

MekedeTech DUDU7-6-64

MekedeTech DUDUAUTO DUDU7 Car Radio Stereo Head Unit User Manual

Model: DUDU7-6-64

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MekedeTech DUDUAUTO DUDU7 Car Radio Stereo Head Unit. Please read this manual thoroughly before using the product to ensure proper function and safety. This unit is designed for VW Multivan T5 models from 2003 to 2015.

2. PRODUCT OVERVIEW

The MekedeTech DUDUAUTO DUDU7 is an advanced 2K touch screen car multimedia head unit featuring Android 13, an 8-core UIS7870 processor, 6GB RAM, and 64GB ROM. It offers a comprehensive in-car entertainment and navigation experience.

Key Features:

- 9.5-inch 2K Touch Screen Display
- Android 13 Operating System
- 8-Core UIS7870 Processor (A76 2.7Ghz)
- 6GB RAM, 64GB ROM (UFS 3.1)
- Wireless CarPlay & Android Auto Support
- Qualcomm 3031 Bluetooth 5.0 with aptX HD
- 4G LTE & Wi-Fi Connectivity (5G Wi-Fi support)
- Digital Noise Cancellation Microphone
- Optical + Coaxial, RCA 5.1 Channel Audio Outputs
- Built-in 360 Panoramic Chip
- Support for factory steering wheel controls

Components and Connections:

The DUDU7 head unit features various ports and connections on its rear panel for integration with your vehicle's systems and external accessories.



Image: Rear panel of the DUDU7 head unit showing various connection points. These include ports for the radio antenna, WiFi antenna, GPS antenna, 4G antenna, USB ports (4-pin, 6-pin, Type-C), reverse video cable, RCA cable with 4G card slot, 360 panoramic device, power cable, and microphone input. A cooling fan is also visible.

- **Power Cable (G):** Connects to the vehicle's power supply.
- **RCA Cable with 4G Card Slot (A):** For audio/video input/output and 4G SIM card insertion.
- **360 Panoramic Device (B):** Input for 360-degree camera systems.
- **Protocol Serial Use with Can-bus (C):** For vehicle data communication.
- **4Pin USB (E) & 6Pin USB (D):** For connecting USB devices.
- **Reverse Video Cable (F):** Input for a rearview camera.
- **Radio Antenna (8):** Connects to the vehicle's radio antenna.
- **WiFi Antenna (7):** External antenna for Wi-Fi reception.
- **GPS Antenna (6):** External antenna for GPS signal reception.
- **4G Antenna (4):** External antenna for 4G LTE connectivity.

- **MIC (0):** External microphone input.
- **Type-C USB (8):** Additional USB port.
- **Coaxial Optical Audio Out:** For high-quality audio output to external amplifiers.

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 Check:

- Ensure the vehicle's ignition is off and the battery is disconnected before starting installation.
- Verify all included components are present according to the packing list.
- Confirm compatibility with your VW Multivan T5 (2003-2015) model.

3.2 Installation Steps (General Guide):

1. Carefully remove the existing factory radio from your vehicle's dashboard.
2. Connect the main power harness, RCA cables, USB cables, and antenna cables (Radio, GPS, WiFi, 4G) to the corresponding ports on the DUDU7 head unit. Refer to the "Components and Connections" diagram in Section 2.
3. If applicable, connect the reverse video cable and 360 panoramic device.
4. Connect the vehicle-specific CAN-bus decoder (if provided) to ensure steering wheel controls and other vehicle data functions operate correctly.
5. Carefully route all cables to avoid pinching or interference.
6. Mount the DUDU7 head unit into the dashboard opening.
7. Reconnect the vehicle battery and turn on the ignition to test the unit.
8. Secure the head unit in place and reassemble the dashboard trim.

