MekedeTech DUDU7

MekedeTech DUDUAUTO DUDU7 Car Stereo User Manual

Model: DUDU7

Introduction

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your MekedeTech DUDUAUTO DUDU7 Car Stereo. This advanced multimedia head unit is designed for select VW models, including Passat, Jetta, Tiguan, Golf MK5, MK6, T5, EOS, and Polo, featuring a 9.5-inch 2K touch screen, Android 13 operating system, and integrated wireless connectivity options.
Please read this manual thoroughly before using the product to ensure proper installation and optimal performance.

Setup and Installation

The DUDUAUTO DUDU7 is designed as a dash kit upgrade for compatible VW vehicles. Due to the complexity of automotive electrical systems and dashboard integration, professional installation is highly recommended. Ensure the vehicle's power is disconnected before beginning any installation work.

Component Overview

Familiarize yourself with the various ports and connections on the rear of the DUDU7 unit.



Image Description: This image displays the rear panel of the DUDUAUTO DUDU7 car stereo, highlighting various connection ports. Key labeled ports include Protocol Serial Use with Can-bus (C), 4Pin USB (E), 6Pin USB (D), Reverse video cable (F), RCA Cable (A) with 4G Card Slot, 360° panoramic device (B), Radio Antenna (8), WIFI (7), GPS Antenna (6), 4G Antenna (4), Cooling fan (8), Type-C (8), Audio Out (Coaxial/Optical), and Power Cable (G). A separate section below shows individual cables for MIC, 4G Antenna, GPS Antenna, 6Pin USB, 4Pin USB, RCA Cable, and Reversing camera.

Installation Process (General Steps)

1. **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before starting installation.
2. **Remove Old Head Unit:** Carefully remove the existing car stereo and dashboard trim.
3. **Connect Wiring Harness:** Connect the DUDU7's wiring harness to the vehicle's factory harness. Ensure all connections for power, speakers, and accessories (e.g., CAN-bus, USB, GPS, 4G antennas) are secure.
4. **Mount the Unit:** Securely mount the DUDU7 into the dashboard opening using the provided brackets.
5. **Test Functionality:** Before fully reassembling the dashboard, reconnect the battery and perform a basic test of the unit's functions (power, audio, touch screen, radio, GPS).
6. **Reassemble Dashboard:** Once confirmed operational, carefully reassemble the dashboard trim.



Image Description: This image shows a side-by-side comparison of a car's dashboard before and after the installation of the DUDUAUTO DUDU7 car stereo. The "Before installation" panel shows a standard factory car radio. The "After installation" panel displays the DUDU7 unit seamlessly integrated into the dashboard, showcasing its large touch screen and modern interface.

Operating Instructions

Basic Operation

The DUDU7 operates on Android 13 and features a responsive 9.5-inch 2K touch screen. Navigate through menus and applications by tapping, swiping, and pinching gestures, similar to a smartphone or tablet.



Image Description: This image displays the main interface of the MekedeTech DUDU7 car stereo. The screen shows a split view: on the left, a vehicle status display with tire pressure and speed, and on the right, a navigation map. Below, media playback controls are visible, indicating music is playing. The overall interface is modern and user-friendly.

Wireless CarPlay & Android Auto

Connect your smartphone wirelessly for seamless integration of navigation, music, calls, and messaging.

- **For iPhone (CarPlay):** Ensure Bluetooth and Wi-Fi are enabled on your iPhone. On the DUDU7, open the CarPlay application and follow the on-screen prompts to pair your device.
- **For Android (Android Auto):** Ensure Bluetooth and Wi-Fi are enabled on your Android phone. Open the Android Auto application on the DUDU7 and follow the pairing instructions.

Bluetooth 5.0 Connectivity

The DUDU7 features a Qualcomm 3031 Bluetooth 5.0 chip for stable and high-quality audio streaming and hands-free calling.

1. Go to the Bluetooth settings on the DUDU7.
2. Enable Bluetooth on your mobile device and search for available devices.
3. Select "DUDU7" from the list on your phone and confirm the pairing code.
4. Once paired, you can stream audio and make/receive calls through the unit. The digital noise cancellation microphone ensures clear voice transmission.

4G LTE & Wi-Fi

For internet access, you can either insert a 4G SIM card into the designated slot (refer to the Component Overview image for location) or connect to an available Wi-Fi network.

