

MekedeTech DUDU7

MekedeTech DUDUAUTO DUDU7 2K Touch Screen Car Stereo Head Unit

USER MANUAL FOR HYUNDAI IX35 (2009-2015)

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your MekedeTech DUDUAUTO DUDU7 2K Touch Screen Car Stereo Head Unit. Designed specifically for Hyundai IX35 models from 2009 to 2015, this unit offers advanced features including a 9.5-inch 2K touch screen, Android 13 operating system, wireless CarPlay, Android Auto, and integrated GPS. Please read this manual thoroughly before installation and use to ensure proper function and safety.

Setup and Installation

Before beginning installation, ensure your vehicle's ignition is off and the battery is disconnected to prevent electrical damage. Professional installation is recommended.

1. Pre-Installation Check

- Verify all components listed in the packing contents are present.
- Ensure the vehicle's dashboard opening matches the head unit's dimensions.
- Familiarize yourself with the vehicle's existing wiring harness.

2. Wiring Connections

Refer to the wiring diagram below and the included installation guide for specific connections. Ensure all cables are securely connected to their corresponding ports.



Image: DUDU7 Rear Panel Wiring Diagram. This image illustrates the rear panel of the DUDU7 head unit, detailing the various ports and connections. Key connections include the Power Cable (G), Radio Antenna (8), WiFi Antenna (7), GPS Antenna (6), 4G Antenna (4), MIC (0), USB ports (D, E), RCA Cable (A), Reverse Video Cable (F), Protocol Serial (C), and 360 panoramic device (B). It also shows the cooling fan, Type-C USB, and Coaxial/Optical Audio Out ports.

- **Power Cable (G):** Connect to the vehicle's power harness.
- **Radio Antenna (8):** Connect the vehicle's radio antenna.
- **GPS Antenna (6):** Install the GPS antenna in a location with a clear view of the sky.

- **4G Antenna (4):** Install the 4G antenna for cellular data connectivity.
- **USB Ports (D, E):** Connect external USB devices or accessories.
- **RCA Cable (A):** For audio/video input/output, including subwoofer and amplifier connections.
- **Reverse Video Cable (F):** Connect to a compatible reverse camera.
- **MIC (0):** External microphone input for improved call clarity.

3. Physical Installation

Carefully mount the head unit into the dashboard opening. Ensure all cables are tucked away and not pinched. Secure the unit using the provided mounting brackets and screws.

	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	12.3 inch Screen			9.5" / 10.36" / 11.5" : 2K 2000*1200

Screen	In-cell Screen	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: Before and After Installation. This image displays the vehicle's dashboard before the installation of the DUDU7 head unit (bottom left) and two views of the dashboard after the DUDU7 head unit has been successfully installed (top and bottom right). It highlights the seamless integration and modern aesthetic upgrade.

4. Initial Power-On

Reconnect the vehicle battery. Turn the ignition to the ACC or ON position. The head unit should power on and display the DUDU OS boot screen. Follow any on-screen prompts for initial setup, such as language selection and time zone.

