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MekedeTech DUDU7

MekedeTech DUDUAUTO DUDU7 Car Stereo Dash Kit User Manual

For KIA Optima 2011-2014 Models

1. Introduction

Thank you for choosing the MekedeTech DUDUAUTO DUDU7 Car Stereo Dash Kit. This manual provides essential information for the proper installation, operation, and maintenance of your new car multimedia system. Please read this manual thoroughly before installation and use to ensure optimal performance and safety. Keep this manual for future reference.

2. Product Overview

The MekedeTech DUDUAUTO DUDU7 is a 9.5-inch 2K touch screen car stereo system designed to seamlessly integrate into KIA Optima models from 2011 to 2014. It features an Android 13 operating system, high-performance hardware, and advanced connectivity options to enhance your driving experience.

Key Features:

- **Operating System:** Android 13
- **Display:** 9.5-inch 2K Touch Screen (2000x1200 resolution)
- **Processor:** 8 Core UIS7870 Customized version A76 2.7Ghz 6nm processor
- **Memory:** UFS 3.1 for fast data read/write speeds
- **Connectivity:** Wireless CarPlay & Android Auto, 4G LTE & Wi-Fi (5G support), Bluetooth 5.0 (Qualcomm 3031 chip with aptX HD)
- **Audio:** TDA7808 Digital AB type power amplifier, AKM7739 DSP Velvet Audio Technology, Optical + Coaxial, RCA 5.1 Channel Outputs
- **Microphone:** Digital Noise Cancellation Microphone
- **USB Ports:** USB 3.2 GEN1 (Type-C) x1, USB 2.0 x3
- **Navigation:** Dual Band 6 mode GPS (L1 L5 B1 B2a E1 E5a)
- **Additional:** Integrated 360 panoramic chip (default)

