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› User Manual for MekedeTech DUDUAUTO Car Multimedia Head Unit

MekedeTech DUDU7-8-128-11.5

MekedeTech DUDUAUTO Car Multimedia Head Unit User Manual

Model: DUDU7-8-128-11.5

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MekedeTech DUDUAUTO Car Multimedia Head Unit. Designed with an 11.5-inch 2K touch screen, Android 13 OS, and advanced features like built-in 360 camera chip support, this unit offers a superior in-car entertainment and navigation experience. Please read this manual thoroughly before using the product to ensure proper function and safety.

PACKAGE CONTENTS

Before installation, please verify that all components listed below are included in your package:

Package Contents



Machine



MIC



RCA Cable



Reversing camera



Audio Out



Fakra 4G Antenna



Fakra GPS Antenna



USB Plug x3

Figure 1: Included Package Components

- Main Head Unit (Machine)
- Microphone (MIC)
- RCA Cable Set
- Reversing Camera Input Cable
- Audio Out Cable
- Fakra 4G Antenna
- Fakra GPS Antenna
- USB Plugs (x3)

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your DUDUAUTO head unit. It is highly recommended that installation be performed by a qualified professional to avoid damage to the unit or your vehicle's electrical system.

Pre-Installation Checklist:

1. Ensure the vehicle's ignition is off and the battery is disconnected.
2. Verify compatibility with your vehicle's dash opening and wiring harness. Additional harnesses or bezels may be required (not included).
3. Identify all necessary wiring connections (power, ground, speakers, accessories, camera inputs, etc.).

Installation Steps (General Guide):

1. Carefully remove the existing car stereo or dash panel.
2. Connect the main power harness, speaker wires, and other essential connections to the head unit.
3. Connect the GPS antenna and position it for optimal signal reception (e.g., on the dashboard with a clear view of the sky).
4. Connect the 4G antenna for network connectivity.
5. If installing a reversing camera, route its cable to the head unit and connect it to the designated input.
6. Connect the external microphone for clear voice communication.
7. Secure the head unit in the dash opening.
8. Reconnect the vehicle's battery and test all functions before fully reassembling the dash.

Note: For specific vehicle models, additional adapters or modifications may be necessary. Refer to your vehicle's service manual or consult a professional installer.

OPERATING INSTRUCTIONS

Your DUDUAUTO head unit runs on Android 13, offering a familiar and intuitive interface. The 11.5-inch 2K touch screen provides a clear and responsive user experience.

