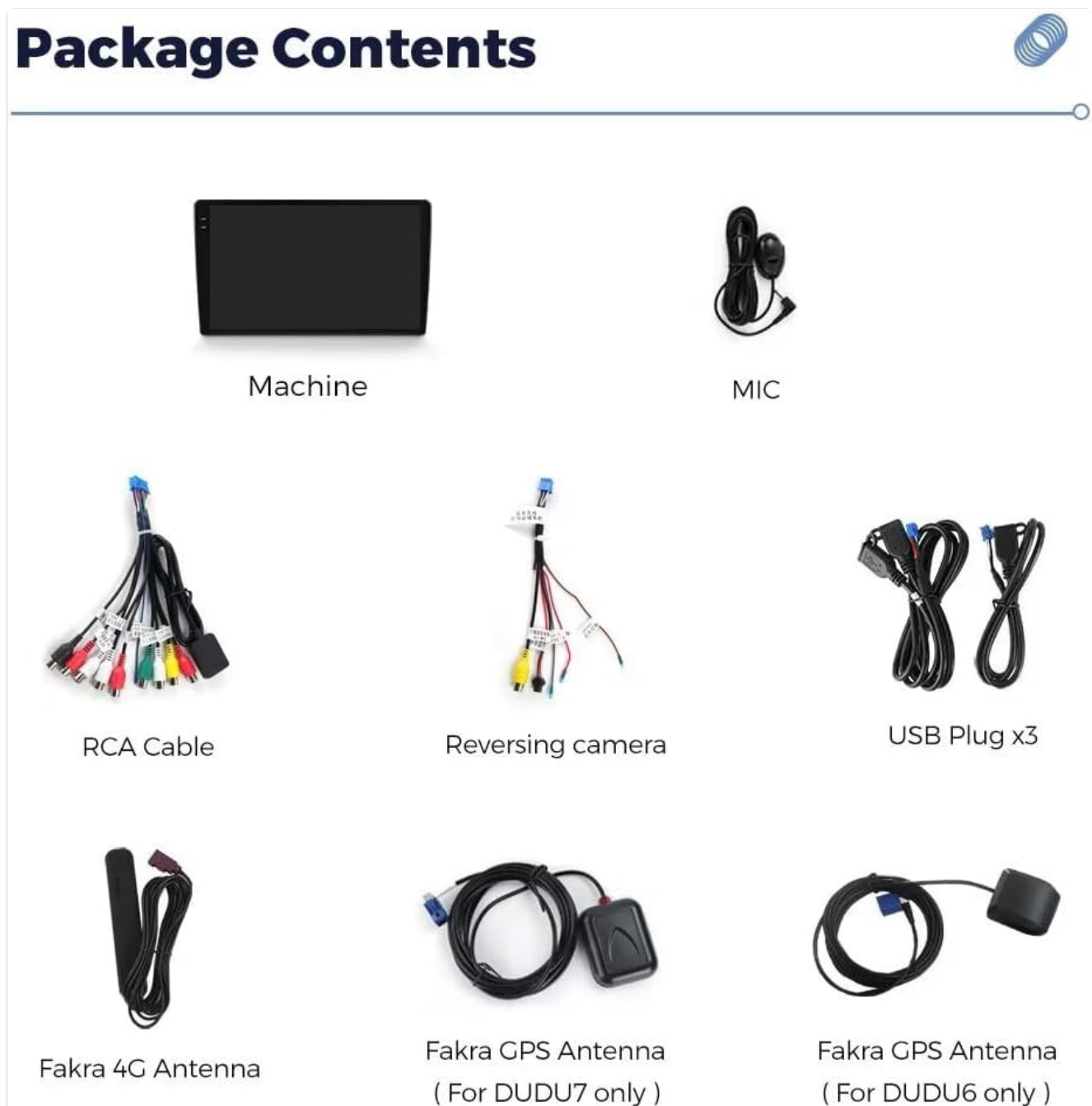
Please read all safety instructions carefully before installation and operation. Failure to follow these guidelines may result in injury, damage to the device, or damage to your vehicle.

- Ensure the vehicle's ignition is off and the battery is disconnected before beginning installation to prevent electrical short circuits.
- 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.
- Avoid exposing the device to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.
- Use only specified power cables and accessories provided with the unit or approved by the manufacturer.

