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› MekedeTech DUDUAUTO DUDU7 Car Stereo Head Unit User Manual

## MekedeTech DUDU7

# MekedeTech DUDUAUTO DUDU7 Car Stereo Head Unit User Manual

Model: DUDU7-12-256

## 1. INTRODUCTION AND OVERVIEW

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This manual provides essential information for the installation, operation, and maintenance of your MekedeTech DUDUAUTO DUDU7 Android Rotatable Touch Screen Double Din Car Stereo Head Unit. This advanced multimedia system features a 13-inch high-resolution display, Android 13 operating system, 12GB RAM, 256GB ROM, and a powerful Unisoc UIS7870 chipset. It includes built-in Wireless CarPlay and Android Auto, dual-band GPS, and a digital noise-canceling microphone for an enhanced in-car experience.



Image: The DUDUAUTO DUDU7 car stereo head unit shown from various angles, highlighting its rotatable screen design.

## 2. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. It is recommended that installation be performed by a qualified professional.

### 2.1 Package Contents

Verify that all components are present before beginning installation.

# DUDU OS 3.0

## New custom dynamic wallpaper

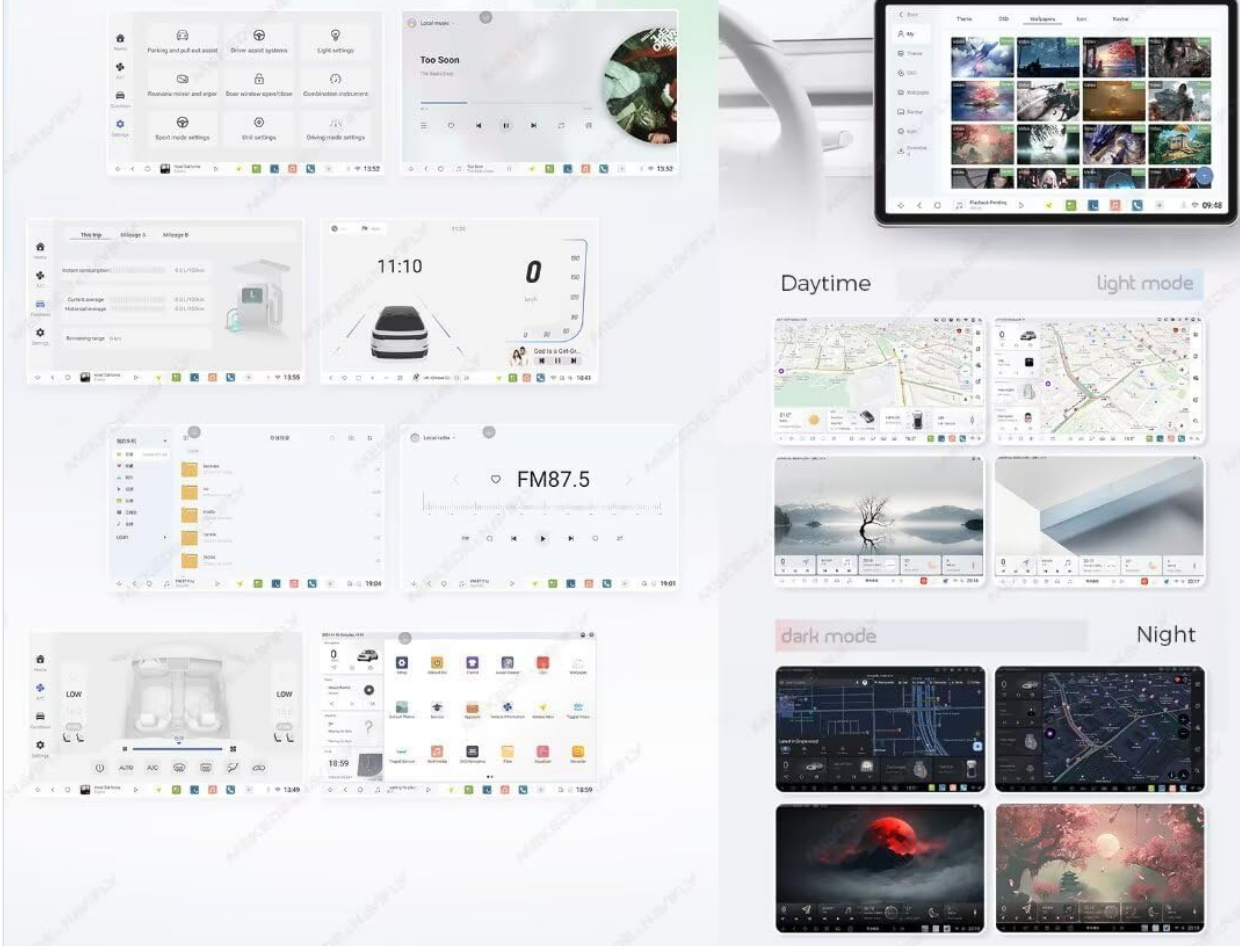


Image: A visual representation of the items included in the DUDUAUTO DUDU7 package, such as the head unit, power cable, metal brackets, disassembly tools, frame, microphone, RCA cable, reversing camera cable, USB plugs, Fakra GPS antenna, and 4G antenna.