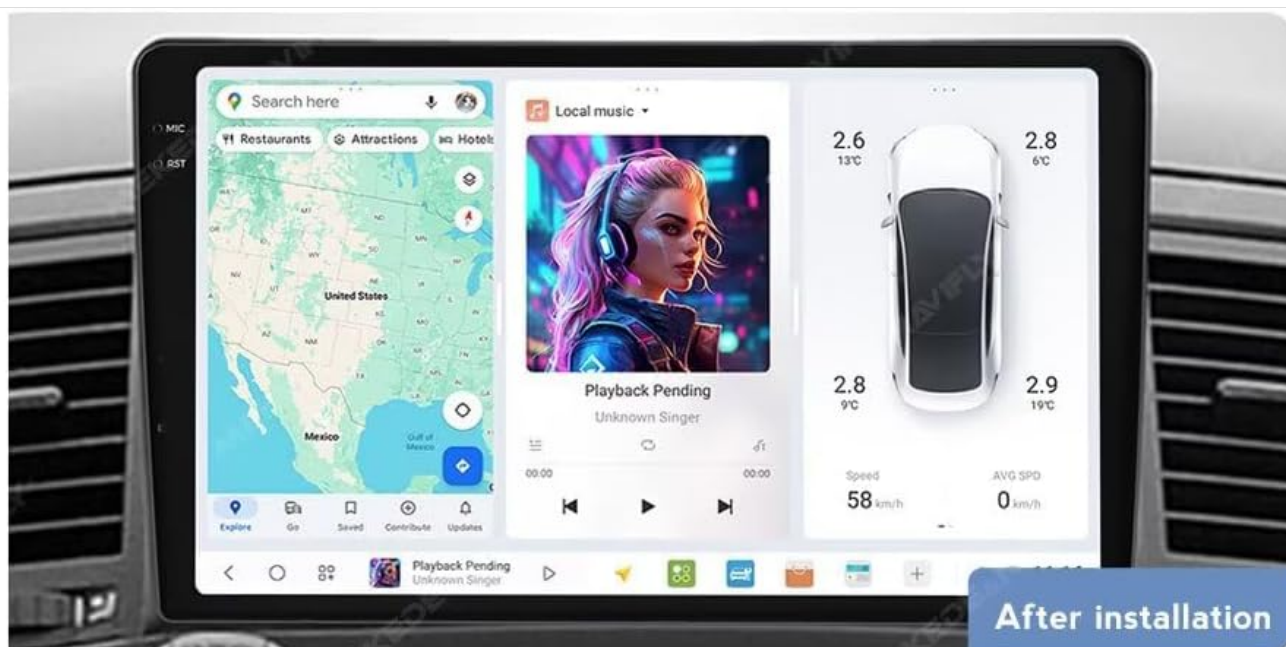
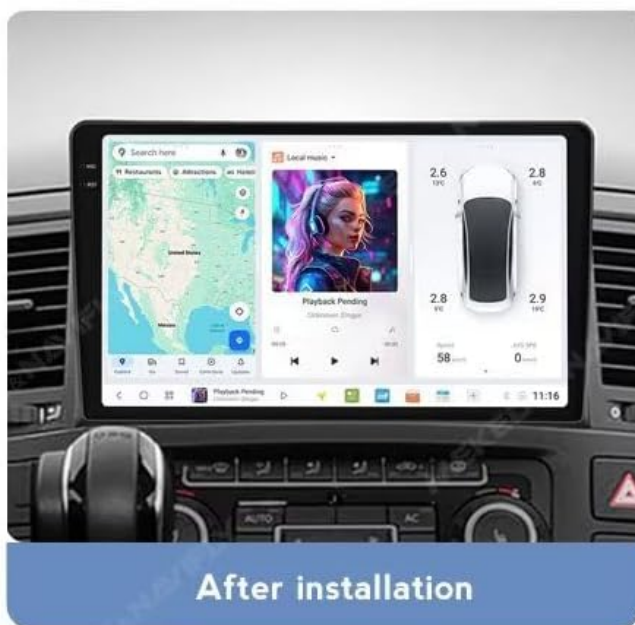


Image: A comparison showing the vehicle's dashboard before and after the installation of the DUDUAUTO head unit. The "Before installation" image displays the original factory radio, while the "After installation" image shows the new 9.5-inch touch screen seamlessly integrated into the dashboard, displaying navigation and media interfaces.