- **4G SIM Card:** Insert a compatible 4G SIM card into the slot. The unit will automatically detect and connect to the mobile network.
- **Wi-Fi Connection:** Go to Settings > Network & Internet > Wi-Fi. Select your desired network and enter the password if required.

Audio Settings and DSP

The DUDU7 incorporates AKM7739 Velvet Audio Technology DSP and a TDA7808 Digital AB type power amplifier for enhanced sound quality. Access the audio settings menu to customize equalizer settings, balance, fader, and subwoofer output. The unit supports Optical + Coaxial and RCA 5.1 Channel Outputs for advanced audio setups.

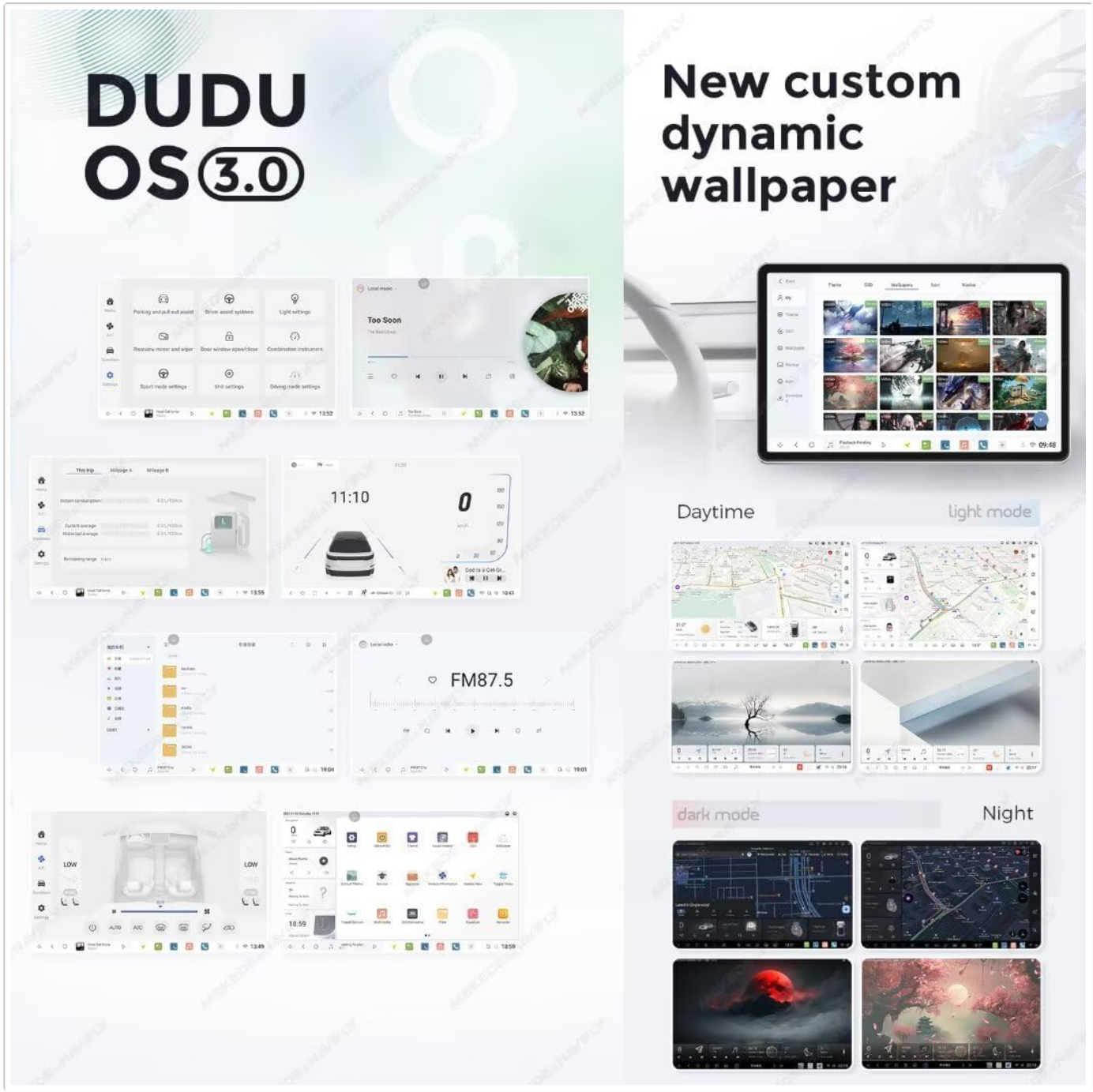


Image Description: This image illustrates the advanced audio components within the DUDUAUTO DUDU7. It highlights the TDA7808 Digitally enhanced AB amplifiers and the AKM7739 DSP Velvet Audio Technology, emphasizing enhanced audio quality and a 10000µF filter capacitance. The right side of the image features a graphic representing immersive sound experience, detailing the support for

"VELVET SOUND" and DTS 5.1 panoramic sound.

