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MekedeTech DUDU4

MekedeTech DUDUAUTO DUDU4 Car Multimedia Player User Manual

Model: DUDU4-4-32

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your MekedeTech DUDUAUTO DUDU4 Car Multimedia Player. This unit is designed for Mercedes Benz M-Class W164 and GL-Class X164 (ML GL) models from 2005-2009. Please read this manual thoroughly before using the product to ensure proper function and safety.

Product Overview

The DUDUAUTO DUDU4 is an Android 13-based car head unit featuring an 8-core UIS8581A CPU, 4GB RAM, and 32GB ROM. It offers a 9.5-inch HD in-cell screen with 1280x720 resolution, wireless Carplay and Android Auto, Bluetooth 5.0, 4G LTE connectivity, and support for steering wheel controls. It integrates seamlessly into compatible Mercedes Benz vehicles, upgrading the in-car entertainment and navigation experience.



Image: Comparison of the car dashboard before and after installing the DUDUAUTO DUDU4 multimedia player, showing the integrated display.



Image: Close-up of the UIS8581A 8-Core CPU chip, highlighting its role as the "Smart Cockpit chip" for powerful performance.

Setup and Installation

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

Component Identification



Image: Diagram illustrating the rear panel connections of the DUDU4 unit, including ports for reverse video, USB, radio antenna, WiFi, GPS antenna, 4G antenna, and power cable.

1. **Power Cable (G):** Connect to the vehicle's power harness.
2. **Radio Antenna (8):** Connect the vehicle's radio antenna.
3. **WiFi Antenna (7):** Connect the provided WiFi antenna for wireless internet access.
4. **GPS Antenna (6):** Connect the provided GPS antenna for navigation functionality.
5. **4G Antenna (4):** Connect the provided 4G antenna for cellular data connectivity.
6. **Reverse Video Cable (C):** Connect to the vehicle's reverse camera input.
7. **USB Ports (D, E):** Connect external USB devices. The unit includes 6-pin (D) and 4-pin (E) USB ports.
8. **Protocol Serial Use with Can-bus (F):** Connect the CAN-bus decoder for steering wheel controls and vehicle data integration.
9. **360 Panoramic Device (A):** Optional connection for a 360-degree panoramic camera system.
10. **RCA Cable (B):** Connect the RCA cable harness for audio/video input/output, including the 4G card slot.

Initial Power-On

After all connections are securely made, reconnect the vehicle's power. The unit should power on automatically or by pressing the power button. Follow the on-screen prompts for initial setup, including language selection and time zone.

Operating Instructions

User Interface and Navigation

The DUDUAUTO DUDU4 operates on Android 13 with the DUDU OS 3.0 interface. Navigate through applications and settings using the touchscreen. The system supports custom dynamic wallpapers and offers a user-friendly layout for various functions. The high-definition in-cell screen ensures clear and detailed visuals for all content.



Image: A visual representation of the 9.5-inch in-cell screen with 1280x720 resolution, emphasizing its clarity for images and videos.