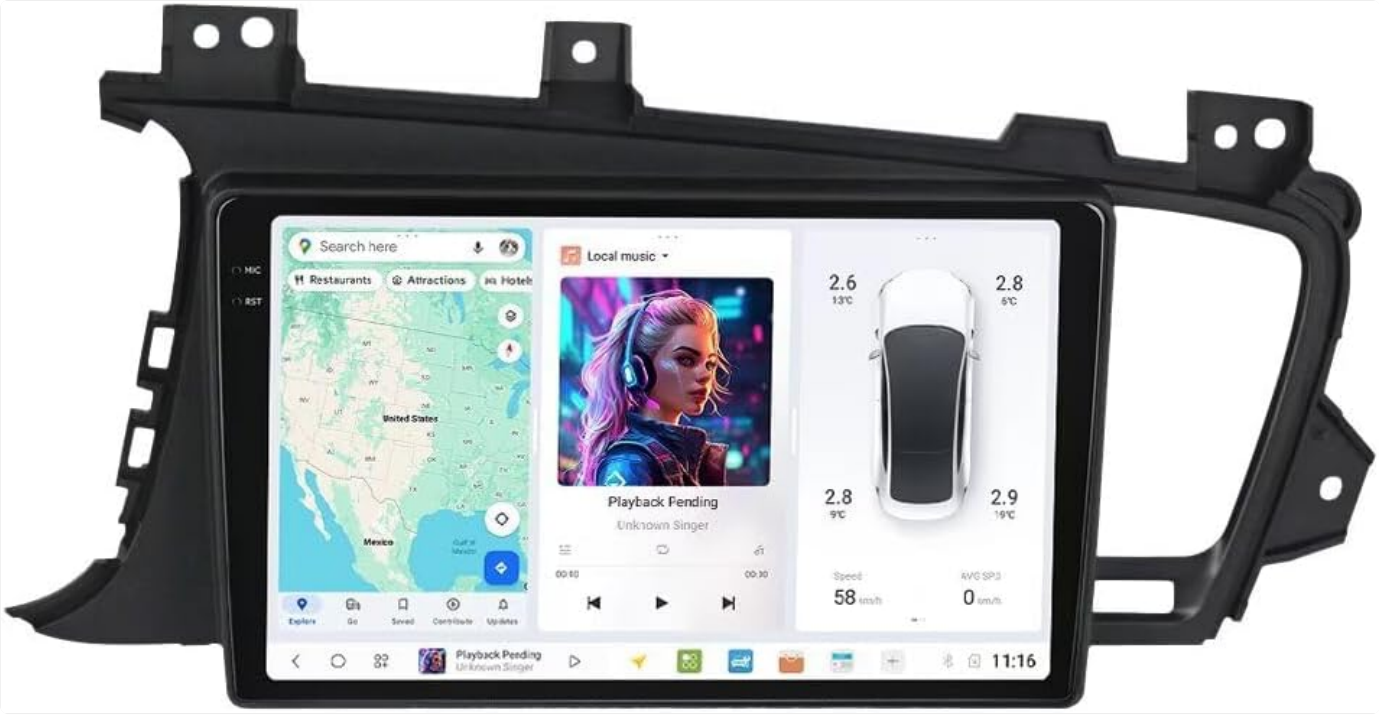


Figure 2.1: Front view of the MekedeTech DUDUAUTO DUDU7 car stereo integrated into its custom dash kit.

3. Specifications

Detailed technical specifications for the DUDUAUTO DUDU7 unit are listed below:

Operating System:
Android 13

CPU:
8 Core UIS7870 (A76 2.7Ghz, 6nm process)

Memory Type:
UFS 3.1 (Read data 1700M+)

Display Resolution:
2000x1200

GPS:
Dual Band 6 mode (L1 L5 B1 B2a E1 E5a)

Microphone:
Digital Noise Cancellation

USB Ports:
USB 3.2 GEN1 (Type-C) x1, USB 2.0 x3

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 (Supports 5G WIFI)

Radio IC:

TDA7708

Work Voltage:

9V~16V

CarPlay & Android Auto:

Supports Wired and Wireless

360 Panorama:

Includes 360 panoramic chip by default

Color:

Black

Output Wattage:

50 Watts

	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.	

Figure 3.1: Comparison of specifications across DUDU4, DUDU5, DUDU6, and DUDU7 models, highlighting key differences in RAM/ROM, CPU, and audio components.

