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MekedeTech DUDU6-12.3A

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Model: DUDU6-12.3A

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your MekedeTech DUDUAUTO DUDU6 Double Din Universal HD Screen Android 13 Car Radio Multimedia Player. Please read this manual thoroughly before using the device to ensure proper functionality and safety.

The DUDUAUTO DUDU6 is a state-of-the-art car head unit featuring a 12.3-inch QLED display, Android 13 operating system, and advanced connectivity options including Wireless Carplay and Android Auto. It is designed to enhance your in-car entertainment and navigation experience.

PRODUCT OVERVIEW

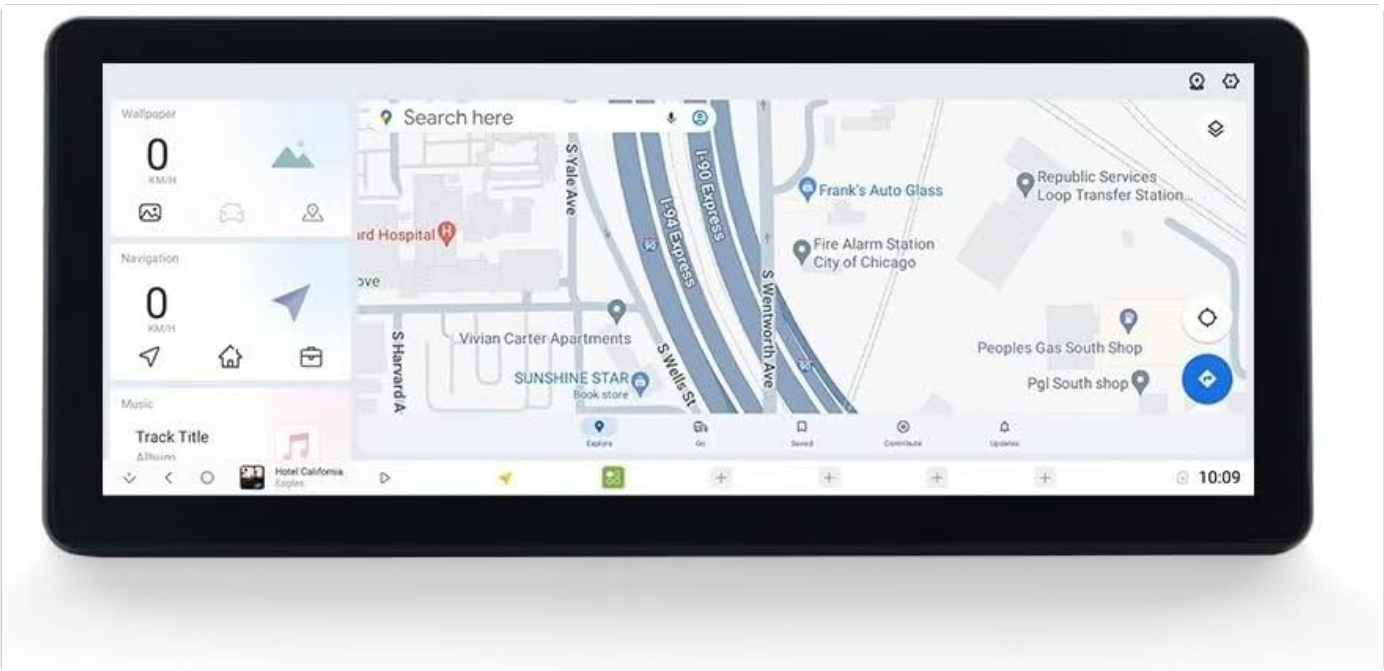


Figure 1: Front view of the MekedeTech DUDUAUTO DUDU6 head unit, showing its 12.3-inch display with a navigation map and media controls.