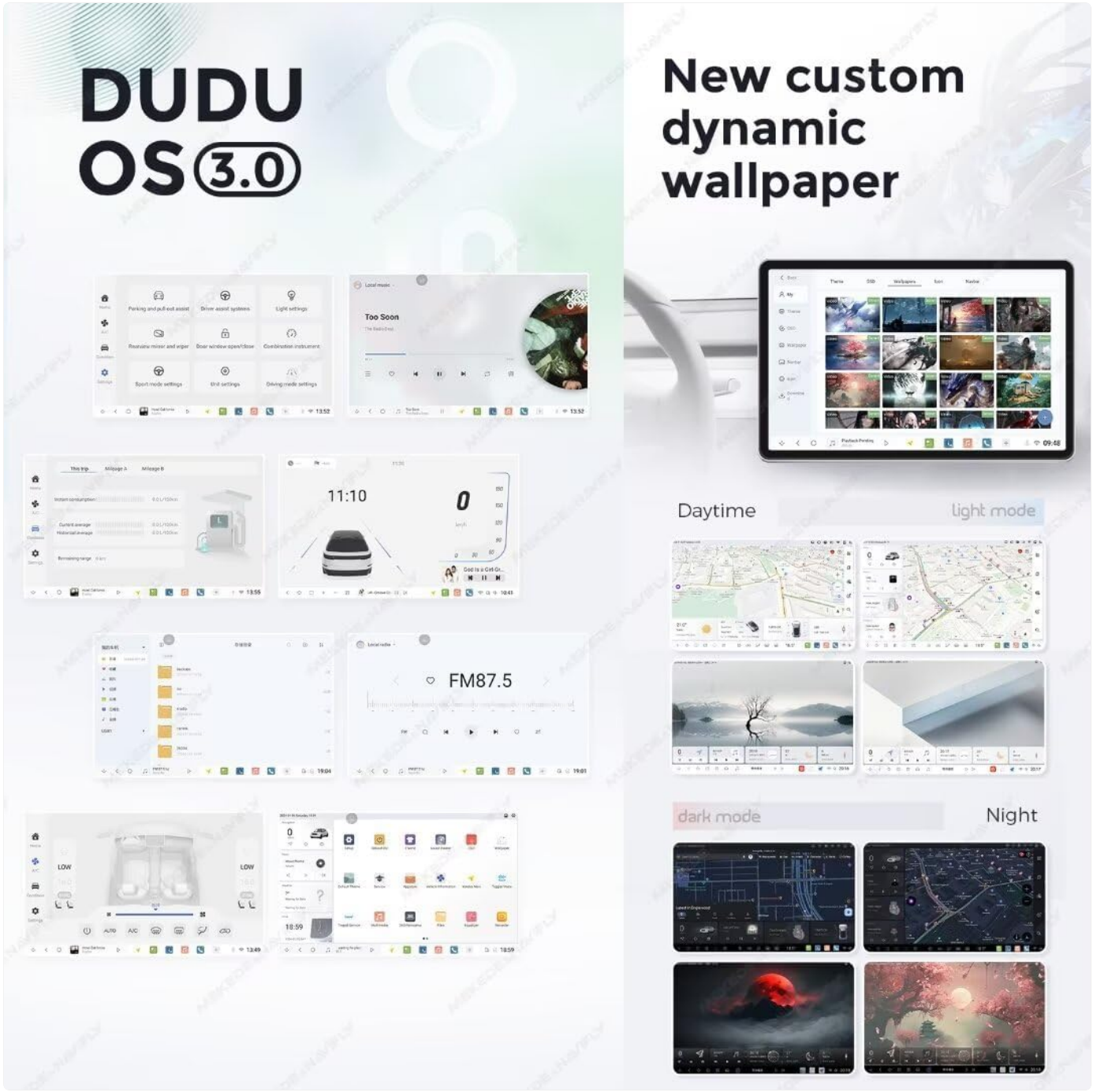


Image: Multiple screenshots showcasing the DUDU OS 3.0 user interface, including navigation, media playback, settings, and dynamic wallpaper options in both day and night modes.

Wireless Carplay and Android Auto

The unit supports both wireless and wired Carplay (for iOS devices) and Android Auto (for Android devices). This allows for seamless integration of your smartphone's features, including navigation, calls, messages, and music, directly on the head unit's display.



Image: Visual guide demonstrating how to connect to Wireless Carplay (via Bluetooth) and Wired Android Auto (via USB cable), showing the respective icons and connection steps.

- **Wireless Carplay (iOS):** Connect your iPhone via Bluetooth. Once paired, select "Car Link" on the head unit to initiate Carplay.
- **Wired Android Auto (Android):** Connect your Android phone via a USB cable. Select "Car Link" on the head unit to initiate Android Auto.