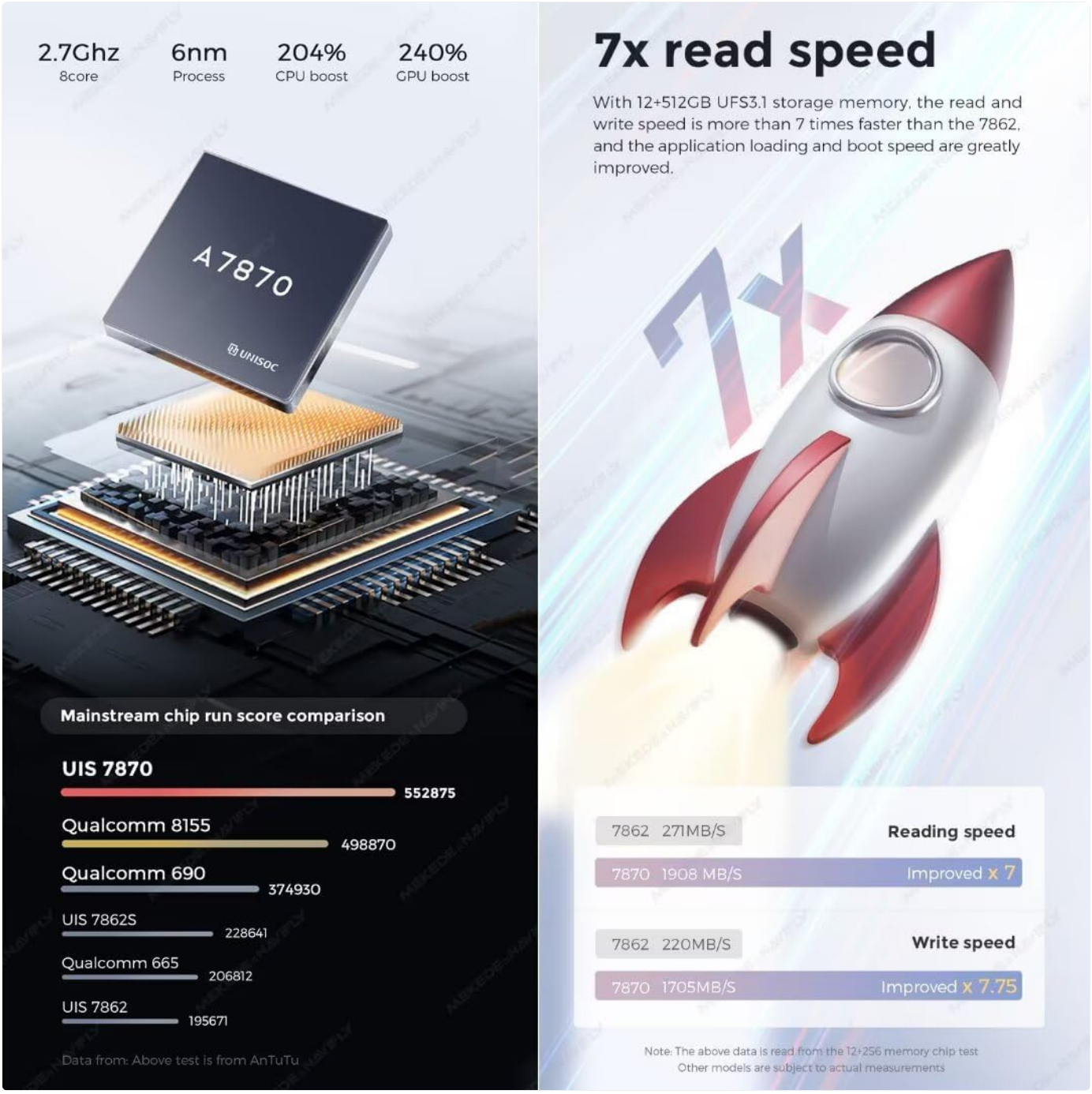


Figure 3.2: Visual representation of the UIS 7870 CPU architecture and its performance benchmarks, including a comparison of read/write speeds with previous generations.

4. Setup & Installation

Installation of the DUDUAUTO DUDU7 unit requires technical knowledge and experience with car electronics. It is highly recommended to have the unit installed by a qualified professional to prevent damage to the product or your vehicle.

4.1 Pre-Installation Checklist:

- Ensure your vehicle is a KIA Optima model manufactured between 2011 and 2014.
- Gather all necessary tools (e.g., trim removal tools, screwdrivers, wire strippers).
- Disconnect the vehicle's battery to prevent electrical shorts.
- Verify all components listed in the packaging are present.

4.2 Installation Steps (General Guide):

1. Carefully remove the existing factory radio and dashboard trim. Refer to your vehicle's service manual for specific instructions.
2. Connect the included wiring harness to the DUDUAUTO DUDU7 unit and the vehicle's wiring. Ensure all connections are secure.
3. Connect the GPS antenna, 4G antenna, and Wi-Fi antenna to their respective ports on the rear of the unit. Position antennas for optimal signal reception.
4. If installing a reversing camera or other accessories, connect them to the appropriate RCA or USB ports.
5. Mount the DUDUAUTO DUDU7 unit into the provided dash kit.
6. Carefully install the assembled unit and dash kit into the vehicle's dashboard opening.
7. Reconnect the vehicle's battery.
8. Power on the unit and perform initial testing of all functions (audio, touch screen, GPS, Bluetooth, CarPlay/Android Auto).
9. Reinstall any removed dashboard trim pieces.



Figure 4.1: Visual comparison of the KIA Optima dashboard before and after the installation of the DUDUAUTO DUDU7 car stereo.



Figure 4.2: Detailed diagram of the DUDU7 unit's rear panel, indicating various connection ports (e.g., USB, GPS, 4G, RCA, Power, MIC, Type-C, Cooling fan) and illustrating included accessories like antennas and cables.

5. Operating Instructions

This section covers the basic operation of your DUDUAUTO DUDU7 car stereo.

5.1 Power On/Off and Basic Navigation:

- **Power On:** The unit will typically power on automatically when the vehicle's ignition is turned on.
- **Power Off:** The unit will power off when the vehicle's ignition is turned off.
- **Touch Screen:** Navigate the Android interface by tapping, swiping, and pinching on the touch screen, similar to a smartphone or tablet.
- **Home Screen:** Access various applications and widgets from the customizable home screen.