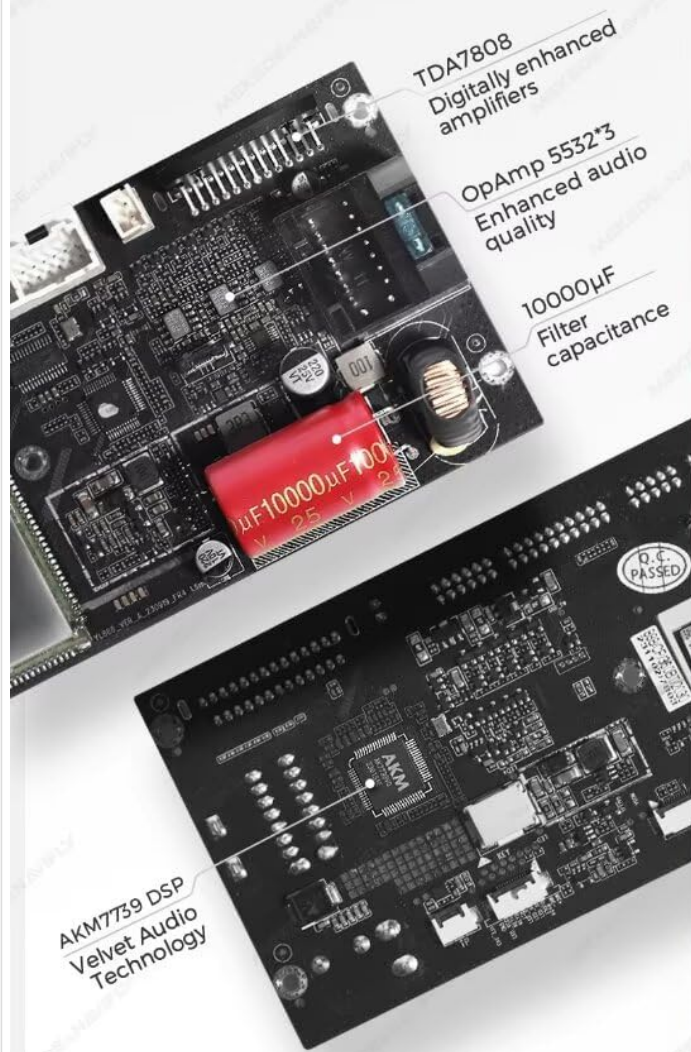
Operating Instructions

1. DUDU OS Interface

The DUDU7 operates on DUDU OS 3.5 (Android 13), offering an intuitive and streamlined user experience. The home screen provides quick access to navigation, media, phone, and settings.

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: DUDU OS 3.5 User Interface. This image showcases various screens and features of the DUDU OS 3.5 interface, including navigation maps, media playback, vehicle information displays, and system settings, demonstrating its intuitive design and powerful functionality.