3.3 Initial Configuration:

- Upon first power-on, the unit may guide you through initial setup steps.
- **Language Selection:** Choose your preferred system language.
- **Time and Date:** Set the correct time zone and synchronize time.
- **Wi-Fi Connection:** Connect to an available Wi-Fi network for internet access and software updates.
- **Google Account:** Log in to your Google account to access the Play Store and other Google services.

4. OPERATING INSTRUCTIONS

The DUDUAUTO DUDU7 operates on Android 13, providing a familiar and intuitive user experience. All functions are primarily controlled via the 2K touch screen.

4.1 Basic Operation:

- **Power On/Off:** The unit typically powers on with the vehicle's ignition. A long press on the power button (if available) may turn it off or put it into standby.
- **Volume Control:** Adjust volume using the on-screen controls or vehicle's steering wheel buttons.
- **Home Screen:** Navigate to the home screen to access installed applications and widgets.
- **Settings:** Access system settings to customize display, sound, network, and other preferences.



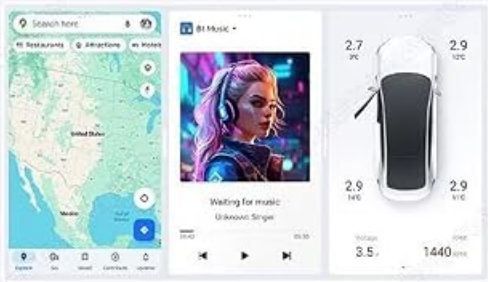
DUDU OS 3.5

Simple and Enthusiast Modes Available

We've evolved from feature-heavy complexity to focus on intuitive, streamlined operation while maintaining powerful functionality.









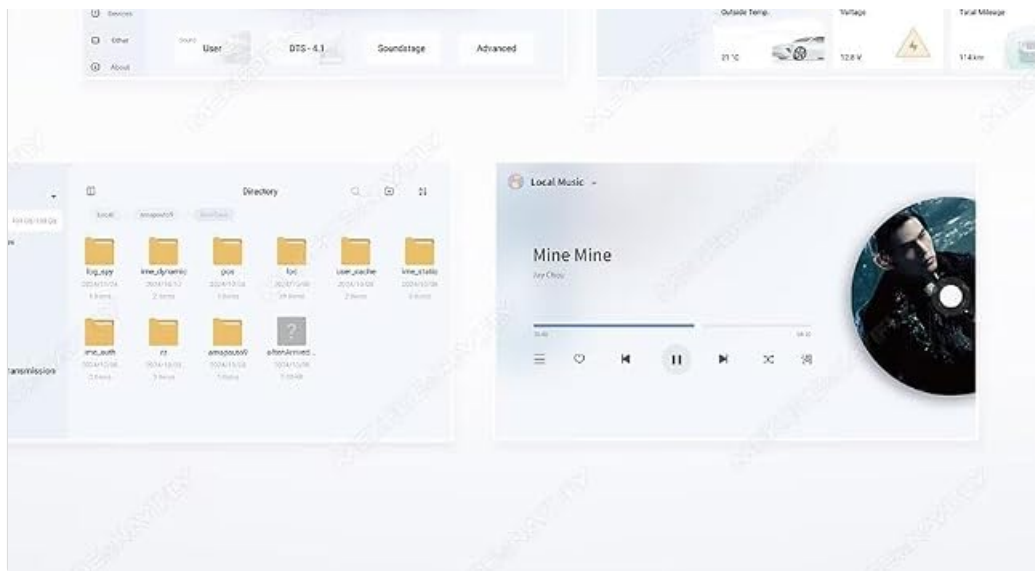



Image: Screenshots of the DUDU OS 3.5 user interface, showcasing various screens including a customizable home screen, navigation map, media playback, vehicle settings, and file browser. The interface is designed for intuitive operation with clear icons and layouts.