PACKAGE CONTENTS

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

Package Contents



The image displays the following items:

- Machine**: A black rectangular car stereo head unit.
- MIC**: A small black microphone with a coiled cable.
- RCA Cable**: A bundle of multi-colored RCA cables with a blue connector.
- Reversing camera**: A camera module with a blue connector and several colored wires.
- USB Plug x3**: Three black USB cables of varying lengths.
- Fakra 4G Antenna**: A black antenna cable with a red connector.
- Fakra GPS Antenna (For DUDU7 only)**: A black GPS antenna module with a blue connector and a coiled cable.
- Fakra GPS Antenna (For DUDU6 only)**: A black GPS antenna module with a blue connector and a coiled cable.

Image: Visual representation of the DUDUAUTO car stereo package contents, including the main unit, various cables, and antennas.

- Main Head Unit (12.3 Inch QLED Screen)

- Microphone (MIC)
- RCA Cable Set
- Reversing Camera (Optional, may vary by package)
- USB Plugs (x3)
- Fakra 4G Antenna
- Fakra GPS Antenna (for DUDU7)
- Power Cable
- User Manual (this document)

PRODUCT OVERVIEW AND KEY FEATURES

The Biorunn DUDUAUTO car stereo is equipped with advanced hardware and software to provide a superior user experience.

- **Operating System:** DUDU OS 3.0 based on Android 13 (API33).
- **Processor:** UIS7870 8-Core CPU (6nm process), offering enhanced performance.
- **Memory & Storage:** 12GB RAM + 256GB ROM (UFS 3.1 Read Data 1700MB/s).
- **Display:** 12.3-inch QLED Screen with 1920x1200 resolution.
- **Audio:** Built-in DSP (Digital Sound Processor) with AKM7739 Velvet Audio Technology, TDA7808 digitally enhanced amplifiers, and OpAmp 5532*3 for enhanced audio quality.
- **Connectivity:** Support for 4G LTE, 5G WIFI, Bluetooth (Qualcomm 3031 for lossless BT sound quality).
- **Navigation:** Dual Band GPS (L1 L5 B1 B2a E1 E5a) for improved positioning accuracy.
- **Smartphone Integration:** Built-in Wireless/Wired CarPlay and Android Auto.
- **USB:** USB 3.2 Gen 1 Type-C port.

UIS 7870
CPU performance surpass 8155

Stable operation
7x performance

AKM7739 DSP
Velvet Audio Technology

2K·HD QLED Screen

TDA 7808
Digitally enhanced amplifiers

8-Core 6nm EUV

Android 13
API33

Dual Band GPS
Better Positioning and Signal
6mode L1 L5 B1 B2a E1 E5a

OpAmp 5532*3
Enhanced audio quality

Sound Quality Surpass Original Car
High-end audio technology

Digital noise reduction MIC

USB 3.2 Gen 1 Type-c port

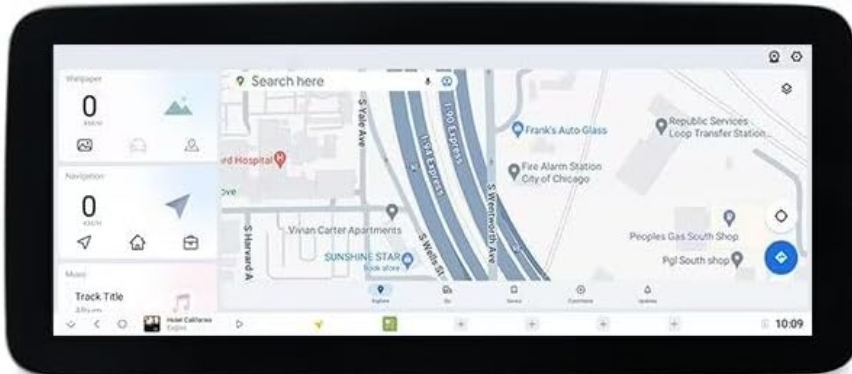
DUDU OS
New custom customization
More Smarter, More Innovation