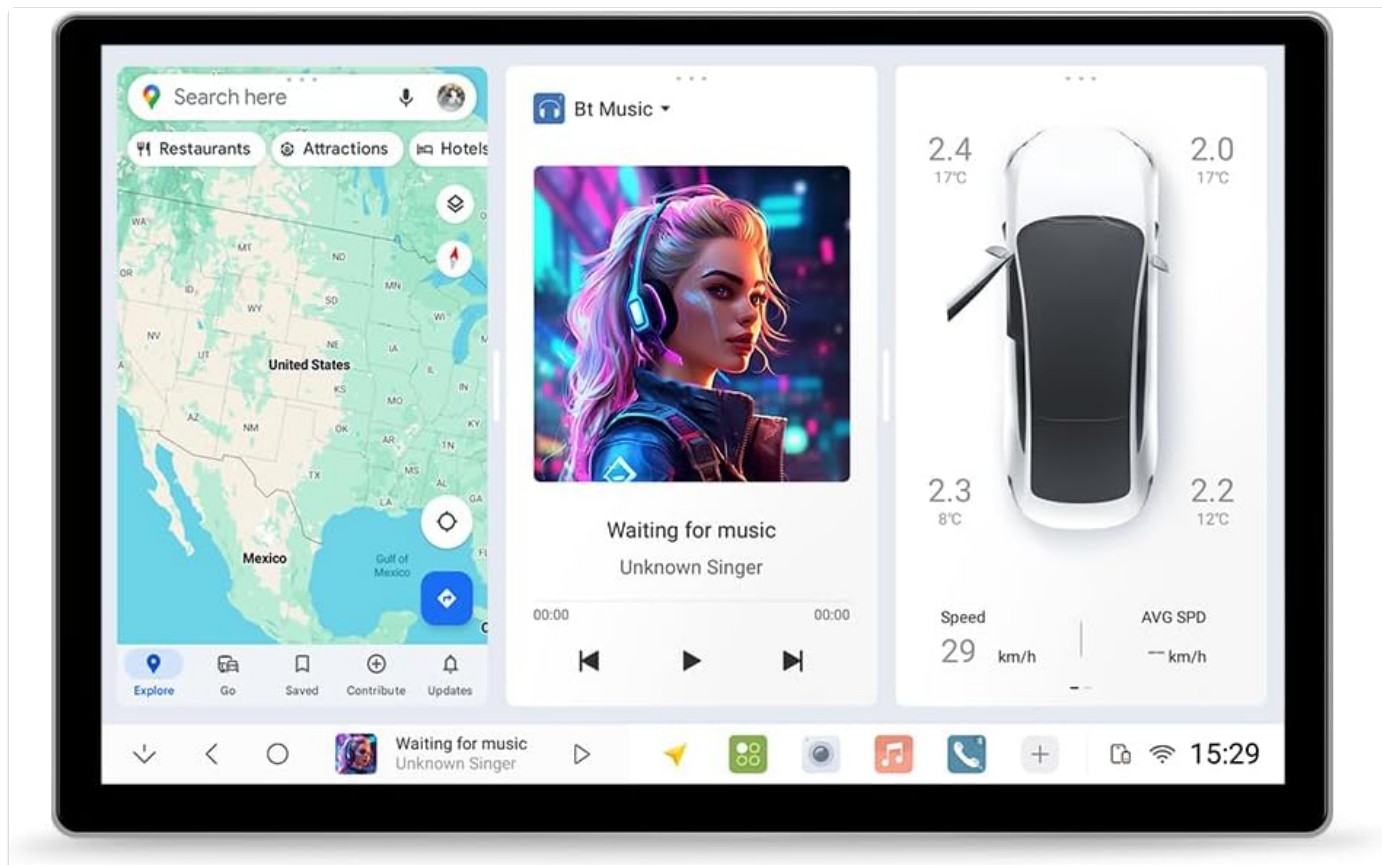


Figure 2: Main User Interface

Basic Navigation:

- **Home Screen:** Access frequently used apps and widgets. Swipe left/right to navigate between screens.
- **App Drawer:** Tap the app icon to view all installed applications.
- **Settings:** Access system settings, network configurations, display options, and audio adjustments.

Wireless/Wired CarPlay & Android Auto:

The unit supports both wireless and wired CarPlay and Android Auto, allowing seamless integration with your smartphone.

- **Wireless Connection:** Enable Bluetooth and Wi-Fi on your phone. Pair your phone with the head unit via Bluetooth. Follow the on-screen prompts to initiate CarPlay or Android Auto.
- **Wired Connection:** Connect your phone to one of the USB ports using a certified USB cable. The system should automatically detect and launch CarPlay or Android Auto.

Bluetooth Connectivity (Qualcomm 3031 Chip):

The integrated Qualcomm 3031 Bluetooth 5.0 chip ensures stable and high-quality audio streaming with aptX HD protocol support.

