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› MekedeTech DUDUAUTO DUDU7 Car Multimedia Head Unit User Manual

MekedeTech DUDU7

MekedeTech DUDUAUTO DUDU7 Car Multimedia Head Unit User Manual

Model: DUDU7-12-512-13

1. INTRODUCTION

Welcome to the user manual for your MekedeTech DUDUAUTO DUDU7 Car Multimedia Head Unit. This intelligent navigation system is designed to enhance your driving experience with its advanced features, including a high-resolution 2K touch screen, powerful Android 13 operating system, and comprehensive connectivity options. This manual provides essential information for setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

2. PACKAGE CONTENTS

Before beginning installation, please verify that all components listed below are present in your package.

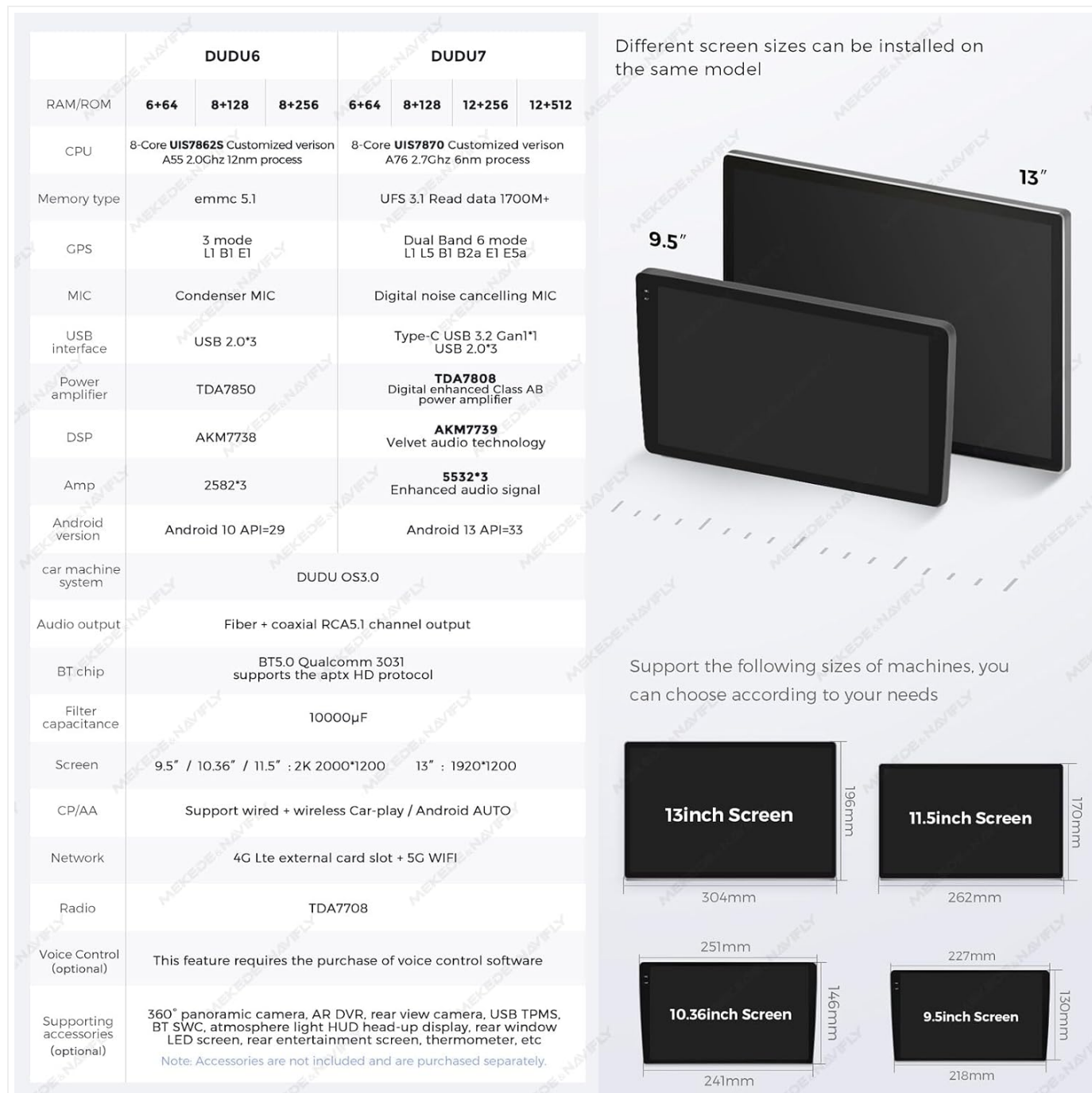


Figure 2.1: Overview of the MekedeTech DUDUAUTO DUDU7 package contents, including the main unit, various cables, and antennas.

- MekedeTech Universal DUDUAUTO DUDU7 Car Multimedia Head Unit Player
- Microphone (MIC)
- RCA Cable
- Reversing Camera Cable
- Audio Out Cable
- Fakra 4G Antenna
- Fakra GPS Antenna
- USB Plugs (x3)

3. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your DUDUAUTO DUDU7 head unit. It is highly recommended that installation be performed by a qualified professional.

3.1 Pre-Installation Considerations

- **Vehicle Compatibility:** Ensure your vehicle is compatible with a 13-inch single DIN head unit.