Qualcomm 3031
Lossless BT sound quality

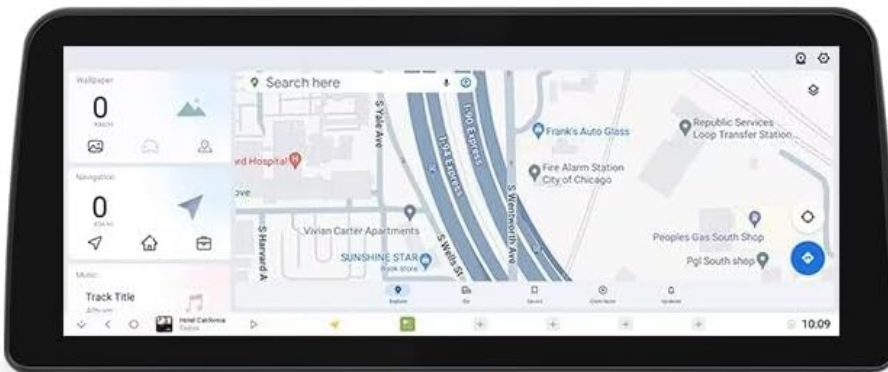
Image: Overview of the DUDUAUTO's core technologies and specifications.



12.3inch - Style A



12.3inch - Style B



12.3inch - Style C

Image: Different styles of the 12.3-inch DUDUAUTO unit, illustrating variations in design.

Connection Points:

Familiarize yourself with the rear connection ports of the DUDU7 unit:

DUDU7

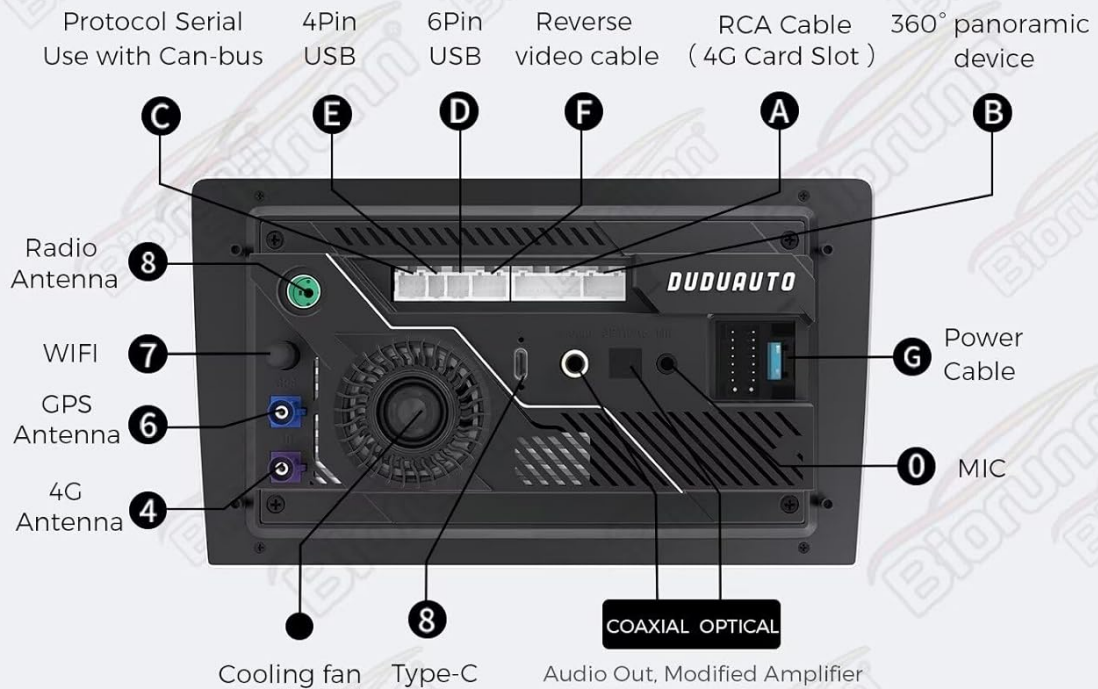


Image: Rear view of the DUDU7 unit, detailing all input and output ports.

1. **Power Cable (G)**: Connects to the vehicle's power supply.
2. **Radio Antenna (8)**: For FM/AM radio reception.
3. **WiFi Antenna (7)**: For wireless internet connectivity.
4. **GPS Antenna (6)**: For navigation and positioning.
5. **4G Antenna (4)**: For cellular data connectivity.
6. **MIC (0)**: External microphone input for clear voice calls and commands.
7. **USB Ports (D, E)**: Multiple USB inputs for media playback and device connection.
8. **Type-C (8)**: USB Type-C port.
9. **Coaxial Optical Output**: For high-quality audio output to external amplifiers.
10. **RCA Cable (A)**: For audio/video input/output, including 4G card slot.
11. **Reverse Video Cable (F)**: For connecting a reversing camera.
12. **Protocol Serial Use with Can-bus (C)**: For vehicle data integration.
13. **360 Panoramic Device (B)**: For optional 360-degree camera system.