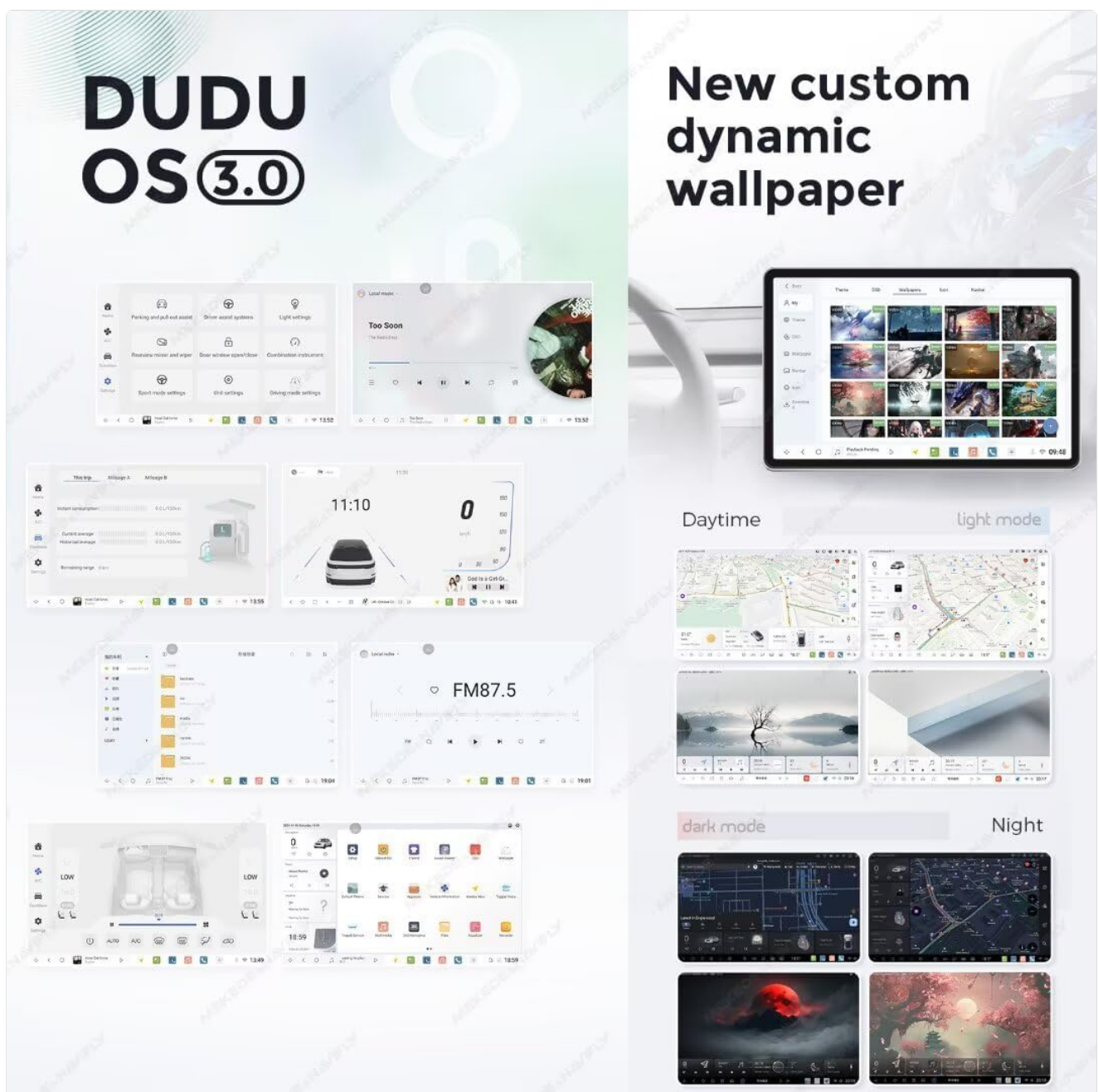


Image: Displays the DUDU OS 3.0 interface with examples of dynamic wallpapers and different themes for day and night modes. Various application screens are shown, including settings, trip information, radio, and media playback, highlighting customization options.

4.2 Wireless CarPlay & Android Auto:

The DUDU7 supports both wireless CarPlay for iPhones and wireless Android Auto for Android devices, allowing seamless integration of your smartphone's features.