The MekedeTech DUDUAUTO DUDU6 is a universal double DIN car multimedia player. Key features include:

- **Display:** 12.3-inch 1920x720 QLED screen for clear visuals.
- **Operating System:** Android 13 with DUDU OS 3.0 for a customizable user experience.
- **Performance:** 6GB RAM and 64GB ROM, powered by an 8-Core UIS7862S processor.
- **Connectivity:** Wireless Carplay and Android Auto support for seamless smartphone integration.
- **Audio:** Qualcomm 3031 Bluetooth 5.1 chip for high-quality audio streaming and calls, TDA7850 power amplifier, AKM7738 DSP, Optical + Coaxial, RCA 5.1 Channel Outputs.
- **Networking:** Supports 5G WiFi (802.11a/b/g/n/ac).
- **Dual Screen Support:** Ability to navigate on the front screen and watch movies on a rear screen simultaneously via a TYPE-C connection (cable sold separately).

SETUP AND INSTALLATION

Professional installation is recommended for this device. Ensure the vehicle's power is disconnected before beginning installation.

Package Contents

Verify that all components are present before installation. *(Note: Specific package contents may vary. Refer to your product packaging for an exact list.)*

- MekedeTech DUDUAUTO DUDU6 Head Unit
- Power Harness
- GPS Antenna
- USB Cables
- External Microphone
- User Manual (this document)

Wiring Diagram

Connect the power harness, speaker wires, and other accessory cables according to the provided wiring diagram *(not included in this digital manual, refer to physical diagram provided with product)*. Ensure correct polarity for all connections to prevent damage.

Mounting the Head Unit

The DUDUAUTO DUDU6 is a double DIN unit. Securely mount the head unit into your vehicle's dashboard using the appropriate mounting brackets and screws. Ensure it is firmly seated to prevent vibration and movement during driving.

Support the following sizes of machines, you can choose according to your needs



The 12.3-inch screen comes in three different styles

Figure 2: Illustration of different screen sizes and their corresponding dimensions, including the 12.3-inch display, to assist with fitment

considerations.

Initial Power On

After installation, reconnect the vehicle's power. The unit should power on automatically. Follow the on-screen prompts for initial setup, including language selection, time zone, and Wi-Fi connection.

OPERATING INSTRUCTIONS

User Interface (DUDU OS 3.0)

The DUDU OS 3.0 offers a customizable interface with multiple layout options. Swipe left or right on the home screen to access different widgets and applications. Tap on icons to launch applications.