General Installation Steps (Consult a professional):

- Disconnect the vehicle's battery.
- Remove the existing car stereo or dashboard trim.
- Connect the wiring harness from the new unit to the vehicle's wiring. Ensure all connections are secure.
- Connect the GPS, 4G, and WiFi antennas, positioning them for optimal signal reception.
- Connect any optional accessories such as the reversing camera or external microphone.
- Carefully slide the new head unit into the dashboard opening.
- Reconnect the vehicle's battery and test the unit's functionality.

OPERATING INSTRUCTIONS

Power On/Off:

The unit typically powers on automatically with the vehicle's ignition. To manually power off or restart, use the designated power button on the unit or through the software interface.

DUDU OS 3.0 Interface:

The DUDU OS 3.0 offers a customizable and intuitive user experience. You can switch between simplified and enthusiast modes, customize layouts, and apply dynamic wallpapers.

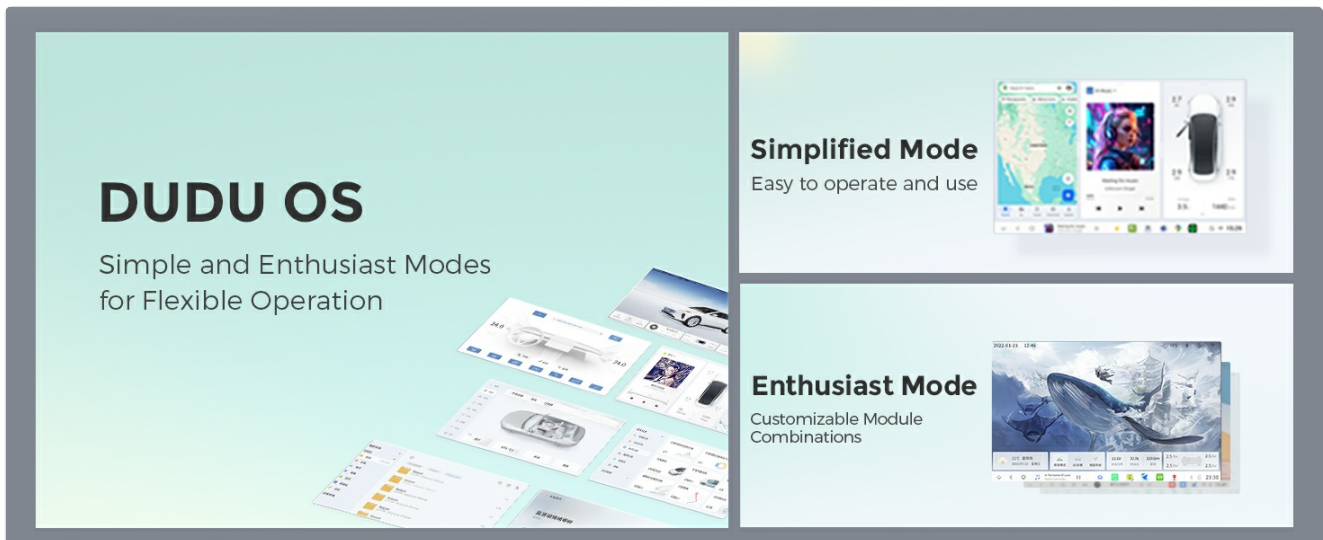
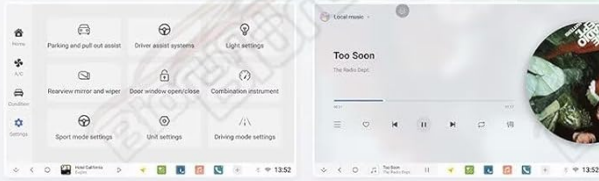


Image: DUDU OS interface demonstrating different operational modes.

DUDU OS 3.0

New custom dynamic wallpaper



Daytime

Light mode



dark mode

Night

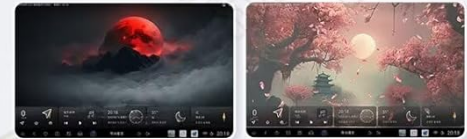


Image: Examples of DUDU OS 3.0 customization options, including dynamic wallpapers and themes.

