MekedeTech DUDU7-12-256-11.5

MekedeTech DUDUAUTO DUDU7 Car Multimedia Head Unit User Manual

Model: DUDU7-12-256-11.5

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your MekedeTech DUDUAUTO DUDU7 Car Multimedia Head Unit. Please read this manual thoroughly before using the device to ensure proper functionality and to maximize your user experience.
The DUDU7 is an advanced 11.5-inch IPS touch screen car radio stereo with intelligent navigation, featuring Android 13, 12GB RAM, and 256GB ROM for high performance and extensive capabilities.

2. Package Contents

Before installation, verify that all components are present in the package:

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



Figure 2.1: Included Package Contents

3. Setup and Installation

3.1 Pre-Installation Checks

- Ensure your vehicle's power is disconnected before beginning installation.
- Confirm compatibility with your vehicle's dashboard and wiring. The unit features a single DIN base with an adjustable mount for flexible positioning.

3.2 Wiring Connections

1. **Power Connection:** Connect the main power harness to your vehicle's power supply. Ensure correct polarity.
2. **RCA Cables:** Connect the provided RCA cables for audio output to external amplifiers or speakers if applicable.
3. **USB Connections:** Utilize the three USB ports for external devices such as USB drives or charging cables.
4. **Antennas:** Connect the Fakra 4G antenna for cellular data connectivity and the Fakra GPS antenna for navigation services.
5. **Microphone:** Connect the external microphone for clear voice communication and commands.

6. **Reversing Camera:** Connect your reversing camera to the designated input for automatic display when reversing.
7. **CANbus Integration:** If your vehicle supports CANbus, connect the appropriate harness to enable features like door status display and automatic headlight detection.

3.3 Mounting the Head Unit

Secure the head unit into your vehicle's dashboard using the appropriate mounting hardware. Adjust the screen position for optimal viewing and to avoid obstructing vehicle controls or vents.

4. Operating Instructions

4.1 Powering On and Initial Setup

After installation, turn on your vehicle's ignition. The head unit will power on automatically. Follow the on-screen prompts for initial setup, including language selection, time zone, and network configuration.