DUDUAUTO

DUDU OS 3.5

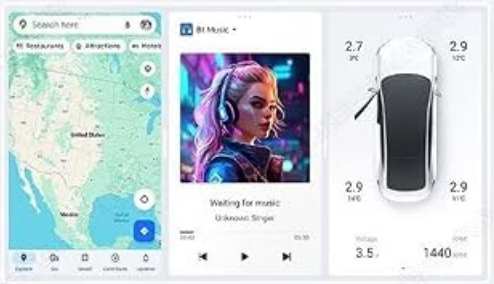
Simple and Enthusiast Modes Available

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

















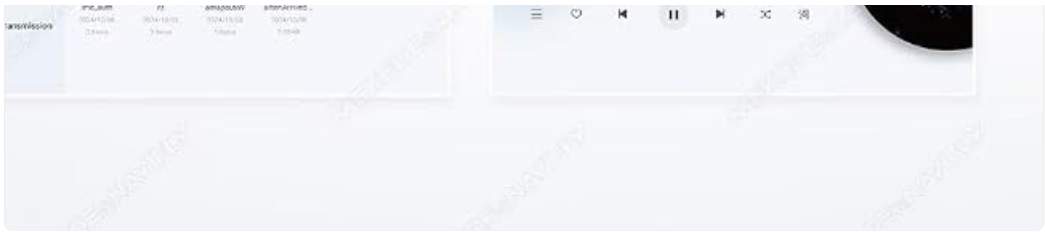


Figure 5.1: Examples of the DUDU OS 3.5 user interface, demonstrating layouts for navigation, media playback, and vehicle information display.