Navigation (Dual Band GPS):

Utilize the built-in Dual Band GPS for precise and reliable navigation. The system supports L1+L5 joint positioning for enhanced accuracy, meeting lane-level navigation requirements.

Dual Band GPS L1+L5, Better Positioning and Signal

Built-in Dual Band GPS 6-mode positioning chip, support L1 +L5 joint positioning. Positioning speed and accuracy in big increased. Meets the needs of lane-level navigation and positioning accuracy up to 1 meter.

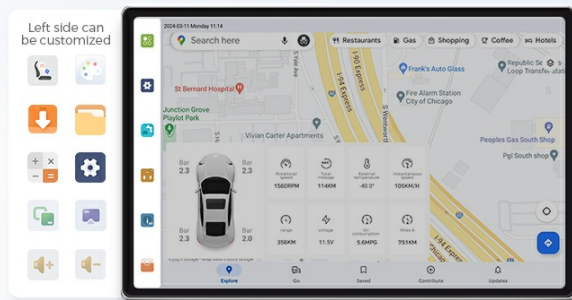


Image: Explanation of Dual Band GPS technology for improved navigation.

The navigation bar can be customized and displayed globally, allowing for flexible positioning (left/bottom) and content customization.

Custom navigation bar enhancements

Now the navigation bar can be displayed globally, the position can also be switched to the left/bottom display, and the more exaggerated is that the display content can be customized, which is simply too easy to use.



In addition to supporting content customization, the bottom can also be hidden by a key and displayed by swiping up

Image: Examples of customizable navigation bar layouts.

Wireless CarPlay / Android Auto:

Connect your smartphone wirelessly or via USB to access CarPlay or Android Auto. This allows you to use phone functions like navigation, music, calls, and messages safely while driving.

Support Car-Play and Android Auto

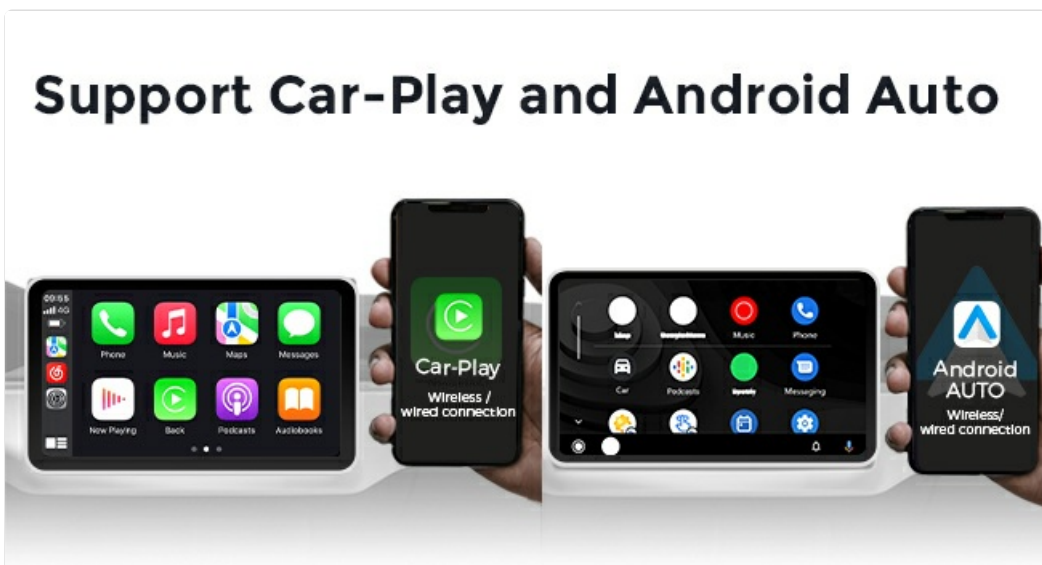


Image: Visual representation of CarPlay and Android Auto integration.

Audio Features:

Experience superior sound quality with the integrated DSP and high-fidelity audio components. Adjust equalizer settings and sound profiles to your preference.

Custom Gestures and Picture-in-Picture:

The unit supports full-screen custom gestures for convenient control of various functions (e.g., home, back, multitasking, volume). It also features desktop and application integration with a picture-in-picture function, allowing multiple apps to be viewed simultaneously (note: functionality may vary by app).