- **Additional Components:** For vehicle-specific installation, a compatible plate trim cover and CANBUS box may be required (sold separately).
- **Power Disconnection:** Always disconnect the vehicle's battery before starting any electrical work.

3.2 Wiring Connections

Connect the provided cables to their respective ports on the head unit and your vehicle's wiring harness. Refer to your vehicle's specific wiring diagram for accurate connections.

- **Power Harness:** Connect the main power harness to the vehicle's power, ground, and accessory wires.
- **RCA Cables:** Connect for audio output to external amplifiers or speakers. The unit supports Optical + Coaxial, RCA 5.1 Channel Outputs.
- **USB Ports:** Utilize the USB 3.2 GEN1 (Type-C) and three USB 2.0 ports for data transfer and device charging.
- **Antennas:** Connect the Fakra 4G Antenna and Fakra GPS Antenna for optimal signal reception.
- **Microphone:** Connect the Digital Noise Cancellation Microphone for clear voice communication.
- **Reversing Camera:** Connect the reversing camera cable. The unit has a built-in 360° backup camera chip, but a 360 panoramic image system may require an additional 360 chip and extra payment.

3.3 Initial Power-Up

After all connections are secure, reconnect the vehicle's battery. The unit should power on automatically or when the ignition is turned on. Follow the on-screen prompts for initial setup, including language selection and network configuration.

4. OPERATING INSTRUCTIONS

Your DUDUAUTO DUDU7 head unit runs on Android 13, offering a familiar and intuitive user interface.