Bluetooth 5.0 Connectivity

Equipped with a Qualcomm 3031 Bluetooth 5.0 chip, the unit provides stable and high-quality audio streaming and hands-free calling. Pair your smartphone to the head unit via Bluetooth settings to access these features.

4G LTE and WiFi

Insert a 4G SIM card into the designated slot (part of the RCA cable harness) to enable 4G LTE internet access. Alternatively, connect to a WiFi hotspot using the built-in WiFi module (802.11a/b/g/n/ac, supports 5G WiFi). This allows for online navigation, app downloads, and streaming services.

Steering Wheel Controls

The unit retains all original steering wheel control functions, allowing you to safely adjust volume, change tracks, and manage calls without taking your hands off the wheel. This functionality is enabled through the CAN-bus protocol serial connection.

Navigation

The integrated GPS module supports 3-mode L1 B1 E1 GPS for accurate positioning. Utilize pre-installed navigation apps or download your preferred navigation software from the app store.

Audio Features

The DUDU4 features a TDA7838 power amplifier and AK7604 DSP for enhanced audio quality. Adjust equalizer settings and audio preferences through the system's sound settings.

Maintenance

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the screen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid harsh chemicals.
- **Software Updates:** Periodically check for system software updates through the unit's settings menu to ensure optimal performance and access to new features.
- **General Care:** Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.

Troubleshooting

- **No Power:**
  - Check all power cable connections.
  - Verify the vehicle's fuse for the head unit is intact.
- **No Sound:**
  - Ensure volume is not muted or set to minimum.
  - Check speaker wire connections.
  - Verify audio output settings in the system.
- **GPS Signal Loss:**
  - Ensure the GPS antenna is properly connected and has a clear view of the sky.
  - Check GPS settings within the system.
- **Carplay/Android Auto Not Connecting:**
  - For wireless, ensure Bluetooth is enabled on your phone and paired with the head unit.
  - For wired, ensure the USB cable is securely connected and is a data-transfer cable.
  - Restart both the phone and the head unit.
- **Unit Freezes/Unresponsive:**
  - Perform a soft reset by pressing the reset button (if available) or by turning off the vehicle ignition and restarting.
  - If persistent, contact customer support.

Specifications

	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	Support voice control function		



Image: A detailed comparison table outlining specifications for DUDU4, DUDU5, DUDU6, and DUDU7 models, including 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, network, radio, and voice control.

MekedeTech DUDUAUTO DUDU4 Specifications

Feature	Specification
Model Number	DUDU4
Operating System	Android 13
CPU	8 Core UIS8581A
RAM	4GB
Memory Storage Capacity	32GB
Display Type	In-cell Screen, OLED
Display Resolution	1280x720
Touch Screen Type	Capacitive
GPS	3 mode L1 B1 E1
Microphone	Condenser MIC
USB Interface	USB2.0*3 (6-pin and 4-pin)
Power Amplifier	TDA7838
DSP	AK7604
Bluetooth Chip	BT5.0 (Qualcomm 3031)
WiFi Type	802.11a/b/g/n/ac (Support 5G WIFI)
Work Voltage	9V~16V
Carplay/Android Auto	Wired and Wireless
360 Panorama Support	Yes (optional system)
4G LTE Function	Yes (SIM card slot)
Radio IC	TDA4755
Human Interface Input	Buttons, Keyboard, Microphone, Touchscreen
Special Feature	Bluetooth, Bluetooth 5.1, Touchscreen, Wired Android Auto, Wireless CarPlay

Feature	Specification
Connectivity Technology	Wireless
Map Type	Worldwide

Warranty Information

The MekedeTech DUDUAUTO DUDU4 Car Multimedia Player 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

For technical assistance, troubleshooting, or warranty inquiries, please contact MekedeTech customer support. Refer to the product packaging or the official MekedeTech website for the most current contact information.
Online resources, including FAQs and software updates, may also be available on the manufacturer's website.

Ask a question about this manual

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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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