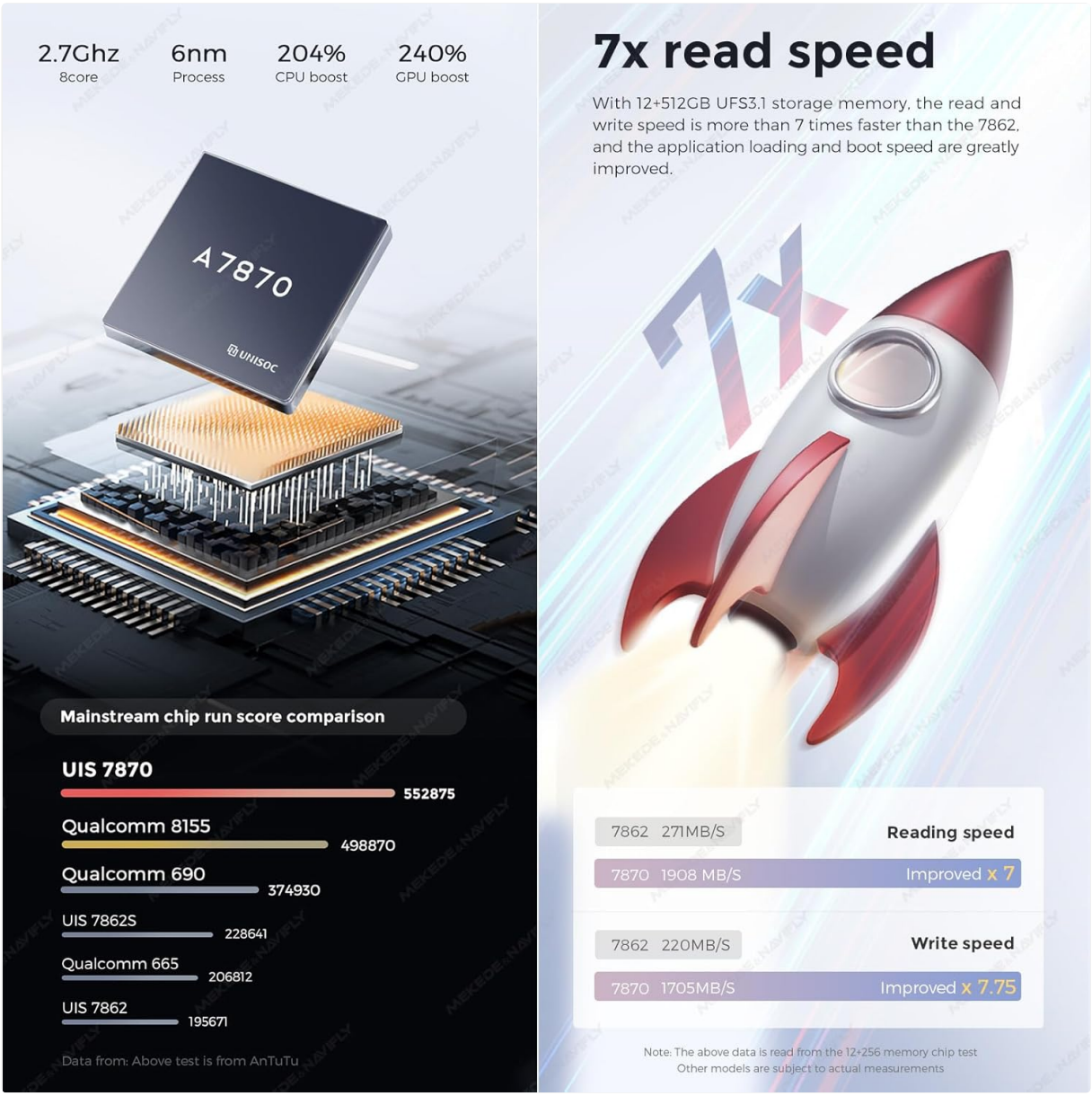
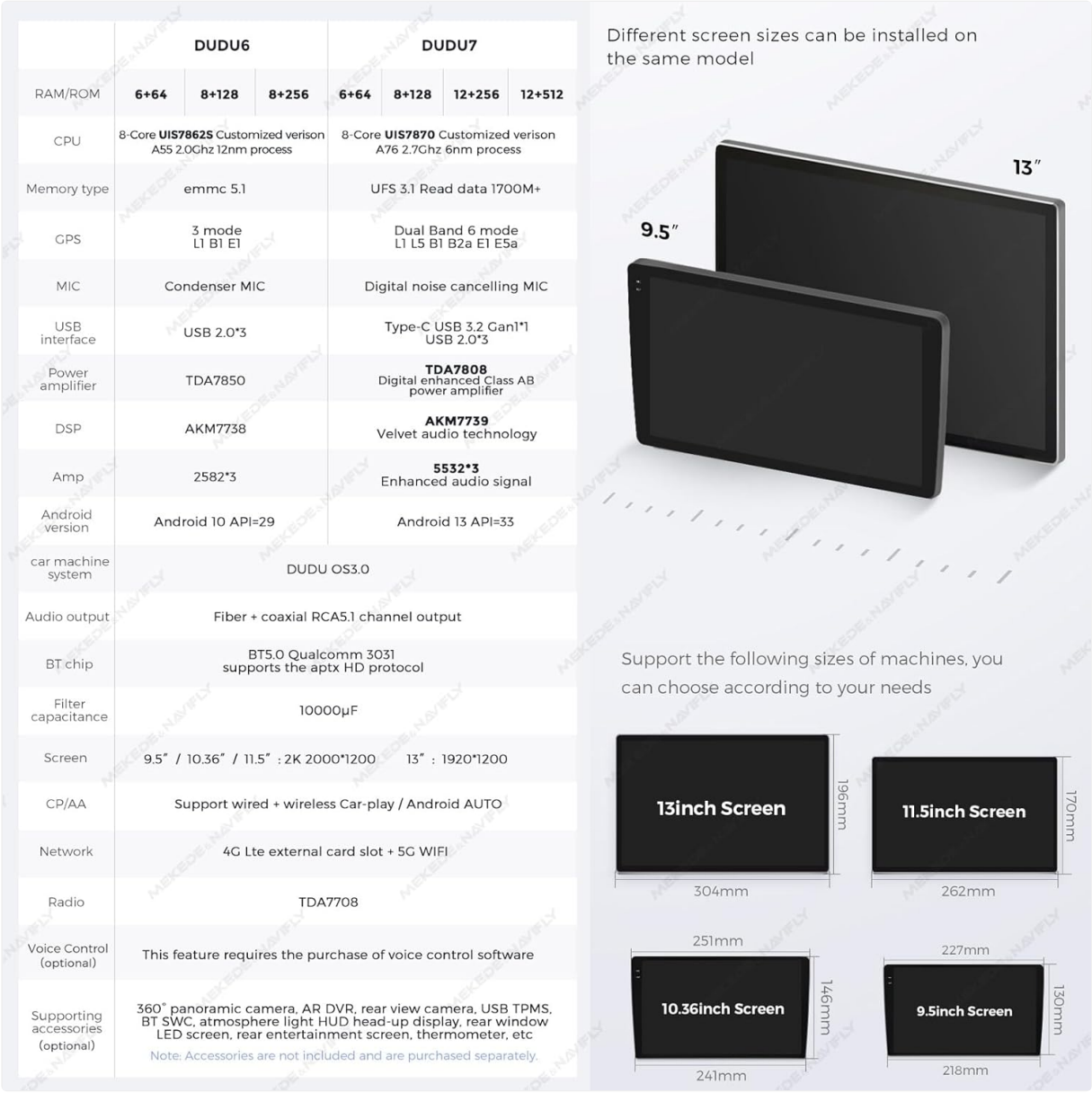


Figure 4.1: Main User Interface

4.2 DUDU OS 3.0 Interface

The unit operates on DUDU OS 3.0, an optimized Android 13 system. Navigate the interface using the

11.5-inch IPS touch screen. The system supports custom dynamic wallpapers and features day and night modes for improved visibility in varying light conditions.