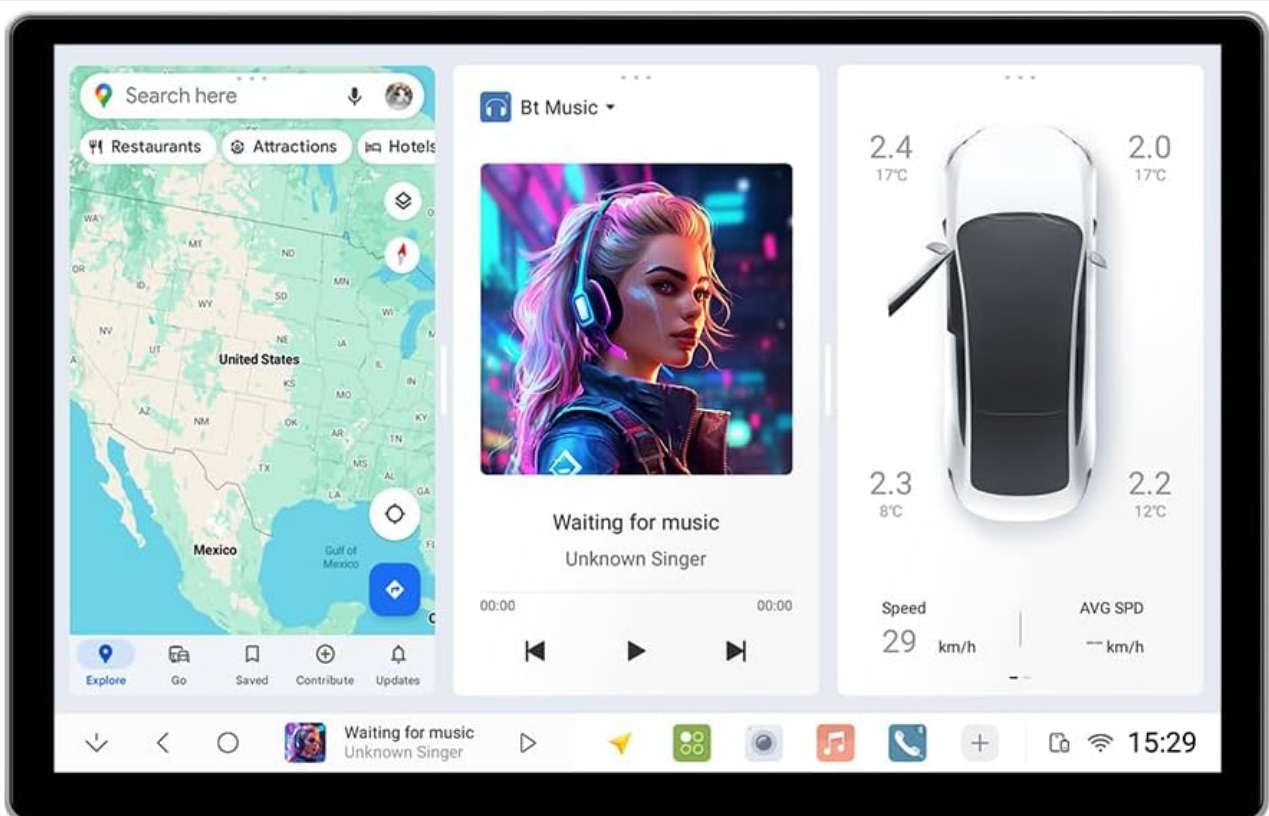


Figure 4.1: The DUDUAUTO DUDU7 display showcasing its multi-tasking capabilities with navigation, media, and vehicle data.

4.1 Touch Screen Interface

The 13-inch 2K (2000x1200) touch screen provides a responsive and clear display. Navigate through menus, select applications, and control functions with simple taps and swipes.