## 2.2 Pre-Installation Considerations

- For vehicle-specific installation, a compatible plate trim cover and CANBUS box may be required (sold separately).
- Ensure the vehicle's power is disconnected before starting installation.
- Identify the correct wiring harness for your vehicle.

## 2.3 Wiring and Mounting

Connect the power cable, RCA cables, USB cables, GPS antenna, and 4G antenna to the corresponding ports on the head unit. Secure the head unit in the vehicle's dashboard using the provided metal brackets and frame. Ensure all connections are firm and properly insulated.

# Package Contents



Head unit \* 1



Power Cable



Metal Brackets \* 2



Disassembly Tools



9 / 10inch Frame

## DUDU6 DUDU7



MIC



RCA Cable



Reversing camera



USB Plug \* 3



Fakra 4G Antenna



Fakra GPS Antenna  
(For DUDU7 only)



Fakra GPS Antenna  
(For DUDU6 only)

## DUDU4 DUDU5



MIC



RCA Cable



Reversing camera



USB Plug \* 3  
(For DUDU5 only)



USB Plug \* 2  
(For DUDU4 only)



4G Antenna



GPS Antenna

## DUDU3



MIC



RCA Cable



Reversing camera



USB Plug \* 2



4G Antenna



GPS Antenna

Image: The rear view of the DUDUAUTO DUDU7 head unit, displaying various connection ports for power, audio, USB, and antennas.

## 3. OPERATING INSTRUCTIONS

### 3.1 Power On/Off and Initial Setup

After installation, reconnect the vehicle's power. The unit will power on automatically or by pressing the power button. Follow the on-screen prompts for initial setup, including language, time zone, and network configuration.