- **For iPhone (CarPlay):**
 - a. Ensure Wi-Fi and Bluetooth are enabled on your iPhone.
 - b. On the DUDU7, open the CarPlay application.
 - c. Follow the on-screen prompts to pair your iPhone via Bluetooth.
 - d. Once paired, CarPlay will automatically launch.
- **For Android (Android Auto):**
 - a. Ensure Wi-Fi and Bluetooth are enabled on your Android phone.
 - b. On the DUDU7, open the Android Auto application.
 - c. Follow the on-screen prompts to pair your Android phone via Bluetooth.
 - d. Once paired, Android Auto will automatically launch.

4.3 Bluetooth Connectivity (Qualcomm 3031 BT 5.0):

Connect your phone or other Bluetooth devices for hands-free calling and audio streaming.

1. Go to the Bluetooth settings on the DUDU7.
2. Enable Bluetooth on your device and make it discoverable.
3. Select your device from the list on the DUDU7 screen and pair.
4. Confirm the pairing code on both devices.

4.4 4G LTE & Wi-Fi:

- **4G LTE:** Insert a compatible SIM card into the designated slot (usually on the RCA cable harness) for mobile data access.
- **Wi-Fi:** Connect to a local Wi-Fi hotspot or your phone's hotspot for internet access. Go to Settings > Network & Internet > Wi-Fi.

4.5 Navigation:

The unit supports various navigation applications. Ensure the GPS antenna is properly installed for accurate positioning.

- Open your preferred navigation app (e.g., Google Maps).
- Enter your destination and follow the on-screen and voice-guided directions.

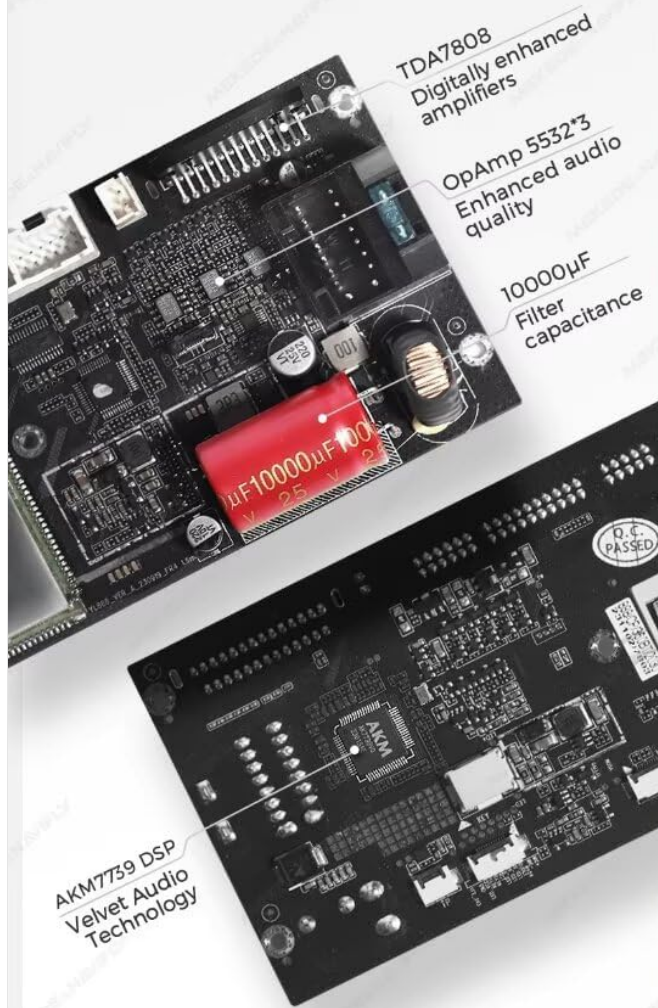
4.6 Audio Features (AKM7739 DSP Velvet Audio Technology):

The DUDU7 incorporates advanced audio processing for a superior sound experience.

- Access the Equalizer or DSP settings in the audio menu to customize sound profiles.
- Utilize the Optical + Coaxial outputs for connecting to high-fidelity external amplifiers.

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 internal audio components, highlighting the TDA7808 digital amplifier and the AKM7739 DSP Velvet Audio Technology chip. Text describes the support for "VELVET SOUND" and DTS 5.1 panoramic sound, aiming for a natural and immersive acoustic experience.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your DUDUAUTO DUDU7 head unit.

