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› [MekedeTech](#) /

› MekedeTech DUDUAUTO DUDU5 Android Car Stereo User Manual

## MekedeTech DUDU5-10.1SU7-128

# MekedeTech DUDUAUTO DUDU5 Android Car Stereo User Manual

Model: DUDU5-10.1SU7-128

[Box](#) [Setup](#) [Operation](#) [Maintenance](#) [Overview](#) [What's in the](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

## 1. OVERVIEW

The MekedeTech DUDUAUTO DUDU5 is an advanced 10.1-inch Android car stereo head unit designed to upgrade your vehicle's infotainment system. It features a high-resolution touch screen, physical control knobs, and supports wireless CarPlay and Android Auto. This unit operates on Android 10 with an 8-core UIS8581A CPU, offering 8GB RAM and 128GB internal storage. It includes integrated GPS, Bluetooth 5.0, and Wi-Fi connectivity. Please note that this specific model does not support 360-degree cameras.

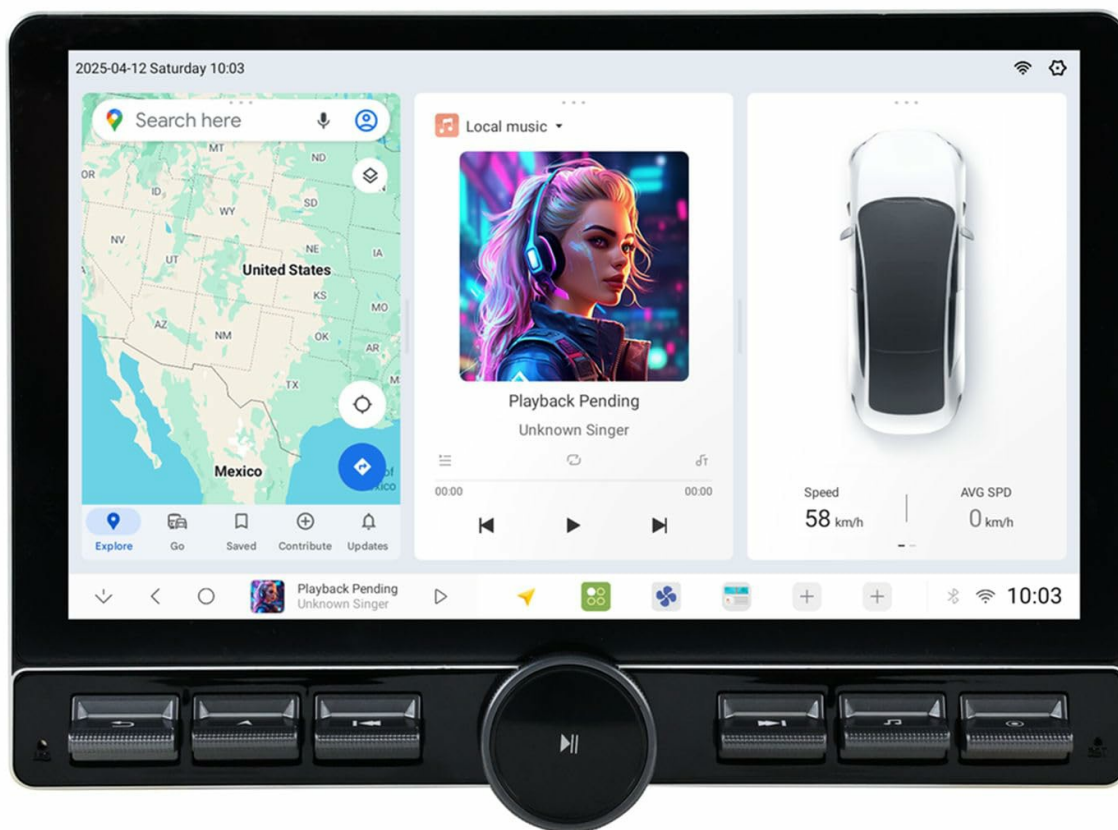


Figure 1: Front view of the MekedeTech DUDUAUTO DUDU5 car stereo with its 10.1-inch display and control knobs.

## 2. WHAT'S IN THE BOX

Verify that all components are present in the package:

- 10.1 inch Touch screen Head Unit
- ISO Power Harness
- RCA Harness
- Reverse Harness
- GPS Antenna

## 3. SETUP AND INSTALLATION

Installation of the DUDUAUTO DUDU5 head unit requires technical knowledge and should ideally be performed by a qualified professional. Incorrect installation can damage the unit or your vehicle's electrical system.

### 3.1 Pre-Installation Notes

- **Vehicle Compatibility:** Ensure the unit is compatible with your vehicle's dashboard opening. Vehicle-specific installation may require a compatible plate trim cover and a CANBUS box, which are sold separately.
- **Power Disconnection:** Before starting, disconnect the vehicle's negative battery terminal to prevent electrical shorts.
- **Wiring Diagram:** Refer to your vehicle's service manual and the provided wiring diagrams for accurate connections.