Full screen custom gestures

Provide a variety of gesture combinations and customization options, you can customize the corresponding gesture function, so that the car machine is more convenient to use.

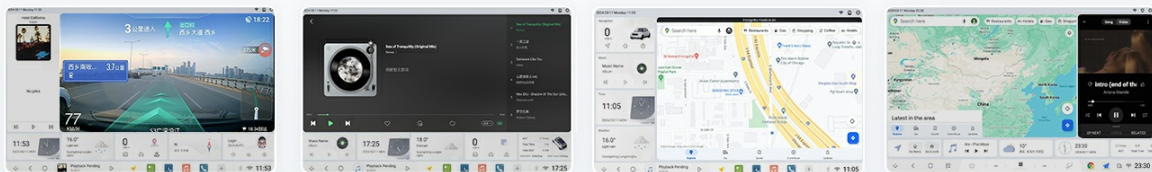
Customizable functions are as follows:
Home, back, multitasking, shortcut APP launch bar, top status bar, open associated APP, volume increase, volume decrease mute.



Image: Examples of customizable full-screen gestures.

Desktop and application integration Picture-in-picture function

Dare to break application boundaries and encourage cross-border cooperation, which is not only a challenge to the existing framework, but also a redefine and shape the future.



AR Navigation

Music playback

MAP

Music / video playback

Note: This function is not supported by all apps, and there will be instability

Image: Demonstration of multi-application display and picture-in-picture functionality.

Extended Rear Entertainment System:

The unit supports connecting an extended rear entertainment system via a Type-C touch-screen convenience screen. This allows for simultaneous navigation on the front screen and entertainment on the rear screen. (Note: Corresponding accessories are not included and must be purchased separately).

Extended rear entertainment system

now supports a line through the TYPE-C touch-screen convenience screen, it can realize the front screen at navigation and back screen at entertainment and make it more smarter use



Maximum output 2K resolution



support Type-c connection



Bidirectional control
Different screens show different things

Note: The above is only functional support, the package does not include the corresponding accessories products, support the first-line touch screen screen +Type-c extension cable need to purchase.

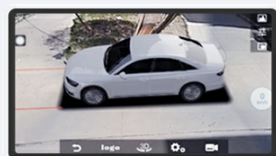
Image: Concept of the extended rear entertainment system.

360° Panorama (Optional):

If equipped with the optional 360° panoramic image function, you can install four cameras to obtain a full 360° view around your vehicle, helping to eliminate blind spots and avoid potential risks. This feature supports reverse mode, pull over mode, starting mode, and turning pattern views.

360° panorama Seeing the blind spot (optional)

Built-in 360 panoramic image function (optional) , only need to install 4 cameras to obtain 360° images around, so that you can see around the blind area to avoid potential risks.

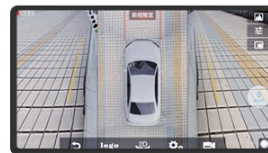


3D surround mode

When the car starts the power the car automatically switches to 360°panoramic mode, which is convenient to view the hidden dangers around the car



Reverse mode



Pull over mode



Starting mode

Note: Dynamic trajectory is not supported by all models



Turning pattern

Image: Examples of the optional 360° panoramic view modes.

MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to wipe the screen and unit body. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid abrasive materials or harsh chemicals.
- **Software Updates:** Periodically check for and install software updates provided by Biorunn to ensure the system runs efficiently and has the latest features and security patches.
- **Avoid Extreme Conditions:** Do not expose the unit to extreme heat or cold, as this can affect electronic components and the display.
- **Cable Connections:** Periodically check all cable connections to ensure they are secure and free from damage.

TROUBLESHOOTING

If you encounter issues with your car stereo, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Unit does not power on.	Loose power connection, blown fuse, vehicle battery issue.	Check power cable connections. Inspect vehicle fuses. Ensure vehicle battery is charged.
No sound.	Volume too low, mute activated, speaker wiring issue, incorrect audio source.	Increase volume. Check mute setting. Verify speaker connections. Select correct audio source.
GPS signal weak or inaccurate.	GPS antenna obstructed or improperly installed.	Ensure GPS antenna has a clear view of the sky. Check antenna connection.
CarPlay/Android Auto not connecting.	Bluetooth/Wi-Fi off on phone, incorrect settings, incompatible phone.	Ensure Bluetooth and Wi-Fi are enabled on your phone. Restart phone and unit. Check compatibility.
Touchscreen unresponsive.	System freeze, temporary software glitch.	Restart the unit (if possible). Perform a factory reset if the issue persists (note: this will erase data).