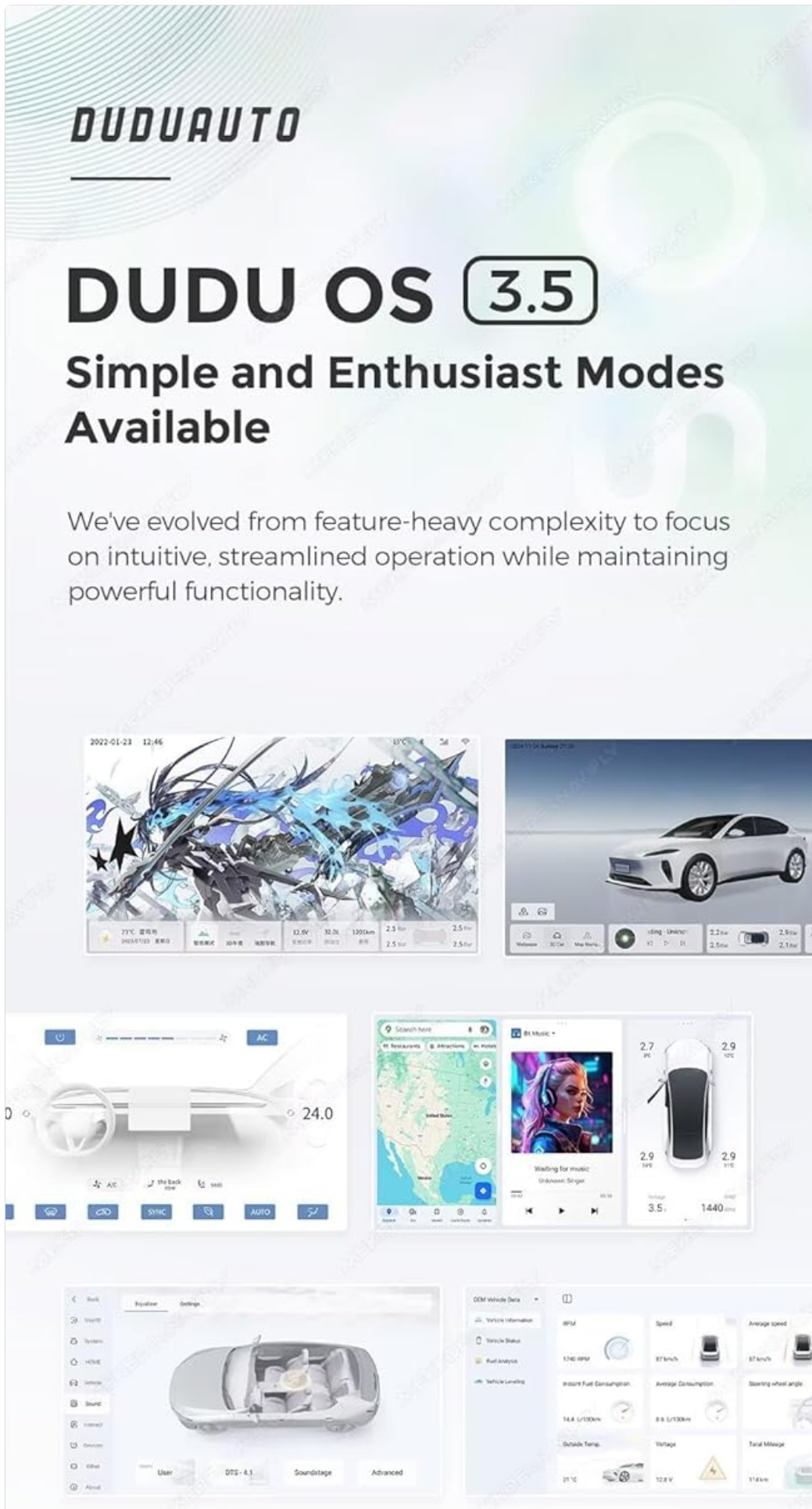
### 3.2 DUDU OS Interface

The DUDU OS offers both Simple and Enthusiast Modes. Navigate the interface using the 13-inch rotatable touchscreen. Customize dynamic wallpapers and access various applications.



RAM/ROM	<b>4+32GB</b>	<b>4+64GB</b>	<b>6+64GB 8+128GB 8+256GB</b>	<b>6+64GB 8+128GB</b> <b>12+256GB 12+512GB</b>
CPU	8-Core <b>UIS8581A</b>	8-Core <b>UIS7862</b>	8-Core <b>UIS7862S</b> Customized version A55 2.0Ghz 12nm process	8-Core <b>UIS7870</b> 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	TDA7838	TDA7851	TDA7850	<b>TDA7808</b> Digital enhanced Class AB power amplifier
DSP	AK7604	AK7604	AKM7738	<b>AKM7739</b> Velvet audio technology
Amp	/	/	2582*3	<b>5532*3</b> Enhanced audio signal
Android version	Android 10 API=29			Android 13 API=33
car machine system	DUDU OS			
Audio output	RCA2.1 channel output	Fiber + coaxial RCA2.1 channel output	Fiber + coaxial RCA5.1 channel output	
BT chip	BT5.0		BT5.0 Qualcomm 3031 supports the aptx HD protocol	
Filter capacitance	6800μF		10000μF	
Screen	In-cell Screen		9.5" / 10.36" / 11.5" : 2K 2000*1200 13" : 1920*1200	
CP/AA	Support wired + wireless Car-play / Android AUTO			
Network	4G Lte external card slot + WIFI			
Radio	TDA4755		TDA7708	
Voice Control	DUDU4 / 5 requires the purchase of voice control software to be supported.		Support voice control function	
Supporting accessories (optional)	DVR, front + rear view camera, TPMS, BT SWC, etc.  Note: Accessories are not included and are purchased separately. For more customization needs, please contact mekede&navify.			