DUDU OS Features

The DUDU OS offers both Simple and Enthusiast modes, focusing on intuitive operation while providing powerful functionality. You can also customize your experience with new dynamic wallpapers.

	DUDU4	DUDU5	DUDU6	DUDU7
RAM/ROM	**4+32GB**	**4+64GB**	**6+64GB** **8+128GB** **8+256GB**	**6+64GB** **12+256GB** **8+128GB** **12+512GB**
CPU	8-Core **UIS8581A**	8-Core **UIS7862**	8-Core **UIS7862S** Customized verison A55 2.0Ghz 12nm process	8-Core **UIS7870** Customized verison 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	**TDA7808** Digital enhanced Class AB power amplifier
DSP	AK7604	AK7604	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 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&navifly.	

Image Description: This image showcases the DUDU OS 3.5 interface, demonstrating its "Simple and Enthusiast Modes." Multiple screenshots are arranged to display various functionalities, including a customizable home screen, vehicle information display, navigation, media player, and file management, all designed for intuitive and streamlined operation.

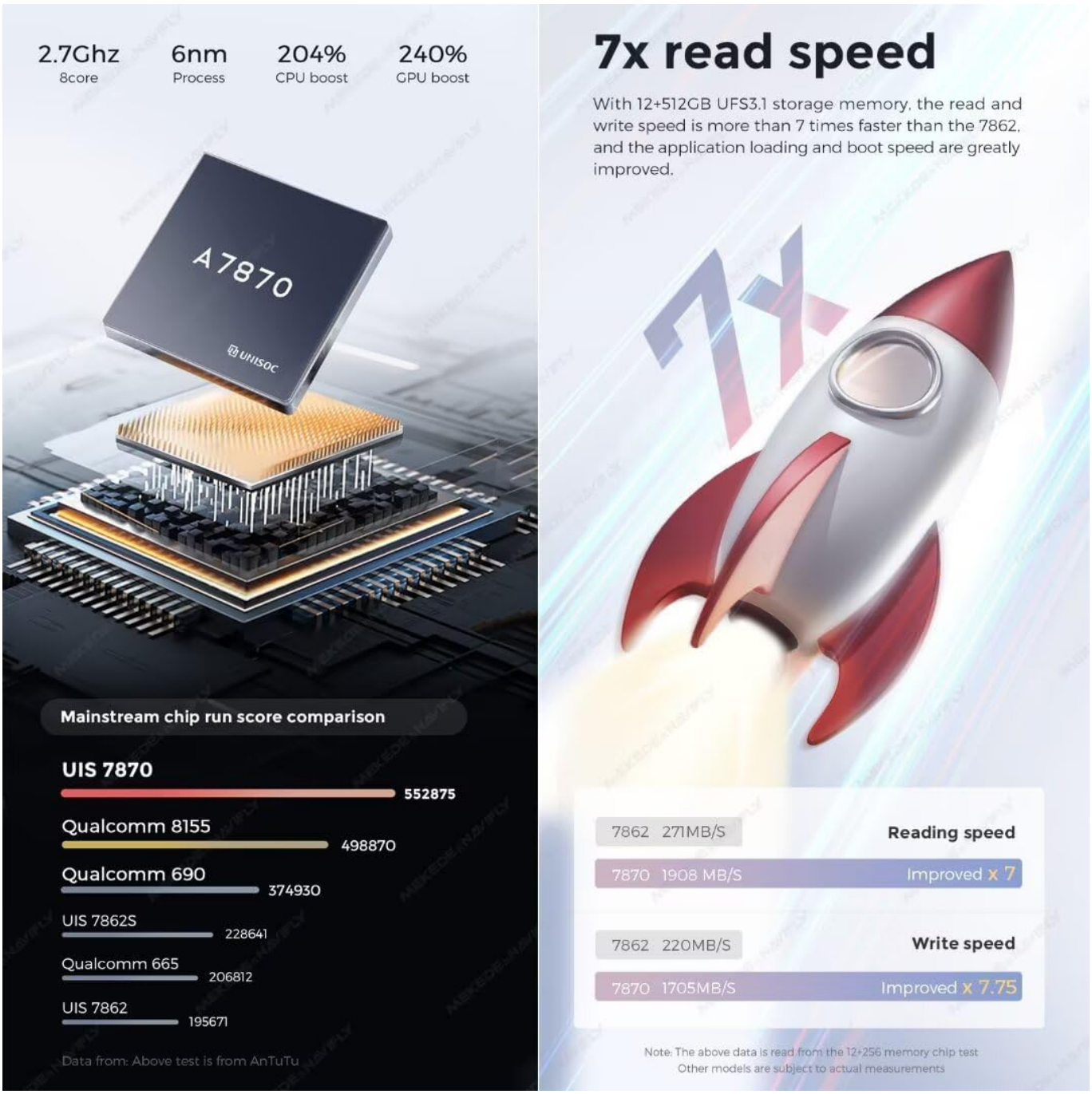


Image Description: This image presents the DUDU OS 3.0 interface, highlighting its "New custom dynamic wallpaper" feature. It displays various screen layouts, including settings menus, vehicle data, radio interface, and different dynamic wallpaper options for both daytime (light mode) and nighttime (dark mode) themes, offering personalization and visual appeal.

Maintenance

- **Screen Cleaning:** Use a soft, lint-free cloth specifically designed for electronic screens. Dampen the cloth slightly with water or a screen-safe cleaner. Avoid harsh chemicals or abrasive materials.