If the problem persists after trying these steps, please contact customer support.

SPECIFICATIONS

Detailed technical specifications for the Biorunn DUDUAUTO Android 13 Car Radio Stereo (DUDU7, 12GB RAM 256GB ROM):

Feature	Specification
Model Name	DUDU7
Operating System	Android 13 (DUDU OS 3.0)
Processor	UIS7870 (8-Core)
RAM	12GB
Memory Storage Capacity	256GB (UFS 3.1)
Screen Size	12.3 Inches
Display Type	2K QLED
Display Resolution	1920 x 1200
Touch Screen Type	Capacitive
Special Features	Touchscreen, BT, Wireless Car-play, Wireless Android Auto, DSP, AMP, FM/AM/RDS
Connectivity Technology	Wireless (4G LTE, 5G WIFI, Bluetooth)
GPS	Dual Band GPS (L1 L5 B1 B2a E1 E5a)
Voice Command	Touchscreen, Mouse, Keyboard, Buttons
Manufacturer	Shenzhen Rongnan International Electronics Co., Ltd.
ASIN	B0DLBF8XVP

	DUDU6			DUDU7			
RAM/ROM	6+64	8+128	8+256	6+64	8+128	12+256	12+512
CPU	8-Core UIS7862S Customized version A55 2.0GHz 12nm process			8-Core UIS7870 Customized version A76 2.7GHz 6nm process			
Memory type	emmc 5.1			UFS 3.1 Read data 1700M+			
GPS	3 mode L1 B1 E1			Dual Band 6 mode L1 L5 B1 B2a E1 E5a			
MIC	Condenser MIC			Digital noise cancelling MIC			
USB interface	USB 2.0*3			Type-C USB 3.2 Gen1*1 USB 2.0*3			
Power amplifier	TDA7850			TDA7808 Digital enhanced Class AB power amplifier			
DSP	AKM7738			AKM7739 Velvet audio technology			
Amp	2582*3			5532*3 Enhanced audio signal			
Android version	Android 10 API=29			Android 13 API=33			
car machine system	DUDU OS3.0						
Audio output	Fiber + coaxial RCA5.1 channel output						
BT chip	BT5.0 Qualcomm 3031 supports the aptx HD protocol						
Filter capacitance	10000µF						
Screen	9.5" / 10.36" / 11.5" : 2K 2000*1200 13" : 1920*1200 12.3" : 1920*720						
CP/AA	Support wired + wireless Car-play / Android AUTO						
Network	4G Lte external card slot + 5G WIFI						
Radio	TDA7708						
Voice Control (optional)	This feature requires the purchase of voice control software						
Supporting accessories (optional)	360° panoramic camera, DVR, front + rear view camera, TPMS, BT SWC, atmosphere light HUD head-up display, rear window LED screen, rear entertainment screen, thermometer, etc Note: Accessories are not included and are purchased separately.						

Support the following sizes of machines, you can choose according to your needs



The 12.3-inch screen comes in three different styles

Image: Comprehensive technical specifications for DUDU6 and DUDU7 models.

WARRANTY AND SUPPORT

Biorunn products are designed for reliability and performance. For any technical assistance or warranty inquiries, please contact the seller directly.

The seller, RongNan International, focuses on car multimedia players and offers support. If you have any questions, you can reach out to them. They aim to respond within 24 hours.

Important: If you encounter any issues, it is advised to contact support before returning the product, as 99.99% of problems can be resolved with assistance.

24 Hours Technical Support:

Step 1

In Stock

Quantity: 1

Add to Cart

Buy Now

Ships from Amazon

Sold by RongNan International

Returns

Payment

Step 2

About Seller

RongNan International: We have been focusing on Car multimedia player over 10 years, continue to develop different styles of car radio after listening to customers' preferences. If you are a car and travel lover, don't miss us.

Reminder: If you have any other questions, please feel free to reach us directly at [redacted], we will reply within 24 hours!

Kindly Advised: 99.99% problems can get a solution, please don't return the product before contact us, thanks!

Have a question for RongNan International?

Ask a question

Image: Information regarding 24-hour technical support from the seller.