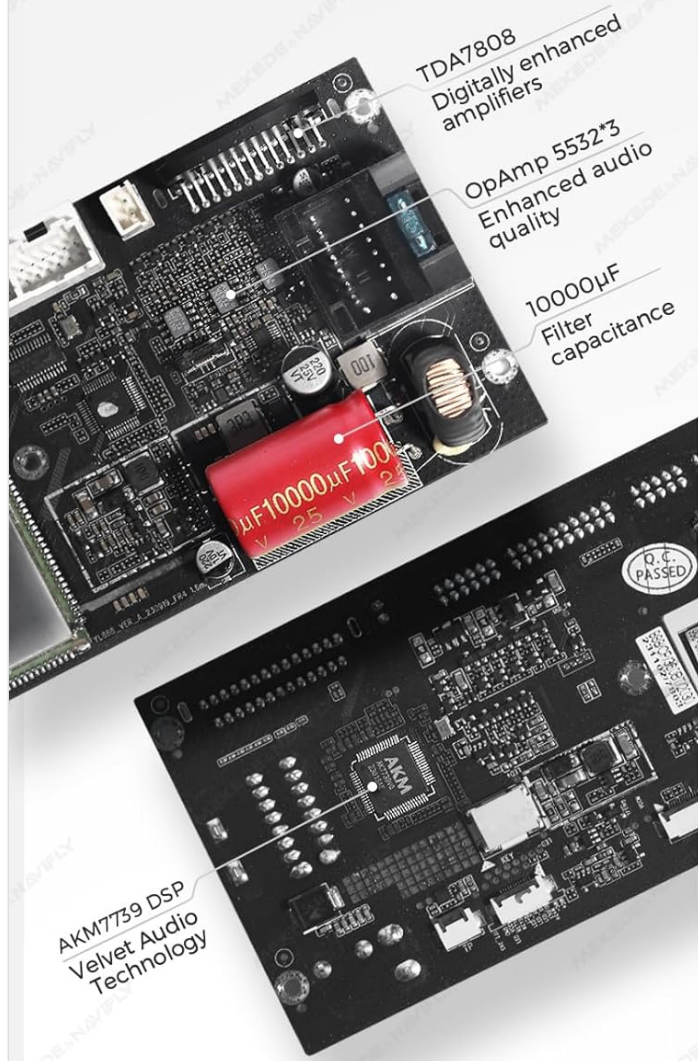
- **Pairing:** Go to Bluetooth settings on the head unit. Enable Bluetooth on your phone and search for available devices. Select the head unit from the list and confirm the pairing code.
- **Functions:** Make/receive calls, stream music, and access phone contacts. The Digital Noise Cancelling Mic ensures clear voice transmission even at high speeds.

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.

Figure 3: Advanced GPS and Microphone Features

GPS Navigation (Dual Band 6-mode):

Utilizes a Dual Band 6-mode positioning chip (L1 + L5 joint positioning) for enhanced accuracy and speed, supporting lane-level navigation.

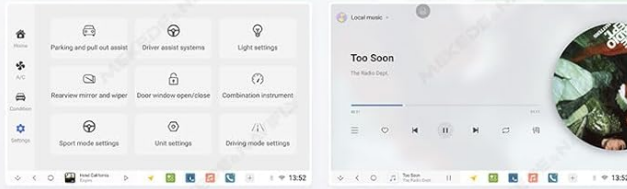
- **Using Navigation:** Open your preferred navigation app (e.g., Google Maps). Ensure the GPS antenna is properly installed and has a clear view of the sky for optimal signal.

Audio and DSP (AKM7739 Velvet Audio Technology):

The unit features a TDA7808 Digital AB type power amplifier and AKM7739 DSP with Velvet Audio Technology for superior sound quality, including Optical + Coaxial and RCA 5.1 Channel Outputs.

DUDU OS 3.0

New custom dynamic wallpaper



Daytime

light mode



dark mode

Night



Figure 4: Internal Audio Components and DSP

- **Sound Settings:** Access the DSP settings through the audio menu to customize equalization, balance, fader, and surround sound effects.

DUDU OS 3.0 Features:

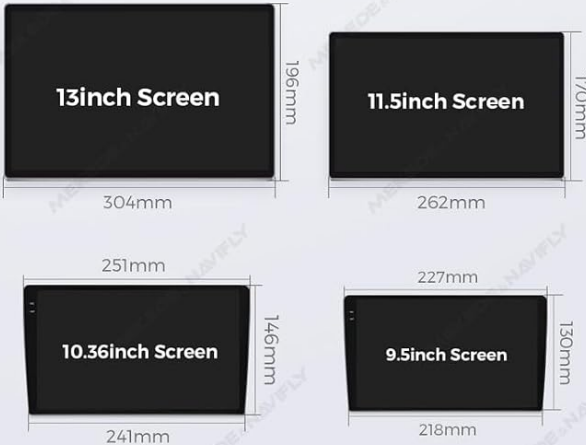
Experience the customized DUDU OS 3.0 with dynamic wallpapers and an optimized interface for automotive use.