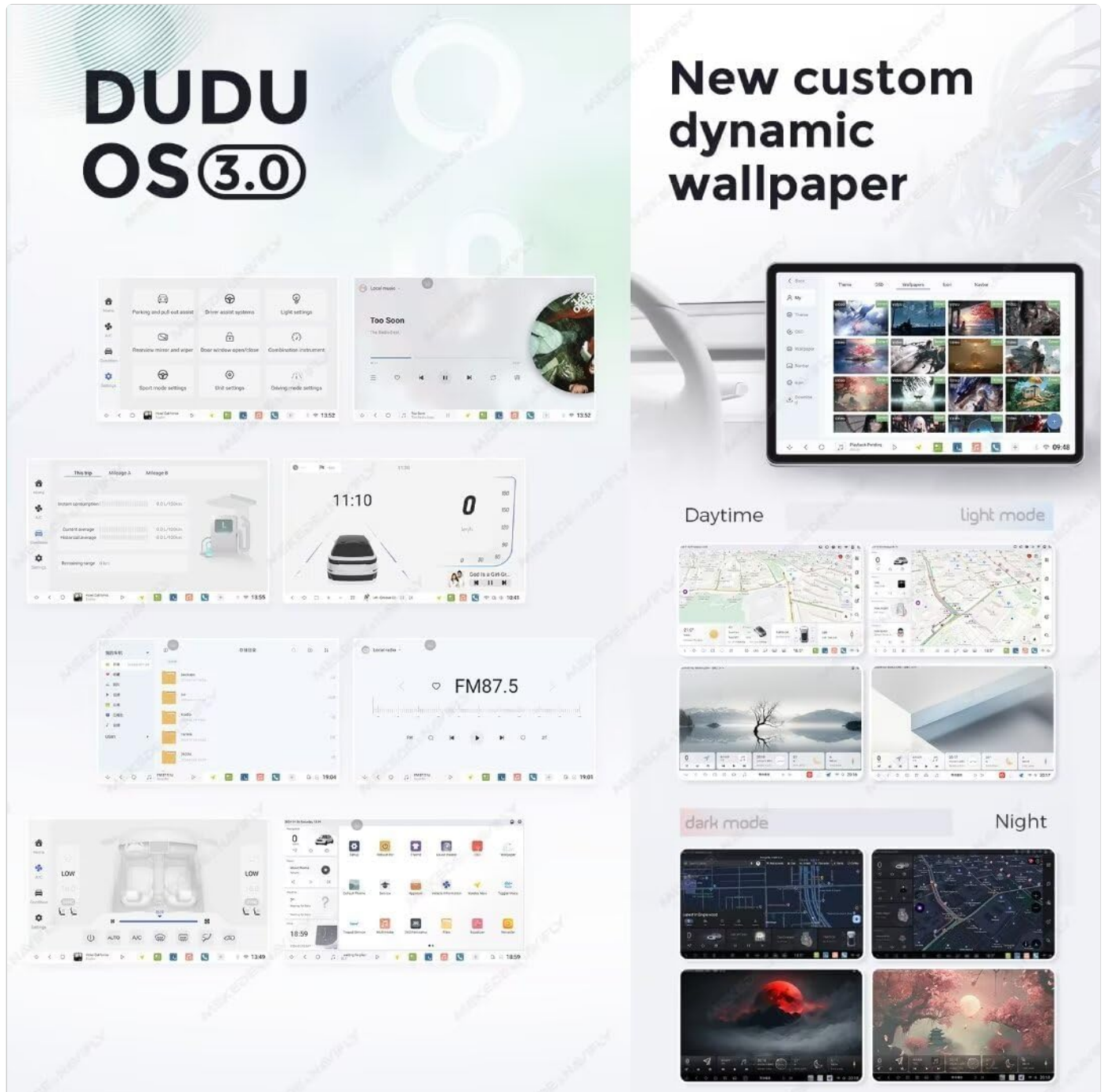


Figure 3: Examples of the DUDU OS 3.0 user interface, showcasing dynamic wallpapers and different application layouts for customization.

Wireless Carplay & Android Auto

To use Wireless Carplay or Android Auto:

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 phone via Bluetooth. Once paired, the system will automatically establish a Wi-Fi connection for Carplay/Android Auto.
4. You can now access your phone's compatible apps, navigation, calls, and messages directly from the head unit's display.

Bluetooth Connectivity (Qualcomm 3031 BT 5.1)

For general Bluetooth audio streaming and hands-free calling:

1. Go to the Bluetooth settings on the head unit.
2. Enable Bluetooth and make the device discoverable.
3. On your smartphone, search for available Bluetooth devices and select "DUDUAUTO DUDU6".
4. Confirm the pairing code on both devices.
5. Once connected, you can stream music, make calls, and access phone contacts.

Navigation

The unit supports various navigation applications. Ensure the GPS antenna is properly installed for optimal signal reception. You can download and use your preferred navigation apps from the Google Play Store (requires internet connection).

Multimedia Playback

The DUDUAUTO DUDU6 supports playback from multiple sources:

- **USB:** Connect USB drives to the available USB 2.0 ports for audio and video playback.
- **Bluetooth Audio:** Stream audio from your paired smartphone.
- **Radio:** Utilize the built-in TDA7708 radio tuner for FM/AM stations.
- **Online Streaming:** Access online music and video streaming services via Wi-Fi.

MAINTENANCE

Screen Cleaning

Use a soft, lint-free cloth slightly dampened with water or a screen cleaning solution specifically designed for electronic displays. Do not use abrasive cleaners or solvents.

Software Updates

Periodically check for software updates to ensure optimal performance and access to new features. Updates can typically be found in the system settings menu or on the MekedeTech official website. Follow the on-screen instructions carefully during the update process.