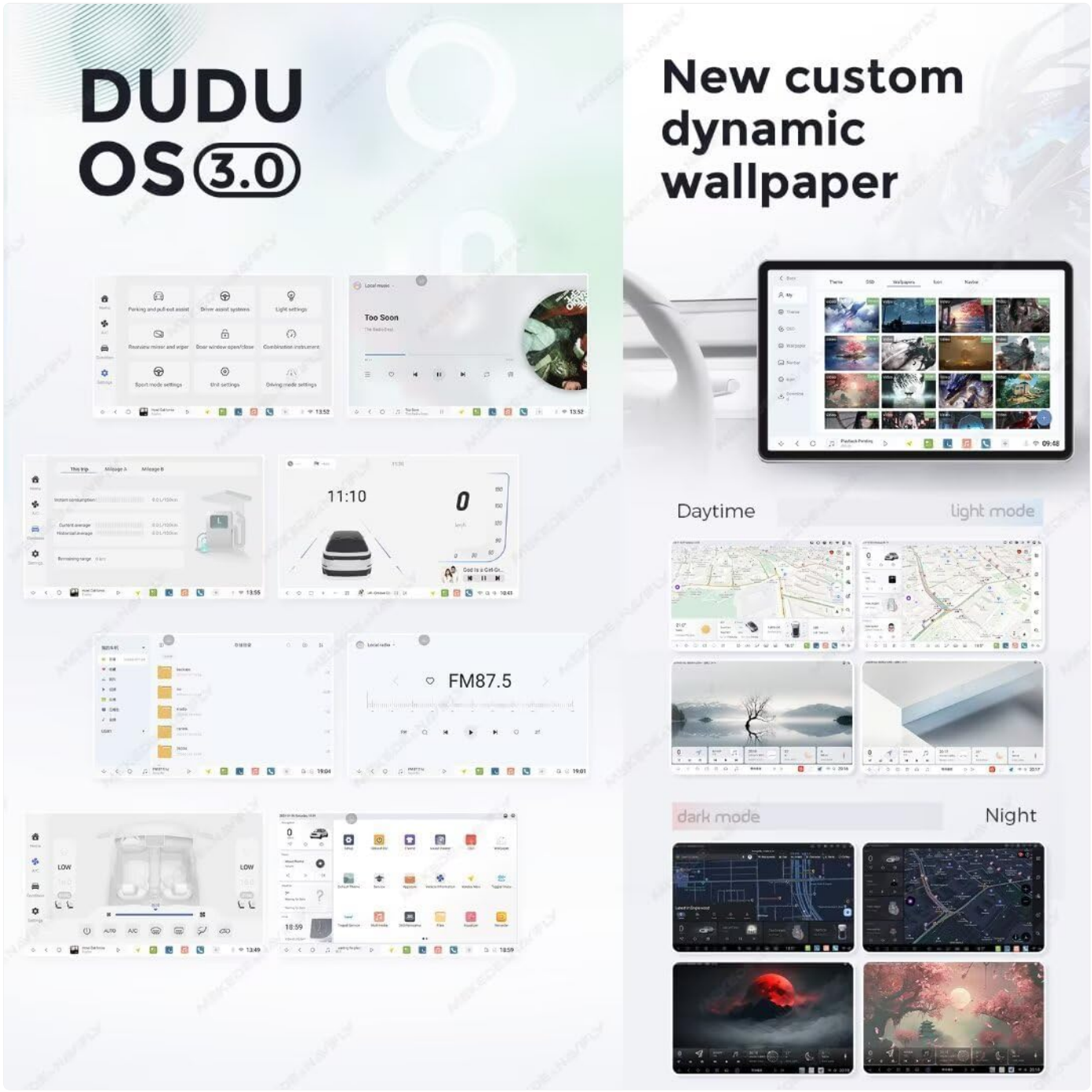


Figure 5.2: Screenshots showcasing the DUDU OS 3.0 interface, including various application screens and options for custom dynamic wallpapers and day/night modes.

5.2 Wireless CarPlay & Android Auto:

The unit supports both wireless and wired CarPlay for iPhones and Android Auto for Android devices.

1. Ensure Bluetooth and Wi-Fi are enabled on your smartphone.
2. On the DUDUAUTO DUDU7 unit, open the CarPlay or Android Auto application.

3. Follow the on-screen prompts to pair your device via Bluetooth. Once paired, the system will automatically connect for wireless CarPlay/Android Auto.
4. For wired connection, connect your smartphone to one of the USB ports using a compatible cable.

5.3 Bluetooth Connectivity:

Pair your smartphone via Bluetooth for hands-free calling and audio streaming.

1. Go to the Bluetooth settings on the DUDUAUTO DUDU7 unit.
2. Enable Bluetooth on your smartphone and search for available devices.
3. Select the DUDUAUTO DUDU7 unit from the list on your phone and confirm the pairing code.
4. Once connected, you can make/receive calls and stream music.

5.4 4G LTE & Wi-Fi:

Access the internet via a 4G SIM card or by connecting to a Wi-Fi network.

- **4G LTE:** Insert a compatible 4G SIM card into the designated slot (if available and configured). The unit will automatically connect to the mobile network.
- **Wi-Fi:** Go to Settings > Network & Internet > Wi-Fi. Select your desired Wi-Fi network and enter the password to connect.

5.5 Audio Settings (DSP):

Utilize the built-in AKM7739 DSP with Velvet Audio Technology for advanced sound customization.

1. Access the 'Sound' or 'DSP' application from the main menu.
2. Adjust equalizer settings, balance, fader, subwoofer levels, and sound effects to personalize your audio experience.