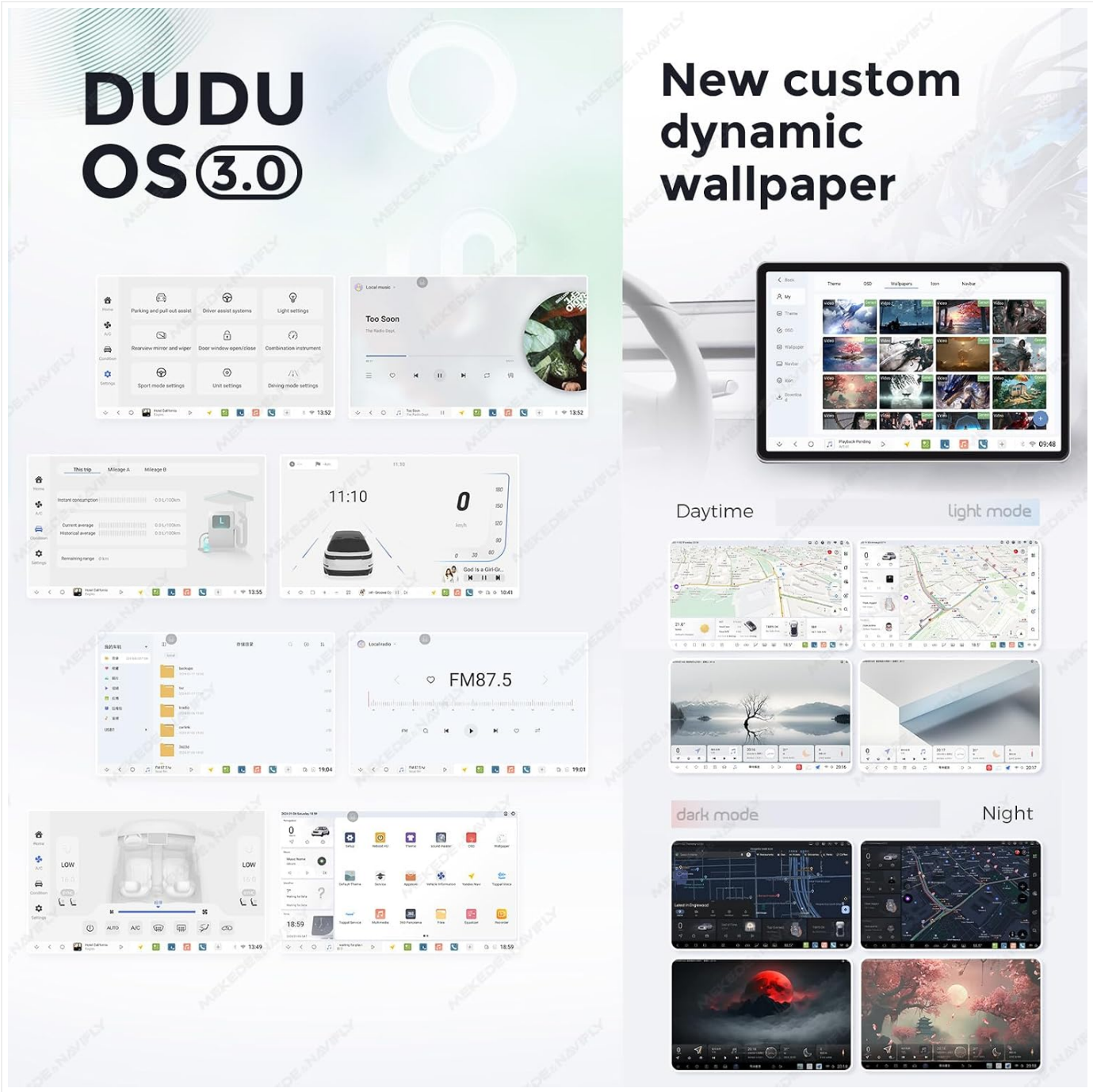


Figure 4.2: Custom dynamic wallpaper options available on the DUDUAUTO DUDU7, allowing personalization of the user interface.

4.2 Wireless & Wired CarPlay / Android Auto

Connect your smartphone for seamless integration.

- **Wireless Connection:** Enable Bluetooth and Wi-Fi on your phone and the head unit. Follow the on-screen prompts to pair and connect for automatic CarPlay or Android Auto access.
- **Wired Connection:** Use a compatible USB cable to connect your phone to one of the head unit's USB ports.
- Once connected, you can access navigation, make calls, stream music, and send messages directly from the head unit's display.