- **Software Updates:** Periodically check for software updates through the unit's settings menu or the manufacturer's website. Keeping the software updated ensures optimal performance and access to new features.
- **Environmental Care:** Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.
- **General Cleaning:** Use a soft, dry cloth to wipe down the unit's exterior and buttons to prevent dust buildup.

Troubleshooting

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 from speakers.	Speaker wires disconnected, volume too low, audio settings incorrect.	Verify speaker wire connections. Increase volume. Check audio output settings (e.g., balance, fader, source).
Bluetooth/CarPlay/Android Auto not connecting.	Bluetooth/Wi-Fi off on phone or unit, incorrect pairing process, interference.	Ensure Bluetooth/Wi-Fi is active on both devices. Re-attempt pairing. Clear previous pairings and try again.
Touch screen unresponsive.	Software glitch, temporary freeze.	Perform a soft reset (refer to unit's specific reset procedure, usually a small reset button or holding power button). If issue persists, contact support.
GPS signal weak or inaccurate.	GPS antenna obstruction, poor satellite reception.	Ensure GPS antenna is properly installed and has a clear view of the sky. Move to an open area.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please refer to the Support section for further assistance.

SPECIFICATIONS

Below are the detailed technical specifications for the MekedeTech DUDUAUTO DUDU7 Car Stereo.