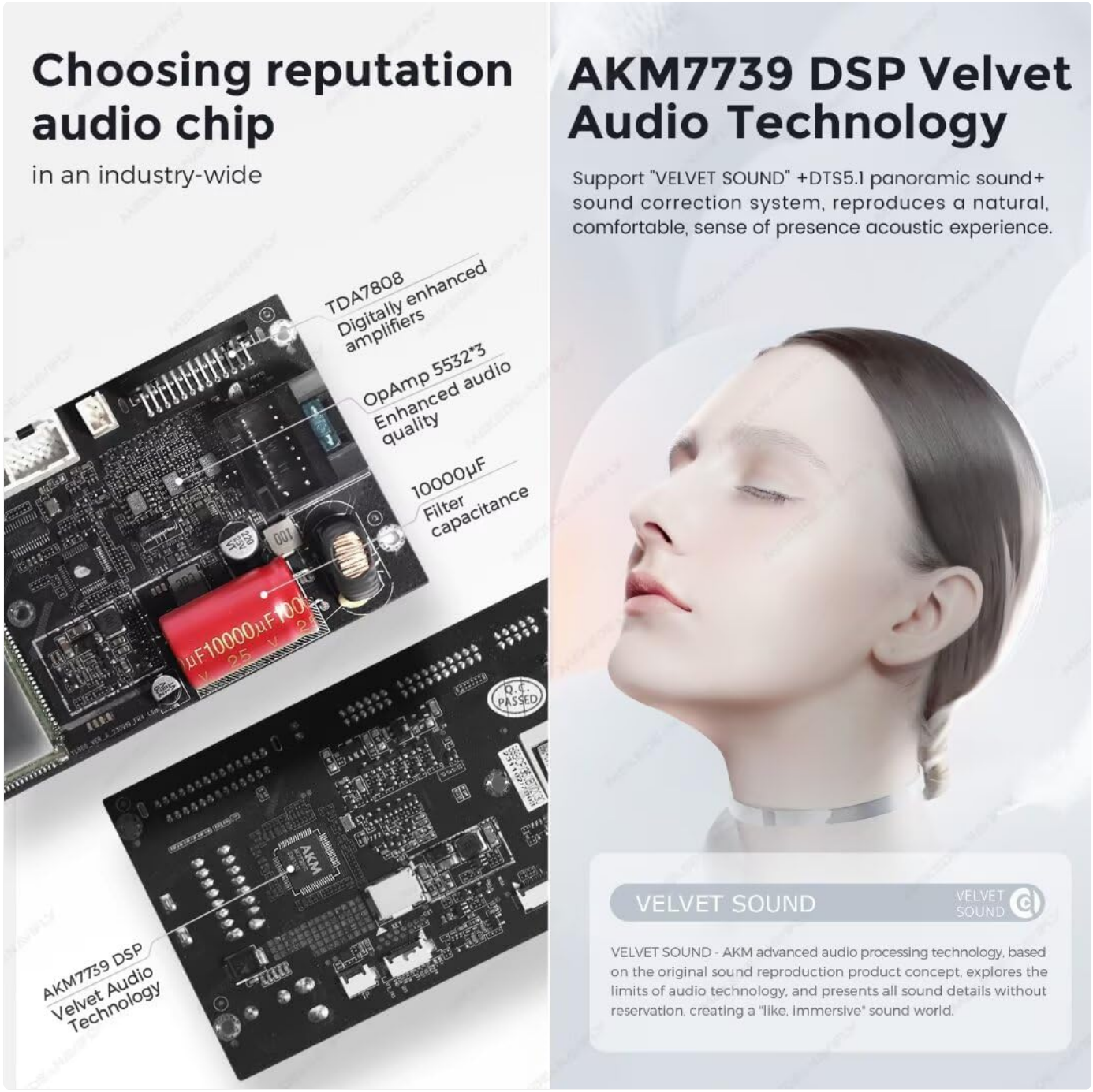


Figure 5.3: Illustration detailing the AKM7739 DSP Velvet Audio Technology and TDA7808 digitally enhanced amplifier components, emphasizing their role in delivering high-quality audio.

6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your DUDUAUTO DUDU7 car stereo.

6.1 Cleaning:

- Use a soft, lint-free cloth to gently wipe the touch screen and unit surface.
- For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid harsh chemicals or abrasive materials.
- Do not spray cleaning solutions directly onto the unit.

6.2 Software Updates:

- Periodically check for software updates through the unit's settings menu (Settings > About device > System update).

- Ensure a stable internet connection during updates. Do not interrupt the update process.

7. Troubleshooting

This section addresses common issues you might encounter. If the problem persists, contact customer support.

7.1 No Power:

- Check the vehicle's fuse box for any blown fuses related to the car stereo.
- Ensure all power cables are securely connected to the unit and the vehicle's wiring harness.
- Verify the vehicle's battery is charged and properly connected.

7.2 No Sound:

- Check the volume level on the unit and ensure it is not muted.
- Verify speaker connections are secure and correctly wired.
- Ensure the correct audio source is selected (e.g., Radio, Bluetooth, CarPlay).
- If using external amplifiers, check their power and connections.

7.3 GPS Signal Issues:

- Ensure the GPS antenna is properly connected and positioned in an area with a clear view of the sky (e.g., on the dashboard, away from metal obstructions).
- Verify GPS settings in the unit are correctly configured.

7.4 Bluetooth/CarPlay/Android Auto Connectivity Problems:

- Ensure Bluetooth and Wi-Fi are enabled on both the unit and your smartphone.
- Delete previous pairings from both devices and attempt to re-pair.
- Restart both the unit and your smartphone.
- For wired connections, try a different USB cable.

8. Warranty & Support

8.1 Warranty Information:

The MekedeTech DUDUAUTO DUDU7 Car Stereo Dash Kit 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 modifications.
Please retain your proof of purchase for warranty claims.

8.2 Customer Support:

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact MekedeTech customer support through the retailer where the product was purchased or visit the official MekedeTech website for contact information.

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.

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