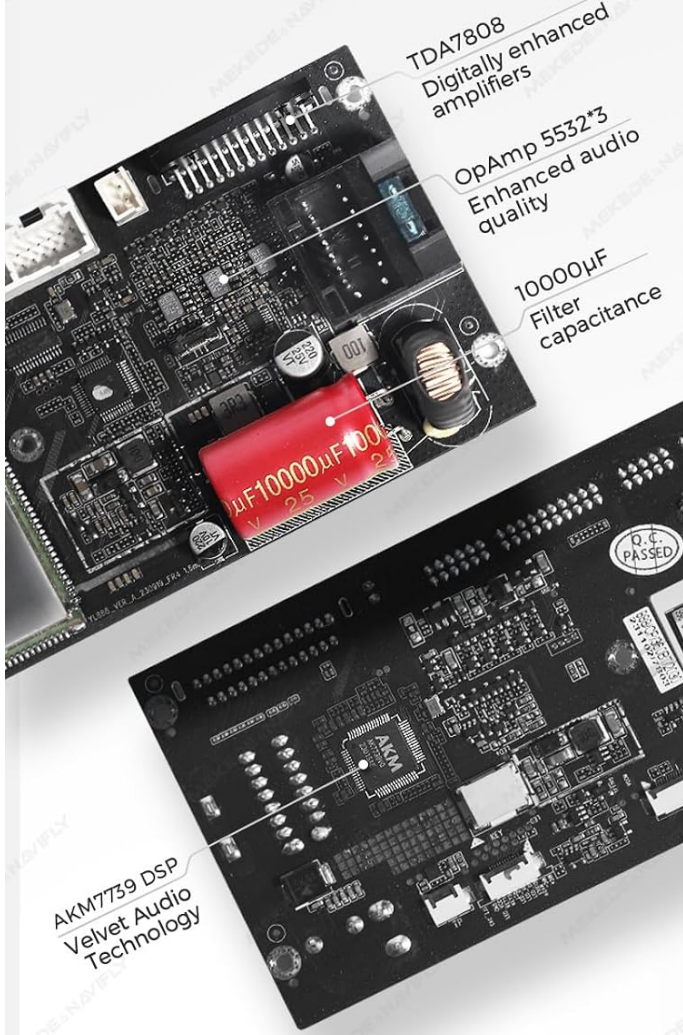
4.3 GPS Navigation

The unit features a Dual Band 6-mode GPS with L1+L5 dual-frequency technology for precise positioning.

- Open your preferred navigation application (e.g., Google Maps).
- Enter your destination and follow the on-screen directions.
- The system provides lane-level navigation precision for enhanced guidance.

Choosing reputation audio chip

in an industry-wide



TDA7808
Digitally enhanced
amplifiers

OpAmp 5532*3
Enhanced audio
quality

10000µF
Filter
capacitance

AKM7739 DSP
Velvet Audio
Technology

AKM7739 DSP Velvet Audio Technology

Support "VELVET SOUND" +DTS5.1 panoramic sound+ sound correction system, reproduces a natural, comfortable, sense of presence acoustic experience.



VELVET SOUND

VELVET SOUND - AKM advanced audio processing technology, based on the original sound reproduction product concept, explores the limits of audio technology, and presents all sound details without reservation, creating a "like, immersive" sound world.

Figure 4.3: Dual-band GPS technology ensures accurate and fast satellite acquisition for reliable navigation.

4.4 Bluetooth Connectivity

Equipped with a Qualcomm 3031 Bluetooth chip (BT5.0) supporting aptX HD protocol for high-quality audio.

- Go to the Bluetooth settings on the head unit.
- Enable Bluetooth on your device and search for the head unit.
- Pair the devices. Once connected, you can stream music and make hands-free calls.
- The Digital Noise Cancellation Microphone ensures clear call quality even at high speeds.

4.5 Audio Features

The unit features a TDA7808 Digital AB type Power Amplifier and AKM7739 Velvet Audio Technology DSP for superior sound.

- Adjust audio settings via the DSP menu to customize sound profiles.
- Utilize the Optical + Coaxial, RCA 5.1 Channel Outputs for advanced audio setups.



Figure 4.4: Internal audio components, including the TDA7808 amplifier and AKM7739 DSP, designed for high-fidelity sound.

4.6 360 Panoramic Image System

The head unit supports a 360 panoramic image system, which requires an additional 360 chip and extra payment for full functionality. This system provides a comprehensive view around your vehicle for enhanced safety during parking and maneuvering.

5. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your MekedeTech DUDUAUTO DUDU7 head unit, follow these

maintenance guidelines:

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the touch screen. 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 system updates through the unit's settings menu. Keeping the software updated ensures access to the latest features, performance improvements, and security patches.
- **Temperature Control:** Avoid exposing the unit to extreme temperatures for prolonged periods. While designed for automotive use, excessive heat or cold can affect performance and lifespan.
- **Ventilation:** Ensure the unit's ventilation areas are not obstructed to prevent overheating. The internal fan will activate when necessary to maintain optimal operating temperature.
- **Connection Integrity:** Occasionally check all connected cables to ensure they are secure and free from damage. Loose connections can lead to intermittent issues.

6. TROUBLESHOOTING

If you encounter issues with your DUDUAUTO DUDU7 head unit, refer to the following common problems and their solutions:

Problem	Possible Cause	Solution
Unit does not power on.	Loose power connection, blown fuse, vehicle battery issue.	Check power cables and connections. Inspect vehicle fuses. Ensure vehicle battery is charged.
No sound from speakers.	Incorrect audio wiring, volume too low, mute activated, amplifier issue.	Verify speaker wiring. Increase volume. Check mute settings. Test external amplifier if used.
GPS signal is weak or inaccurate.	GPS antenna obstructed or improperly installed, environmental interference.	Ensure GPS antenna has a clear view of the sky. Check antenna connection. Try moving the vehicle to an open area.
Bluetooth connection issues.	Device not paired, Bluetooth disabled, interference.	Ensure Bluetooth is enabled on both devices. Re-pair the devices. Move closer to the unit.
Touch screen unresponsive.	Software glitch, screen damage.	Restart the head unit. If issue persists, contact customer support.

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

7. SPECIFICATIONS

Below are the detailed technical specifications for the MekedeTech DUDUAUTO DUDU7 head unit:

Feature	Specification
Operation System	Android 13
CPU	8 Core UIS7870 Customized version A76 2.7Ghz 6nm processor
Memory	12GB RAM, 512GB ROM (UFS 3.1)
Display	13 inch 2K Touch Screen (2000x1200 resolution)

Feature	Specification
GPS	Dual Band 6 mode L1 L5 B1 B2a E1 E5a
Microphone	Digital Noise Cancellation Microphone
USB Ports	USB 3.2 GEN1*1 (TYPE-C), USB2.0*3
Power Amplifier	TDA7808 Digital AB type
DSP	AKM7739 Velvet Audio Technology
Bluetooth Chip	Qualcomm 3031 (Supports aptX HD protocol, BT5.0)
Audio Output	Optical + Coaxial, RCA 5.1 Channel Outputs
WiFi Type	802.11a/b/g/n/ac Support 5G WIFI
Radio IC	TDA7708
Work Voltage	9V~16V
CarPlay/Android Auto	Support Wired and Wireless
360 Panorama Support	Yes (requires additional 360 chip and payment)