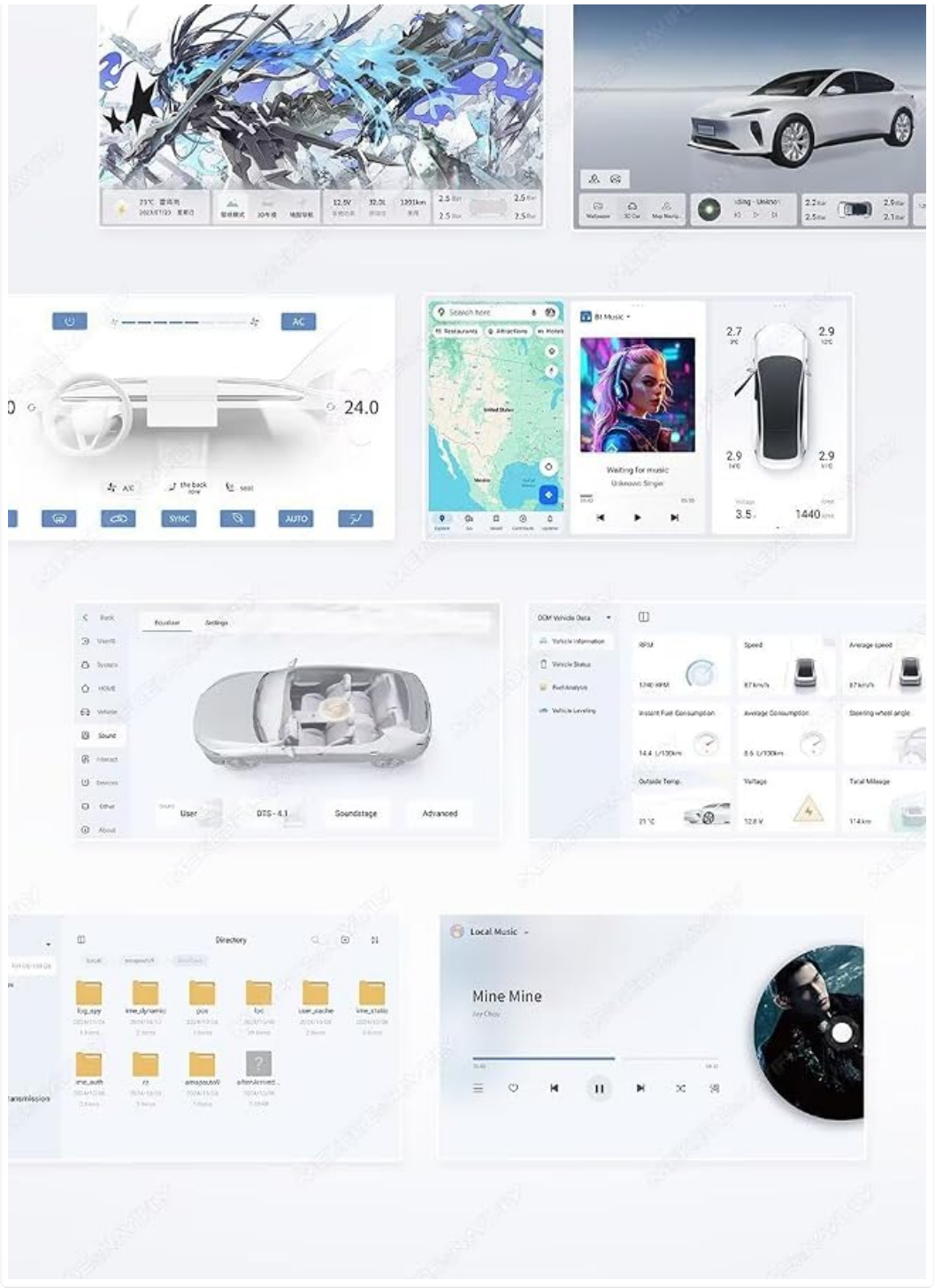


Image Description: This image presents a detailed comparison table outlining the specifications for various DUDU series car stereo models: DUDU4, DUDU5, DUDU6, and DUDU7. Key specifications compared include RAM/ROM, CPU, Memory type, GPS, MIC, USB interface, Power amplifier, DSP, Amp, Android version, Car machine system, Audio output, BT chip, Filter capacitance, Screen size/resolution, CP/AA (CarPlay/Android Auto), Network, Radio, and Voice Control. The DUDU7 model is highlighted with its superior specifications like 12+256GB/12+512GB RAM/ROM, 8-Core UIS7870 CPU, UFS 3.1, Dual Band 6 mode GPS, Digital noise cancelling MIC, USB 3.2 GEN1, TDA7808 amplifier, AKM7739 DSP, Android 13, and 9.5"/10.36"/11.5" 2K 2000*1200 screen.

Feature	Detail
Model	DUDU7
Operating System	Android 13
CPU	8 Core UIS7870 Customized version A76 2.7Ghz 6nm processor

Feature	Detail
Memory Type	UFS 3.1 Read data 1700M+
RAM/ROM (Current Model)	12GB RAM / 256GB ROM
Display Resolution	2000x1200 (2K)
Screen Size	9.5 inch (Other variants available in 10.36" / 11.5" / 13")
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	Includes 360 panoramic chip (default)
Connectivity Technology	Wireless (4G, Wi-Fi, Bluetooth)
Output Wattage	50 Watts
Control Method	Touch, Voice Command (Buttons, Keyboard, Microphone)