	DUDU6			DUDU7			
RAM/ROM	6+64	8+128	8+256	6+64	8+128	12+256	12+512
CPU	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 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.						

Figure 4.2: DUDU OS 3.0 Features

4.3 Navigation

The DUDU7 features a built-in Dual Band 6-mode GPS chip (L1+L5) for enhanced positioning accuracy and speed. Utilize pre-installed navigation applications or download your preferred apps from the Google Play Store. The system supports lane-level navigation accuracy.



Figure 4.3: GPS and Microphone Capabilities

4.4 Connectivity

- **Wireless/Wired CarPlay & Android Auto:** Connect your smartphone wirelessly or via USB for seamless integration of CarPlay or Android Auto. This allows access to phone calls, messages, music, and navigation directly from the head unit.
- **Bluetooth 5.0:** The Qualcomm 3031 Bluetooth chip provides stable and fast connections for hands-free calling and audio streaming with aptX HD protocol support for high-quality sound.
- **Wi-Fi:** Supports 802.11a/b/g/n/ac and 5G Wi-Fi for internet access and app downloads.
- **4G:** Integrated 4G connectivity for internet access on the go.

4.5 Audio System

The DUDU7 features an AKM7739 DSP with Velvet Audio Technology and a TDA7808 digital AB type power amplifier for enhanced audio quality. It provides Optical + Coaxial and RCA 5.1 Channel audio outputs.



Figure 4.4: Advanced Audio Technology

4.6 360 Panoramic Image System

The unit supports a 360 panoramic image system, allowing for a comprehensive view around your vehicle when compatible cameras are connected.

5. Maintenance

To ensure the longevity and optimal performance of your DUDU7 head unit, follow these general maintenance guidelines:

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the touch screen. Avoid abrasive cleaners or harsh chemicals that could damage the display.
- **Software Updates:** Periodically check for and install available software updates to ensure the system runs efficiently and securely.
- **Environmental Conditions:** Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.
- **Cable Connections:** Ensure all cables are securely connected and free from damage.

6. Troubleshooting

If you encounter issues with your DUDU7 head unit, refer to the following common troubleshooting steps:

- **No Power:** Check all power connections and ensure the vehicle's ignition is on. Verify fuses if necessary.
- **No Sound:** Check speaker connections, volume levels, and audio output settings. Ensure external amplifiers are powered on if used.
- **Touch Screen Unresponsive:** Try restarting the unit. If the issue persists, perform a system reset (refer to system settings for this option).
- **GPS Signal Issues:** Ensure the GPS antenna is properly installed and has a clear view of the sky.
- **Bluetooth/Wi-Fi Connectivity Problems:** Ensure the respective antennas are connected. Try restarting the unit and your connected device.
- **App Malfunction:** Close and reopen the application. If the problem continues, clear the app's cache or reinstall it.

For persistent issues or technical assistance, please contact MekedeTech customer support. Users have reported excellent technical support, even with time zone differences.

7. Specifications

Feature	Specification
Model	DUDU7-12-256-11.5
Operation System	Android 13
CPU	8 Core UIS7870 Customized version A76 2.7Ghz 6nm processor
Memory (RAM/ROM)	12GB RAM / 256GB ROM (UFS 3.1)
Display	11.5-inch IPS Touch Screen, 2000x1200 Resolution
GPS	Dual Band 6 mode L1 L5 B1 B2a E1 E5a
Microphone	Digital Noise Cancellation Microphone
USB	USB 3.2 GEN1*1 (TYPE-C), USB 2.0*3
Power Amplifier	TDA7808 Digital AB type
DSP	AKM7739 Velvet Audio Technology
Bluetooth	Qualcomm 3031, BT5.0, supports aptX HD protocol
Audio Output	Optical + Coaxial, RCA 5.1 Channel Outputs
WiFi	802.11a/b/g/n/ac, supports 5G WIFI
Radio IC	TDA7708
Work Voltage	9V~16V
CarPlay & Android Auto	Support Wired and Wireless

Feature	Specification
360 Panorama	Support 360 panoramic image system



Figure 7.1: Processor and Performance Overview

8. Warranty and Support

8.1 Warranty Information

For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact MekedeTech directly. Warranty coverage typically addresses manufacturing defects and may vary by region.

8.2 Customer Support

If you require assistance with installation, operation, or troubleshooting, please contact MekedeTech customer support. Contact information can typically be found on the manufacturer's website or your purchase invoice. Timely and effective support is available to address your concerns.

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