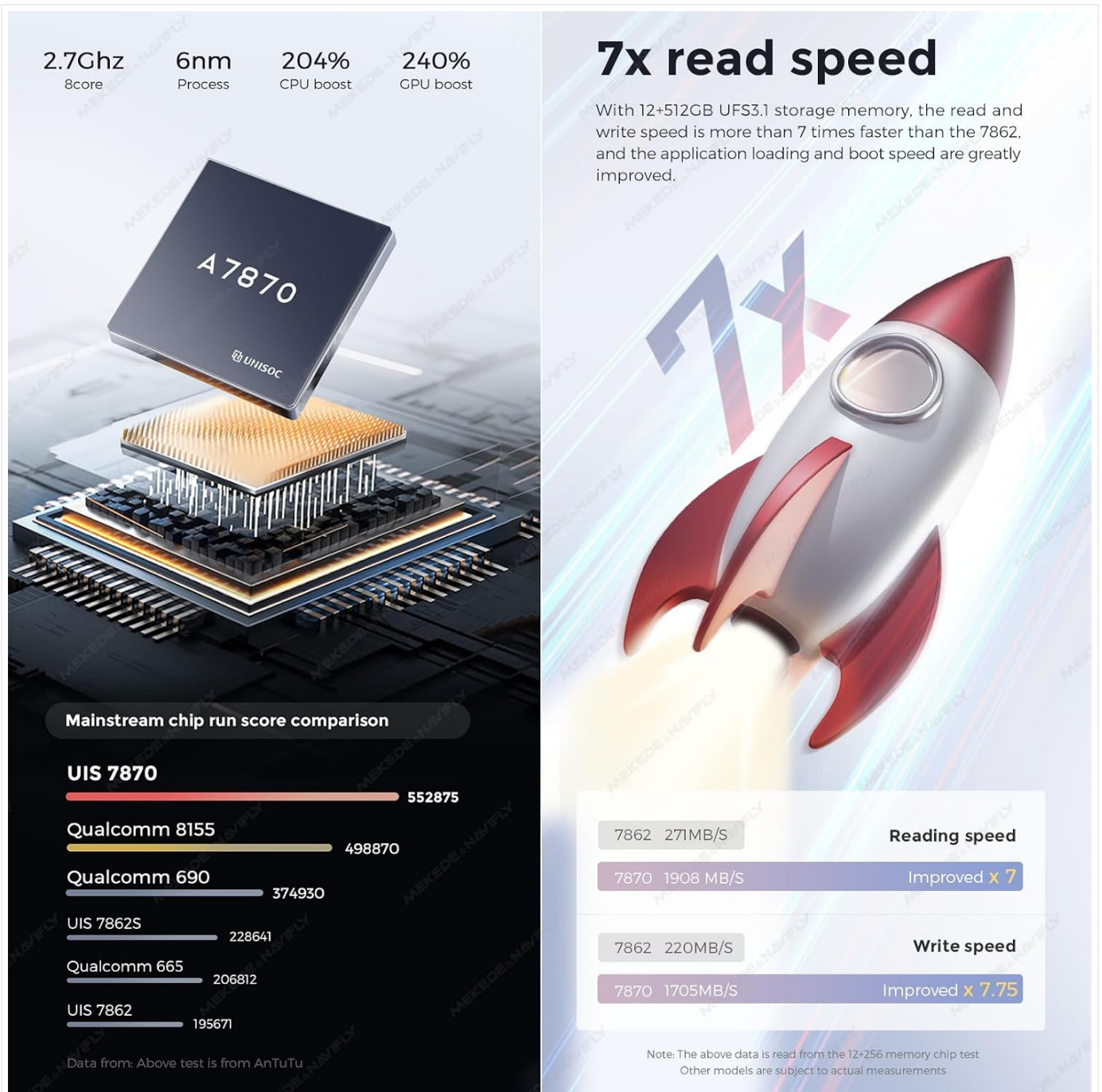


Figure 7.1: Detailed comparison of DUDU6 and DUDU7 specifications, showing the advanced features of the DUDU7 model.

Package Contents



Machine



MIC



RCA Cable



Reversing camera



Audio Out



Fakra 4G Antenna



Fakra GPS Antenna



USB Plug x3

Figure 7.2: The Unisoc UIS7870 processor and its performance benefits, including significantly faster read and write speeds.

8. WARRANTY AND SUPPORT

MekedeTech is committed to providing high-quality products and excellent customer service.

8.1 Warranty Information

Please refer to the warranty card included with your product or visit the official MekedeTech website for detailed warranty terms and conditions. Keep your proof of purchase for any warranty claims.

8.2 Customer Support

For technical assistance, troubleshooting, or any inquiries regarding your DUDUAUTO DUDU7 head unit, please contact MekedeTech customer support. Our support team is dedicated to providing prompt and helpful solutions.

- **Online Support:** Visit the MekedeTech official website for FAQs, support articles, and contact forms.
- **Email Support:** Refer to your product packaging or the official website for the customer support email address.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

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

Submit question