Image: Screenshots illustrating the DUDU OS 3.5 user interface, showcasing various applications and display layouts.



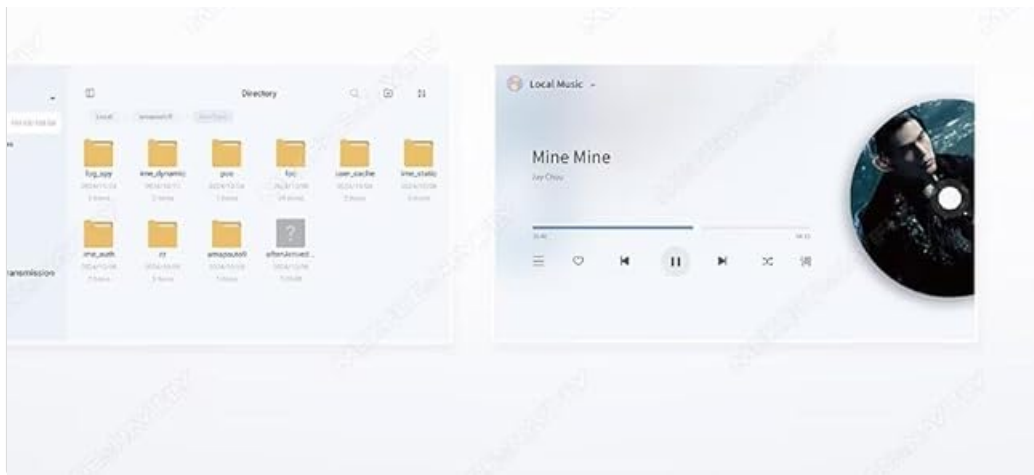


Image: Examples of the DUDU OS 3.0 interface, including options for custom dynamic wallpapers and different display modes (daytime, light, dark, night).

### 3.3 Wireless CarPlay & Android Auto

Connect your iPhone or Android smartphone wirelessly for seamless integration. Access navigation, music, calls, and messages directly from the head unit's display.

- **For CarPlay:** Ensure Bluetooth and Wi-Fi are enabled on your iPhone. Pair your iPhone with the head unit via Bluetooth, then follow the prompts to activate Wireless CarPlay.
- **For Android Auto:** Ensure Bluetooth and Wi-Fi are enabled on your Android phone. Pair your phone with the head unit via Bluetooth, then follow the prompts to activate Wireless Android Auto.

### 3.4 GPS Navigation

The unit features precision dual-band GPS navigation with L1+L5 dual-frequency technology for fast satellite acquisition and accurate positioning. Use pre-installed navigation apps or download others from the app store.

### 3.5 Bluetooth Connectivity

Equipped with a Qualcomm 3031 Bluetooth 5.0 chip, the unit provides stable and high-quality audio streaming and hands-free calling. Pair your device through the Bluetooth settings menu.

### 3.6 Audio Features

The system includes an AKM7739 DSP with Velvet Audio Technology and TDA7808 digital AB type power amplifier for enhanced sound quality. Adjust audio settings, equalizer, and surround sound configurations through the audio menu.

## 4. MAINTENANCE

### 4.1 Cleaning

Use a soft, dry cloth to clean the touchscreen and exterior. Avoid abrasive cleaners or solvents that could damage the display or finish.

### 4.2 Software Updates

Periodically check for software updates through the system settings to ensure optimal performance and access to new features. Connect the unit to a Wi-Fi network to download updates.

### 4.3 General Care

Avoid exposing the unit to extreme temperatures or direct sunlight for prolonged periods. Ensure proper ventilation around the unit to prevent overheating.