General Care

- Avoid exposing the unit to extreme temperatures or direct sunlight for prolonged periods.
- Do not spill liquids on the unit.
- Keep the USB ports free from dust and debris.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	Incorrect wiring; Blown fuse; Vehicle power issue.	Check power connections and vehicle fuses. Consult a professional installer if necessary.
No sound.	Volume too low; Mute enabled; Speaker wiring issue; Incorrect audio output setting.	Increase volume. Check mute status. Verify speaker connections. Ensure correct audio output is selected in settings.
Carplay/Android Auto not connecting.	Bluetooth/Wi-Fi off on phone; Incorrect pairing; App issue.	Ensure Bluetooth and Wi-Fi are on. Re-pair the device. Restart phone and head unit. Update Carplay/Android Auto apps on phone.
GPS signal weak or inaccurate.	GPS antenna not properly installed or obstructed.	Ensure GPS antenna has a clear view of the sky and is securely connected.
Touchscreen unresponsive.	Temporary software glitch; Screen damage.	Restart the head unit. If issue persists, contact customer support.

If you encounter problems not listed here or if the suggested solutions do not resolve the issue, please contact MekedeTech customer support.

SPECIFICATIONS

	DUDU6			DUDU7			
RAM/ROM	6+64	8+128	8+256	6+64	8+128	12+256	12+512
CPU	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 Gan1*1 USB 2.0*3			
Power amplifier	TDA7850			TDA7808 Digital enhanced Class AB power amplifier			
DSP	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 OS3.0	
Audio output	Fiber + coaxial RCA5.1 channel output	
BT chip	BT5.0 Qualcomm 3031 supports the aptx HD protocol	
Filter capacitance	10000μF	
Screen	9.5" / 10.36" / 11.5" : 2K 2000*1200 13" : 1920*1200 12.3" : 1920*720	
CP/AA	Support wired + wireless Car-play / Android AUTO	
Network	4G Lte external card slot + 5G WIFI	
Radio	TDA7708	
Voice Control (optional)	This feature requires the purchase of voice control software	
Supporting accessories (optional)	360° panoramic camera, DVR, front + rear view camera, TPMS, BT SWC, atmosphere light HUD head-up display, rear window LED screen, rear entertainment screen, thermometer, etc Note: Accessories are not included and are purchased separately.	

Figure 4: Detailed comparison of technical specifications for DUDU6 and DUDU7 models, highlighting key differences in CPU, memory, and audio features.

Feature	Specification (DUDU6-12.3A)
Model Number	DUDU6-12.3A
Operating System	Android 13
CPU	8 Core UIS7862S Customized version A55 2.0Ghz 12nm processor
Memory (RAM/ROM)	6GB RAM / 64GB ROM (eMMC 5.1)
Display Size	12.3 Inches
Display Resolution	1920x720
Display Type	QLED
Bluetooth Chip	Qualcomm 3031 (BT 5.1, supports aptX HD)

Feature	Specification (DUDU6-12.3A)
Wi-Fi Type	802.11 a/b/g/n/ac (Supports 5G Wi-Fi)
GPS	Dual Band 3 modes L1 B1 E1
Microphone	Digital Noise Cancellation Microphone
USB Ports	USB2.0*3
Power Amplifier	TDA7850 Digital AB type
DSP	AKM7738
Audio Output	Optical + Coaxial, RCA 5.1 Channel Outputs
Radio IC	TDA7708
Work Voltage	9V~16V
Carplay/Android Auto	Wired and Wireless Support
Voice Command	Buttons, Keyboard, Microphone, Touchscreen

WARRANTY AND SUPPORT

MekedeTech products are designed for reliability and performance. For warranty information, please refer to the warranty card included with your product or visit the official MekedeTech website. Keep your purchase receipt as proof of purchase.

Customer Support

If you require technical assistance, troubleshooting, or have questions regarding your DUDUAUTO DUDU6 head unit, please contact MekedeTech customer support. Contact information can typically be found on the official website or on your product packaging.

Manufacturer: Shenzhen Mekede Technology Co.,Ltd

First Available: August 5, 2024

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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