DUDU7

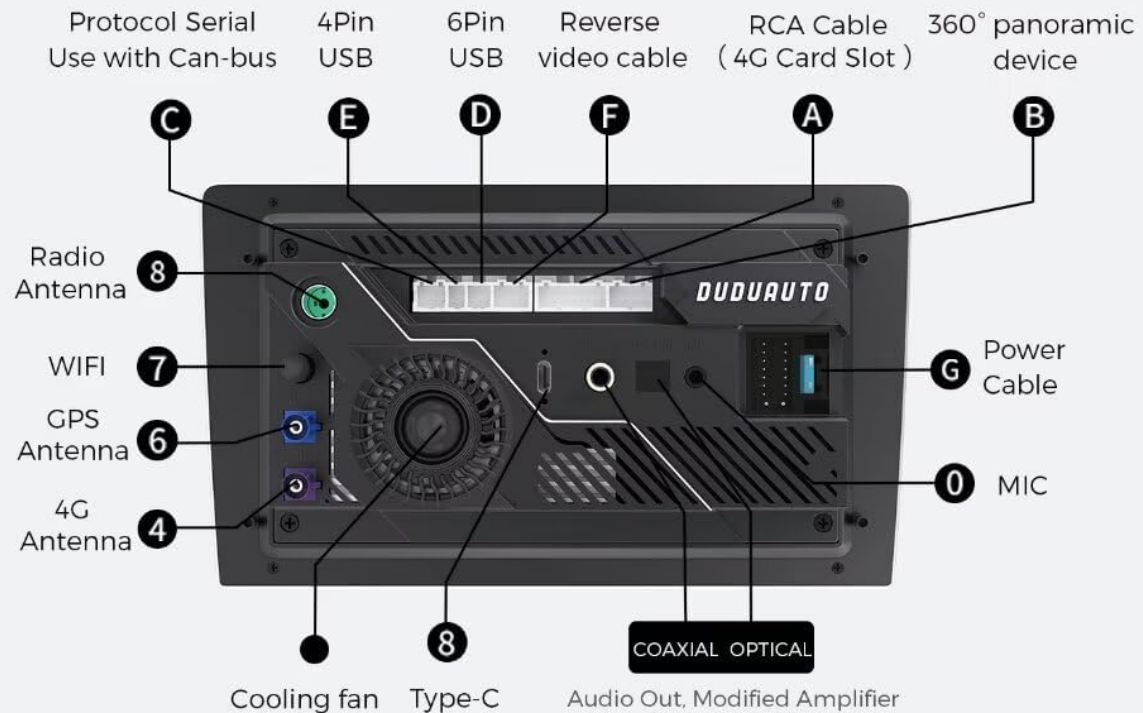


Image: DUDU OS 3.0 Interface and Dynamic Wallpaper. This image displays the DUDU OS 3.0 interface, highlighting various application screens, settings menus, and the new custom dynamic wallpaper feature, which allows for personalized visual themes for daytime and nighttime driving.

2. Wireless CarPlay & Android Auto

Connect your iPhone or Android smartphone wirelessly for seamless integration of navigation, music, calls, and messaging. To connect:

1. Ensure Bluetooth and Wi-Fi are enabled on your smartphone.
2. On the head unit, open the CarPlay or Android Auto application.
3. Follow the on-screen instructions to pair your device.

3. Bluetooth 5.0 (Qualcomm 3031 Chip)

The integrated Qualcomm 3031 Bluetooth 5.0 chip provides stable and high-quality audio streaming with aptX HD protocol support. To pair a device:

1. Go to the Bluetooth settings on the head unit.

2. Enable Bluetooth and make the unit discoverable.
3. On your phone, search for available Bluetooth devices and select "DUDU7".
4. Confirm the pairing code on both devices.

4. GPS Navigation

The DUDU7 supports dual-band 6-mode GPS (L1 L5 B1 B2a E1 E5a) for precise positioning. Pre-installed navigation apps or downloaded alternatives can be used for route guidance.

5. 4G LTE & Wi-Fi Connectivity

Insert a compatible SIM card into the designated slot for 4G LTE internet access. Alternatively, connect to a Wi-Fi hotspot for online services, app downloads, and streaming.

6. Audio Settings (AKM7739 DSP Velvet Audio Technology)

Utilize the built-in AKM7739 DSP with Velvet Audio Technology for advanced sound customization. Access the audio settings menu to adjust equalizer, balance, fader, and other sound parameters to optimize your listening experience. The unit features Optical + Coaxial and RCA 5.1 Channel Outputs for high-fidelity audio.