## 5. TROUBLESHOOTING

If you encounter issues, refer to the following common solutions:

- **No Power:** Check all power connections and the vehicle's fuse box. Ensure the ignition is on.
- **No Sound:** Verify speaker connections. Check audio settings for mute or low volume. Ensure the correct audio source is selected.
- **Touchscreen Unresponsive:** Restart the unit. If the issue persists, perform a factory reset (note: this will erase all user data).
- **GPS Signal Loss:** Ensure the GPS antenna is properly installed and has a clear view of the sky.
- **CarPlay/Android Auto Not Connecting:** Ensure Bluetooth and Wi-Fi are enabled on both the phone and the head unit. Try forgetting the device and re-pairing. Update phone OS and head unit software.
- **System Slow/Lagging:** Close unnecessary background applications. Clear cache or perform a system restart.

For persistent issues, contact customer support.

## 6. PRODUCT SPECIFICATIONS

Feature	Specification
Model	DUDU7-12-256
Operation System	Android 13
CPU	8 Core UIS7870 (A76 2.7Ghz, 6nm processor)
Memory (RAM/ROM)	12GB RAM / 256GB ROM (UFS 3.1)
Display	13 inch Rotatable Touch Screen, 1920x1200 Resolution
GPS	Dual Band 6 mode L1 L5 B1 B2a E1 E5a
Microphone	Digital Noise Cancellation Microphone
USB Interface	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

Feature	Specification
CarPlay/Android Auto	Wired and Wireless support
360 Panorama	Includes 360 panoramic chip default
Output Power	50 Watts
Surround Sound Channel	5.1
Control Method	Touch
Wireless Technology	4G