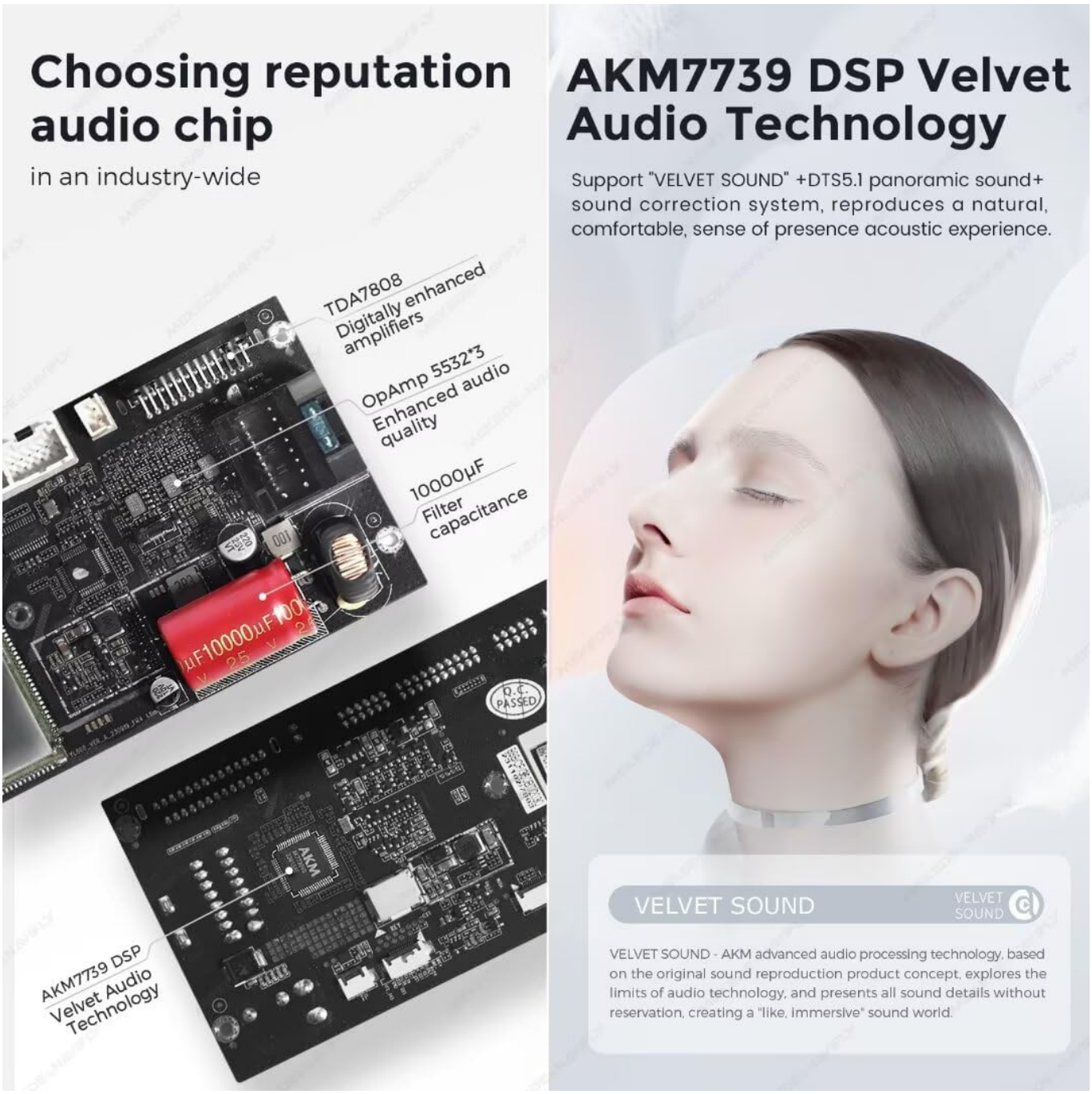


Image Description: This image highlights the performance capabilities of the DUDU7's UIS 7870 A76 processor, showing its 2.7GHz 8-core architecture, 6nm process, and significant CPU and GPU boosts. It also features a comparison of mainstream chip run scores and demonstrates the DUDU7's 7x faster read speed and 7.75x faster write speed compared to the 7862 model, attributed to its UFS 3.1 storage memory.

Warranty Information

The MekedeTech DUDUAUTO DUDU7 Car Stereo 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, misuse, accidents, unauthorized repairs, or normal wear and tear.
Please retain your proof of purchase for warranty claims.

Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact MekedeTech customer support. You can typically find contact information on the official MekedeTech website or through your point of purchase.

When contacting support, please have your product model (DUDU7) and proof of purchase readily available.

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