- **Screen Cleaning:** Use a soft, lint-free cloth slightly dampened with water or a screen cleaner. Avoid harsh chemicals or abrasive materials.
- **Software Updates:** Periodically check for system updates via Wi-Fi to ensure you have the latest features and security patches. Go to Settings > System > System update.
- **Cable Connections:** Ensure all cables are securely connected and free from damage.
- **Environmental Conditions:** Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your DUDUAUTO DUDU7 head unit. If problems persist, contact customer support.

Common Issues and Solutions:

- **No Power:**
 - Check all power cable connections.
 - Verify the vehicle's fuse for the radio is intact.
 - Ensure the vehicle battery is properly connected and charged.
- **No Sound:**
 - Check volume levels on the head unit and any connected amplifiers.
 - Verify speaker connections.
 - Ensure the correct audio source is selected.
 - Check audio output settings (e.g., ensure RCA/Optical outputs are correctly configured if external amplifiers are used).
- **GPS Signal Loss/Inaccuracy:**
 - Ensure the GPS antenna is securely connected and placed in a location with a clear view of the sky.
 - Avoid placing the antenna near metal objects that could interfere with the signal.
- **Bluetooth Connectivity Issues:**
 - Ensure Bluetooth is enabled on both the head unit and your device.
 - Delete previous pairings and attempt to re-pair the device.
 - Restart both the head unit and your Bluetooth device.
- **CarPlay/Android Auto Not Connecting:**
 - Ensure Wi-Fi and Bluetooth are enabled on your phone.
 - Verify that your phone's operating system is up to date.
 - Try restarting the head unit and your phone.
 - Check for any specific app permissions required on your phone for CarPlay/Android Auto.
- **Touch Screen Unresponsive:**
 - Perform a soft reset of the unit (refer to the device's specific reset procedure, often a small reset button or holding the power button).
 - Ensure the screen is clean and free from debris.

7. SPECIFICATIONS

Detailed technical specifications for the MekedeTech DUDUAUTO DUDU7-6-64 Car Radio Stereo Head Unit.

	DUDU4	DUDU5	DUDU6	DUDU7	
RAM/ROM	4+32GB	4+64GB	6+64GB 8+128GB 8+256GB	6+64GB 8+128GB	12+256GB 12+512GB

CPU	8-Core UIS8581A	8-Core UIS7862	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	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: A detailed comparison table outlining specifications for DUDU3, DUDU4, DUDU5, DUDU6, and DUDU7 models. Key specifications 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, CP/AA support, network, radio IC, and voice control. The DUDU7 model is highlighted with its advanced features.

MekedeTech DUDUAUTO DUDU7-6-64 Specifications

Feature	Specification
Model Name	MKD-DUDU7-6-64
Operating System	Android 13
CPU	8 Core UIS7870 (Customized version A76 2.7Ghz 6nm processor)
Memory (RAM/ROM)	6GB RAM / 64GB ROM (UFS 3.1)
Display	9.5 inch 2K Touch Screen (Capacitive, OLED)
CarPlay & Android Auto	Wired and Wireless Support
Bluetooth	Qualcomm 3031 Chip, BT 5.0 (Supports aptX HD protocol)
Wi-Fi	802.11a/b/g/n/ac, Support 5G Wi-Fi
Network	4G LTE (SIM card slot)
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), USB 2.0*3
Power Amplifier	TDA7808 Digital AB type
DSP	AKM7739 Velvet Audio Technology
Audio Output	Optical + Coaxial, RCA 5.1 Channel Outputs
Radio IC	TDA7708
Work Voltage	9V~16V
Special Features	Built-in 360 Panoramic Chip, Steering Wheel Control Support