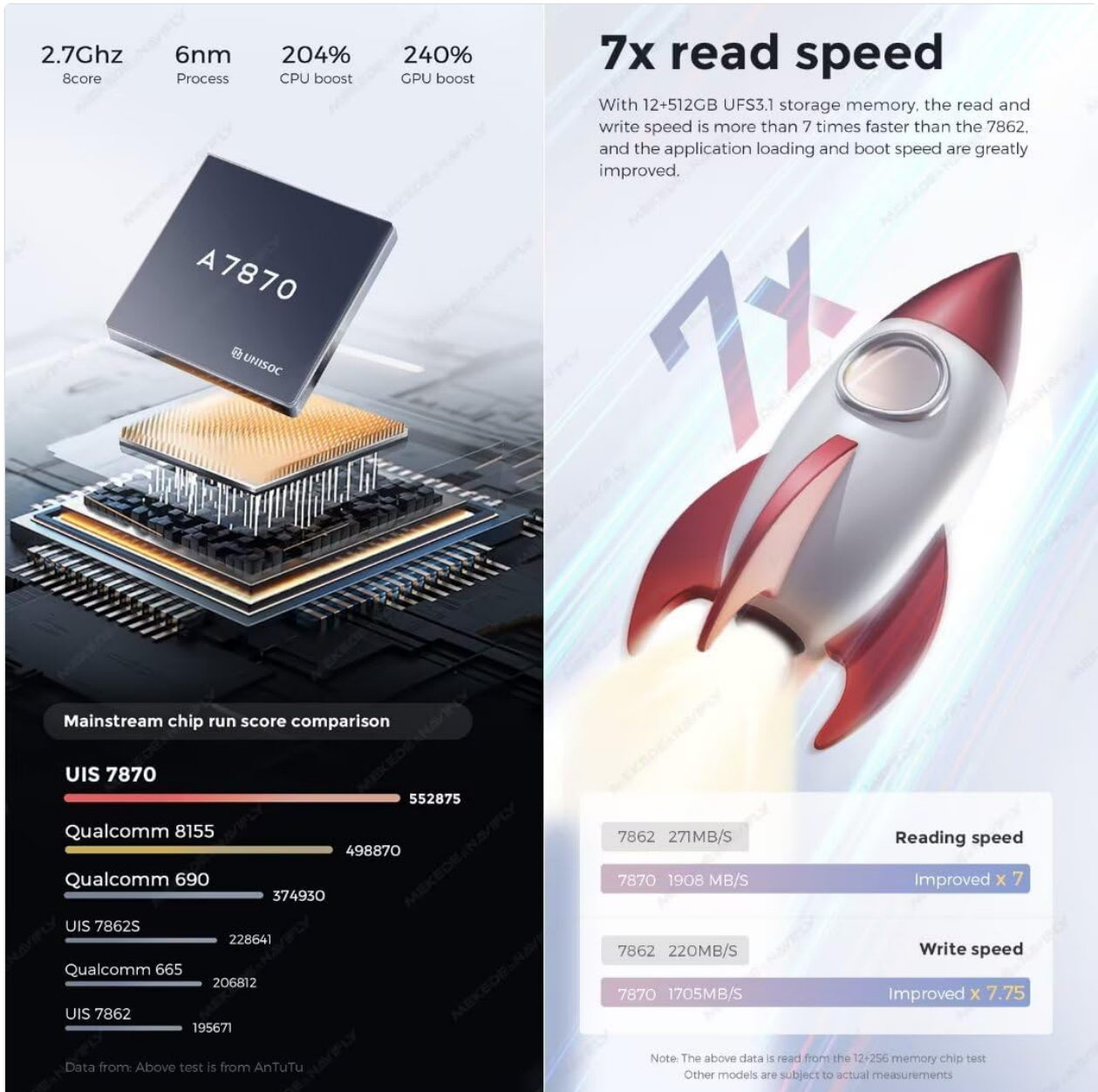
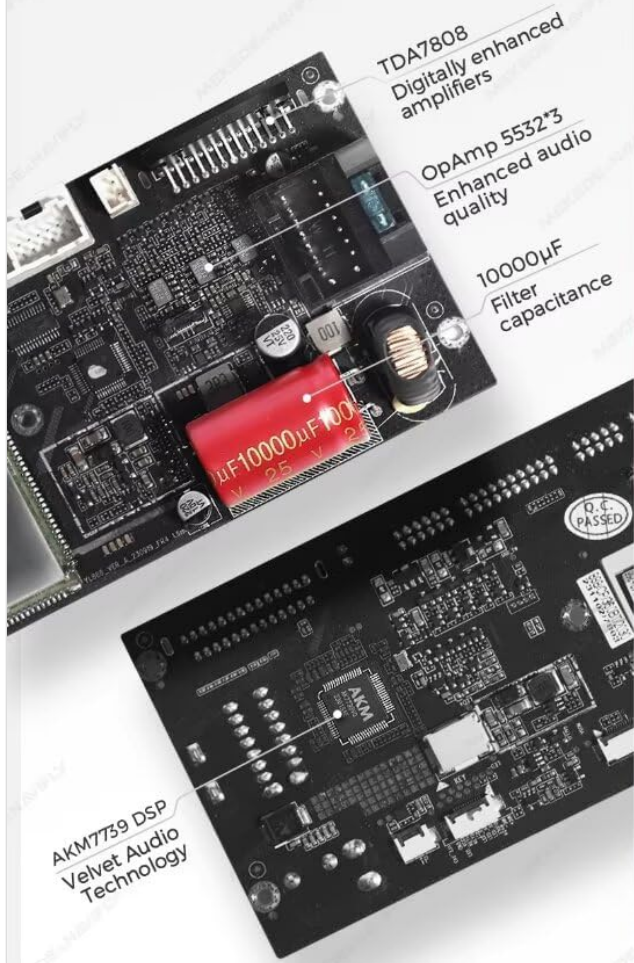


Image: A comparison chart detailing the performance of the UIS7870 CPU against other chipsets, highlighting its read and write speeds.

## Choosing reputation audio chip

in an industry-wide



## 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.

Image: Detailed view of the AKM7739 DSP and TDA7808 amplifier chips, emphasizing the Velvet Audio Technology for enhanced sound quality.

## 7. WARRANTY INFORMATION

The MekedeTech DUDUAUTO DUDU7 Car Stereo Head Unit comes with a **1 Year Warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by improper installation, misuse, accidents, or unauthorized modifications.

## 8. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or warranty inquiries, please contact MekedeTech customer support.

**Manufacturer:** Shenzhen Mekede Technology Co.,Ltd

**Seller:** [Mekedetech](#)

Please have your product model number (DUDU7) and purchase details ready when contacting support.