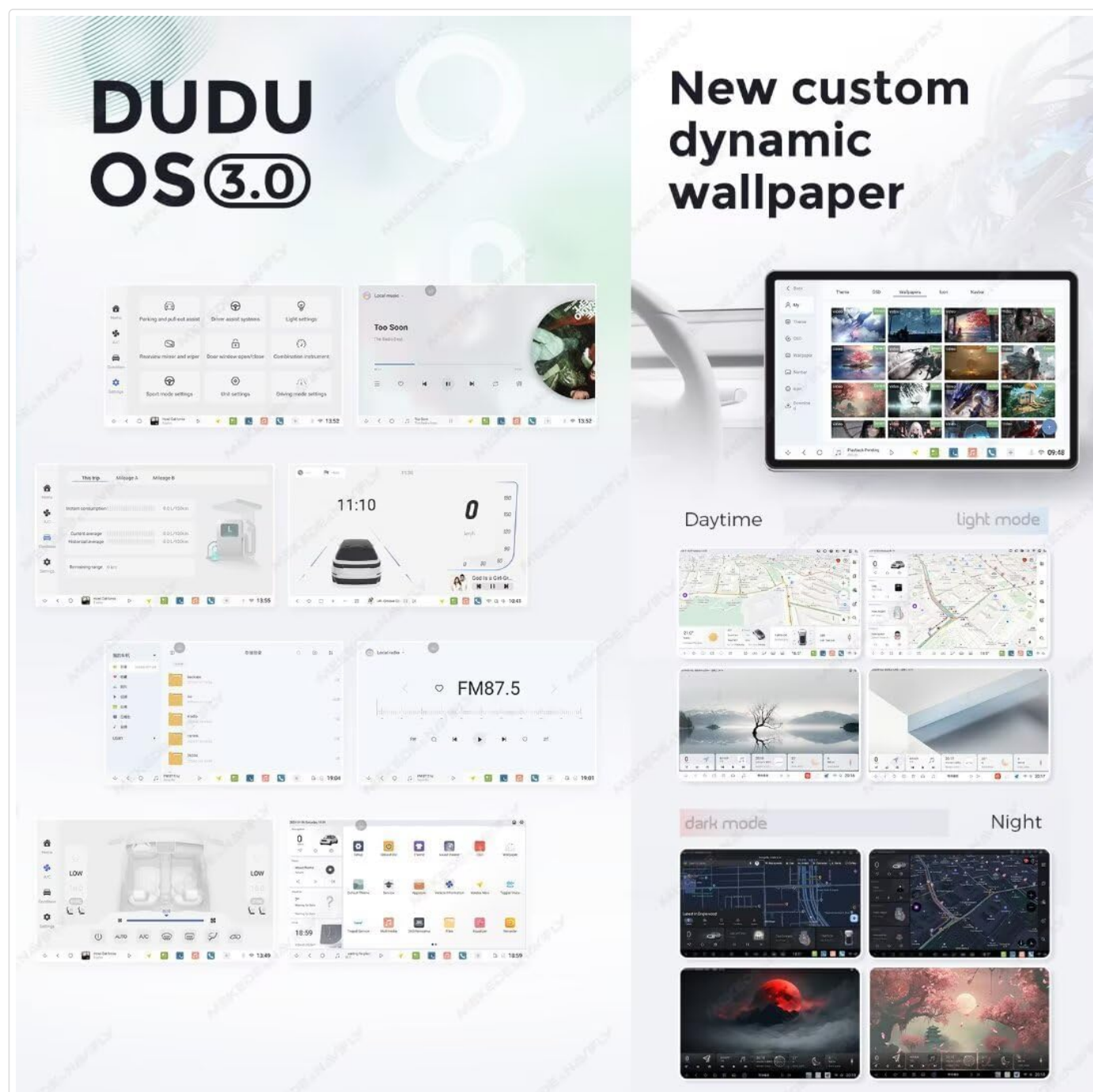


Image: AKM7739 DSP Velvet Audio Technology. This image highlights the AKM7739 DSP chip and its associated Velvet Audio Technology, emphasizing its role in delivering enhanced audio quality and a rich acoustic experience through advanced sound processing.

Maintenance

1. Screen Cleaning

To clean the 2K touch screen, gently wipe it with a soft, lint-free cloth. For stubborn smudges, slightly dampen the cloth with a screen cleaner solution specifically designed for electronic displays. Avoid using harsh chemicals or abrasive materials.

2. Software Updates

Periodically check for software updates to ensure optimal performance and access to new features. Updates can typically be found through the system settings menu or the manufacturer's official website. Follow the provided instructions carefully during the update process.

Troubleshooting

- **No Power:** Check all power connections and the vehicle's fuse box. Ensure the ignition is on.
- **No Sound:** Verify speaker connections, volume levels, and audio output settings. Check if the mute function is active.
- **GPS Signal Loss:** Ensure the GPS antenna is properly installed and has an unobstructed view of the sky.
- **Bluetooth/CarPlay/Android Auto Connectivity Issues:** Ensure Bluetooth and Wi-Fi are enabled on both the head unit and your smartphone. Try restarting both devices.
- **Touch Screen Unresponsive:** Perform a system reset (refer to the system settings for the reset option). If the issue persists, contact customer support.