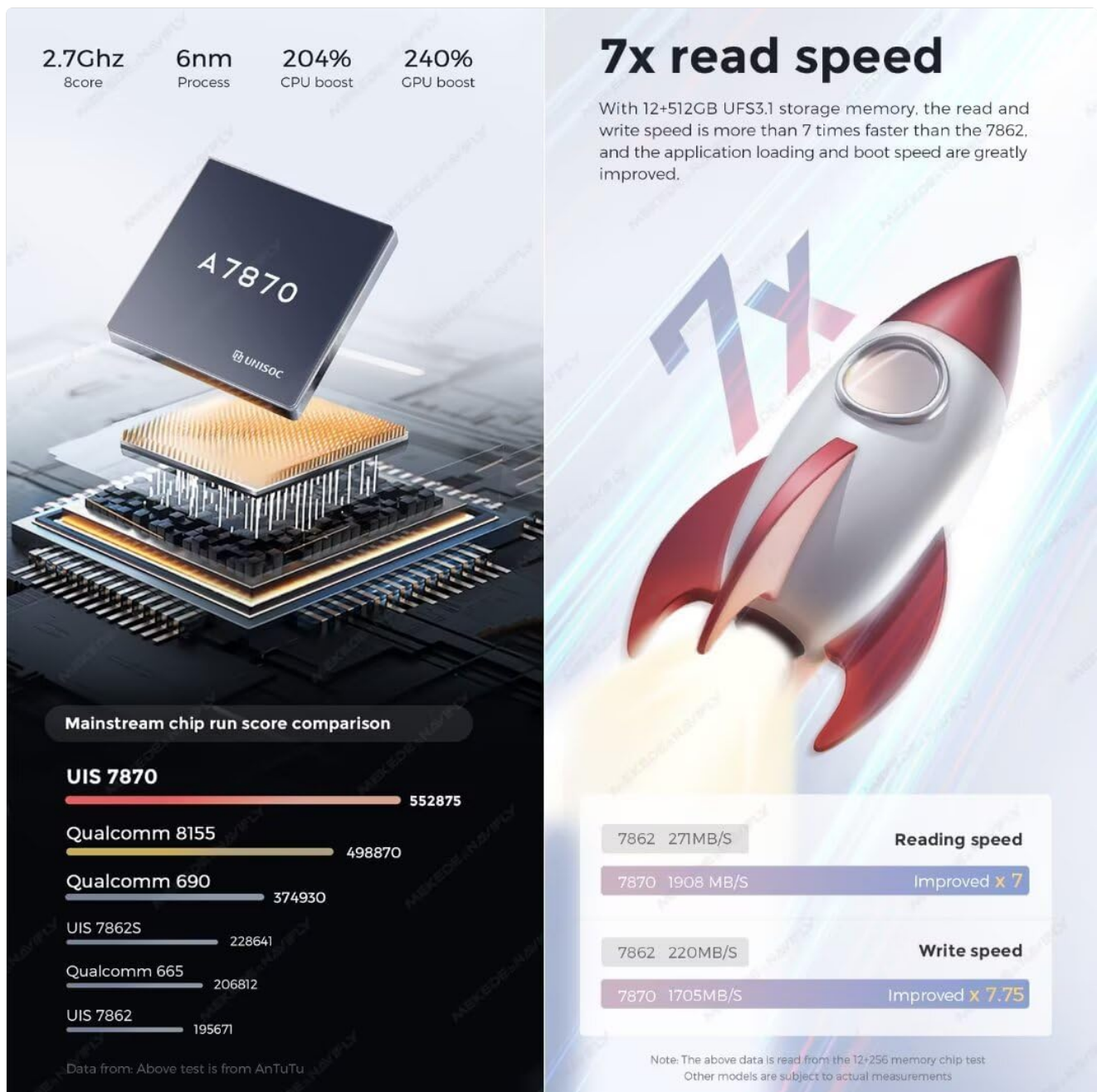


Image: An infographic detailing the UIS7870 processor, highlighting its 2.7GHz 8-core architecture, 6nm process, and significant CPU and GPU boost percentages. It also includes a comparison of mainstream chip run scores and a demonstration of 7x read speed improvement with UFS 3.1 storage.

8. WARRANTY INFORMATION

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

9. CUSTOMER SUPPORT

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact MekedeTech customer support through your purchase platform or the official MekedeTech website. When contacting support, please provide your product model (DUDU7-6-64), purchase date, and a detailed description of the issue.

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.

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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

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