	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			
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, AR DVR, rear view camera, USB 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.						

Different screen sizes can be installed on the same model



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



Different screen sizes can be installed on the same model



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

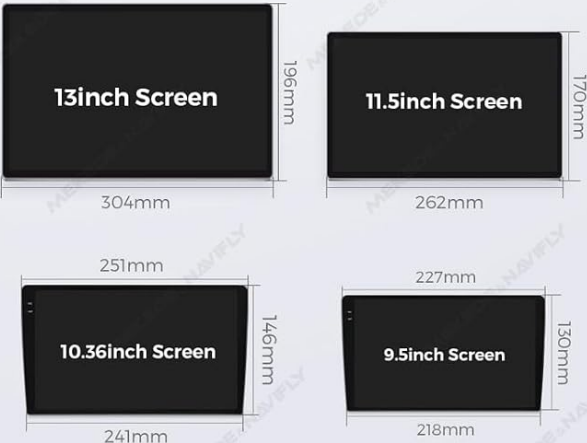


Figure 5: DUDU OS 3.0 Interface and Customization

MAINTENANCE

To ensure the longevity and optimal performance of your MekedeTech DUDUAUTO head unit, follow these maintenance guidelines:

- **Screen Cleaning:** Use a soft, lint-free cloth slightly dampened with water or a screen cleaner specifically designed for electronics. Avoid abrasive materials or harsh chemicals.
- **Software Updates:** Periodically check for and install software updates provided by MekedeTech to ensure the latest features and bug fixes.
- **Temperature Control:** Avoid exposing the unit to extreme temperatures. While designed for automotive environments, prolonged exposure to direct sunlight or extreme cold can affect performance.
- **Ventilation:** Ensure the unit's ventilation openings are not blocked to prevent overheating. The unit includes a fan that activates under stress.

TROUBLESHOOTING

If you encounter issues with your head unit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on	Loose power connection, blown fuse, vehicle battery issue.	Check all power connections. Inspect vehicle fuses. Ensure vehicle battery is charged.
No sound output	Muted volume, incorrect audio source, loose speaker wires, DSP settings.	Check volume level and mute status. Select correct audio source. Verify speaker wire connections. Reset DSP settings if necessary.
GPS signal weak or inaccurate	GPS antenna improperly placed or disconnected, environmental interference.	Ensure GPS antenna has a clear view of the sky and is securely connected. Avoid placing near metal objects.
Bluetooth connection issues	Phone not discoverable, incorrect pairing, interference.	Ensure phone's Bluetooth is on and discoverable. Delete previous pairings and re-pair. Move phone closer to the unit.
CarPlay/Android Auto not launching	Incorrect USB cable, phone settings, app issues.	Use a certified USB cable. Check phone's CarPlay/Android Auto settings. Restart phone and head unit.

If the problem persists after attempting these solutions, please contact MekedeTech customer support for further assistance.

SPECIFICATIONS

Detailed technical specifications for the MekedeTech DUDUAUTO DUDU7-8-128-11.5 Head Unit:



Figure 6: Performance Comparison and Read Speed

Feature	Specification
Model	DUDU7-8-128-11.5
Operating System	Android 13
CPU	8 Core UIS7870 Customized version A76 2.7Ghz 6nm processor
Memory (RAM/ROM)	8GB RAM / 128GB ROM (UFS 3.1 Read data 1700M+)
Display Size	11.5 inches
Display Resolution	2K (2000x1200)
GPS	Dual Band 6 mode L1 L5 B1 B2a E1 E5a
Microphone	Digital Noise Cancellation Microphone

Feature	Specification
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 Support 5G WIFI
Radio IC	TDA7708
Work Voltage	9V~16V
CarPlay/Android Auto	Support Wired and Wireless
360 Panorama Support	Yes (requires additional 360 chip and extra payment)

WARRANTY AND SUPPORT

MekedeTech provides a standard warranty for its products. Please refer to the warranty card included with your purchase or visit the official MekedeTech website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact MekedeTech customer service through their official channels. Provide your product model number (DUDU7-8-128-11.5) and purchase details for faster service.

Contact information can typically be found on the manufacturer's website or in your purchase documentation.

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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