Specifications

The MekedeTech DUDUAUTO DUDU7 model offers high-performance features. Below is a summary of its key specifications:

Feature	Specification
Model	DUDU7-6-64 (6GB RAM, 64GB ROM)
Compatibility	Hyundai IX35 (2009-2015)
Operating System	Android 13
CPU	8 Core UIS7870 Customized version A76 2.7Ghz 6nm processor
Memory Type	UFS 3.1 (Read data 1700M+)
Display	9.5-inch 2K Touch Screen (Capacitive OLED)
GPS	Dual Band 6 mode L1 L5 B1 B2a E1 E5a
Microphone	Digital Noise Cancellation Microphone

Feature	Specification
USB	USB 3.2 GEN1*1 (TYPE-C), USB 2.0*3
Power Amplifier	TDA7808 Digital AB type
DSP	AKM7739 Velvet Audio Technology
Bluetooth Chip	Qualcomm 3031 (BT5.0, aptX HD protocol)
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	Wired and Wireless support
360 Panorama	Integrated 360 panoramic chip (default)

For a comparison of DUDU models and their specifications, refer to the image below:

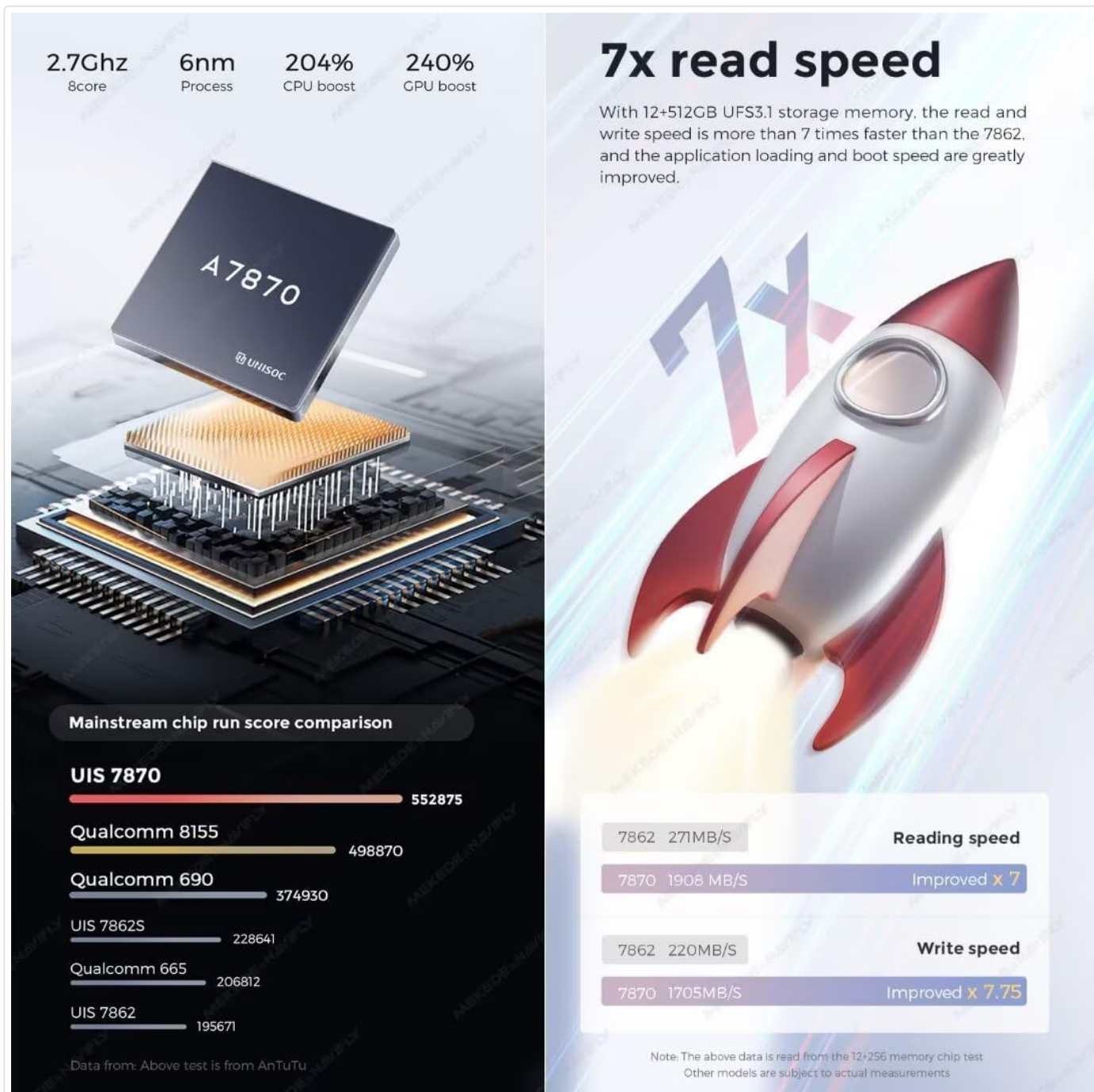
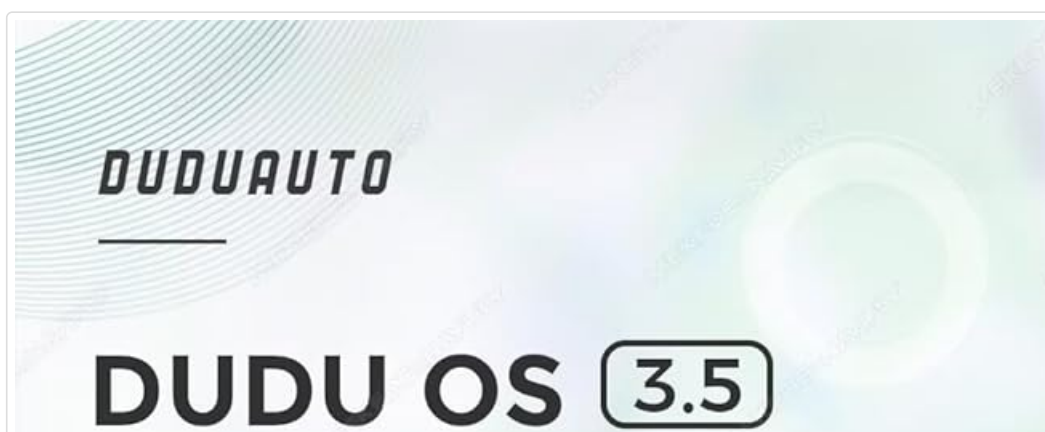


Image: DUDU Series Model Comparison. This table provides a detailed comparison of different DUDU models (DUDU4, DUDU5, DUDU6, DUDU7) across various specifications such as RAM/ROM, CPU, memory type, GPS, MIC, USB interface, power amplifier, DSP, Bluetooth chip, audio output, WiFi type, radio IC, and screen resolution. It highlights the advanced features of the DUDU7 model.

The DUDU7 model features a high-performance CPU and UFS 3.1 memory for faster data read speeds, significantly improving application loading and boot times.



Simple and Enthusiast Modes Available

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

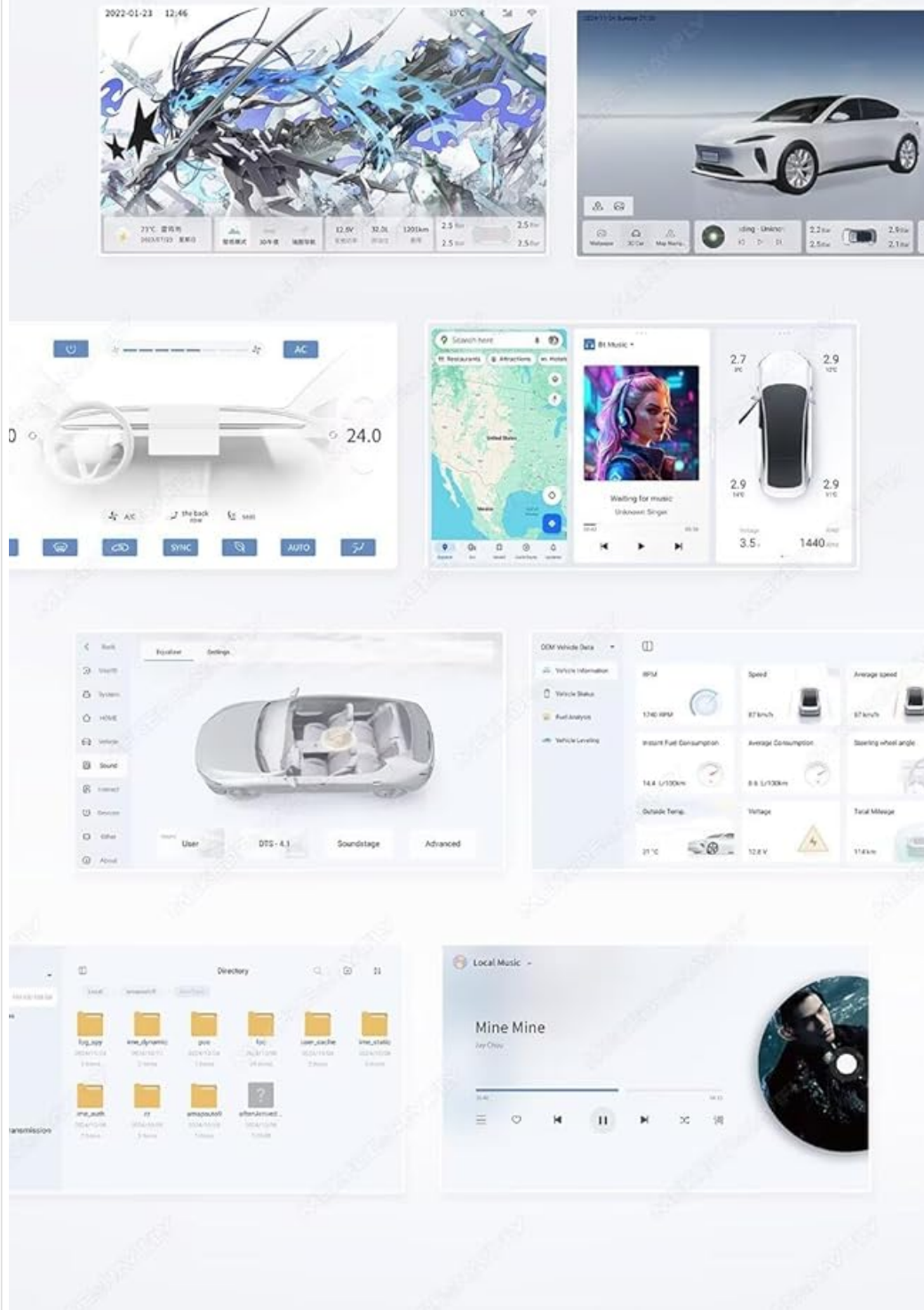


Image: CPU and Read Speed Comparison. This graphic illustrates the performance benefits of the UIS 7870 CPU and UFS 3.1 storage in the DUDU7. It shows a comparison of CPU benchmark scores and demonstrates a 7x improvement in read speed and 7.75x improvement

in write speed compared to previous generations, leading to faster application loading and system boot times.

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.

Customer Support

If you encounter any issues or have questions not covered in this manual, please contact MekedeTech customer support. For the most efficient assistance, have your product model number (DUDU7-6-64) and purchase details ready.

You can typically find support contact information on the official MekedeTech website or through your original point of purchase.

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