### 3.2 Connecting Components

1. **ISO Power Harness:** Connect the ISO power harness to your vehicle's wiring loom. Ensure all power, ground, and accessory wires are correctly matched.
2. **RCA Harness:** Connect the RCA harness for audio output to external amplifiers or subwoofers, if applicable.
3. **Reverse Harness:** Connect the reverse harness for reverse camera input (if using a compatible external camera, as this unit does not support 360 cameras).
4. **GPS Antenna:** Mount the GPS antenna in a location with a clear view of the sky, typically on the dashboard or under the windshield, ensuring it is securely fastened.
5. **USB Cables:** Connect the provided USB cables for external devices or data transfer.

|                    | DUDU4              | DUDU5             | DUDU6                                                                   | DUDU7                                                                 |
|--------------------|--------------------|-------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------|
| RAM/ROM            | 4+32GB             | 4+64GB            | 6+64GB<br>8+128GB<br>8+256GB                                            | 6+64GB 12+256GB<br>8+128GB 12+512GB                                   |
| CPU                | 8-Core<br>UIS8581A | 8-Core<br>UIS7862 | 8-Core <b>UIS7862S</b><br>Customized version<br>A55 2.0Ghz 12nm process | 8-Core <b>UIS7870</b><br>Customized version<br>A76 2.7Ghz 6nm process |
| Memory type        | emmc 5.1           |                   |                                                                         | UFS 3.1 Read data<br>1700M+                                           |
| GPS                | 3 mode L1 B1 E1    |                   |                                                                         | Dual Band 6 mode<br>L1 L5 B1 B2a E1 E5a                               |
| MIC                | Condenser MIC      |                   |                                                                         | Digital noise<br>cancelling MIC                                       |
| USB interface      | USB 2.0*3          |                   |                                                                         | Type-C USB 3.2 Gen1*1<br>USB 2.0*3                                    |
| Power amplifier    | TDA7838            | TDA7851           | TDA7850                                                                 | <b>TDA7808</b><br>Digital enhanced Class AB<br>power amplifier        |
| DSP                | AK7604             | AK7604            | AKM7738                                                                 | <b>AKM7739</b><br>Velvet audio technology                             |
| Amp                | /                  | /                 | 2582*3                                                                  | <b>5532*3</b><br>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<br>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.<br>Note: Accessories are not included and are purchased separately.<br>For more customization needs, please contact mekede&navifly. |                                       |                                                         |

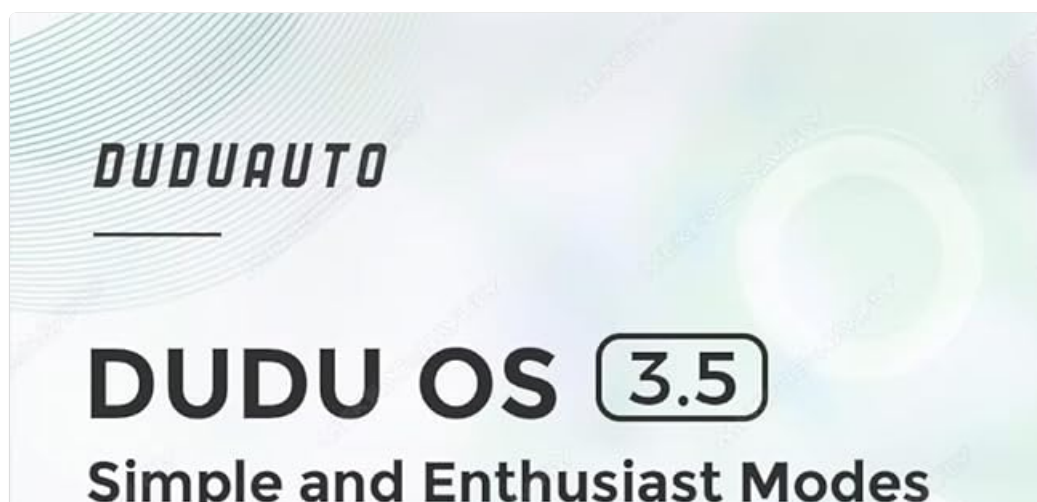
Figure 2: Rear view of the DUDUAUTO DUDU5 showing various connection ports for power, RCA, USB, and antenna.

### 3.3 Post-Installation

Once all connections are made and the unit is securely mounted, reconnect the vehicle's battery. Power on the unit and perform initial setup steps as prompted on the screen.

## 4. OPERATING INSTRUCTIONS

The DUDUAUTO DUDU5 operates on Android 10, providing a familiar and intuitive user interface. You can interact with the unit via the 10.1-inch touchscreen or the physical control knobs.



# Available

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

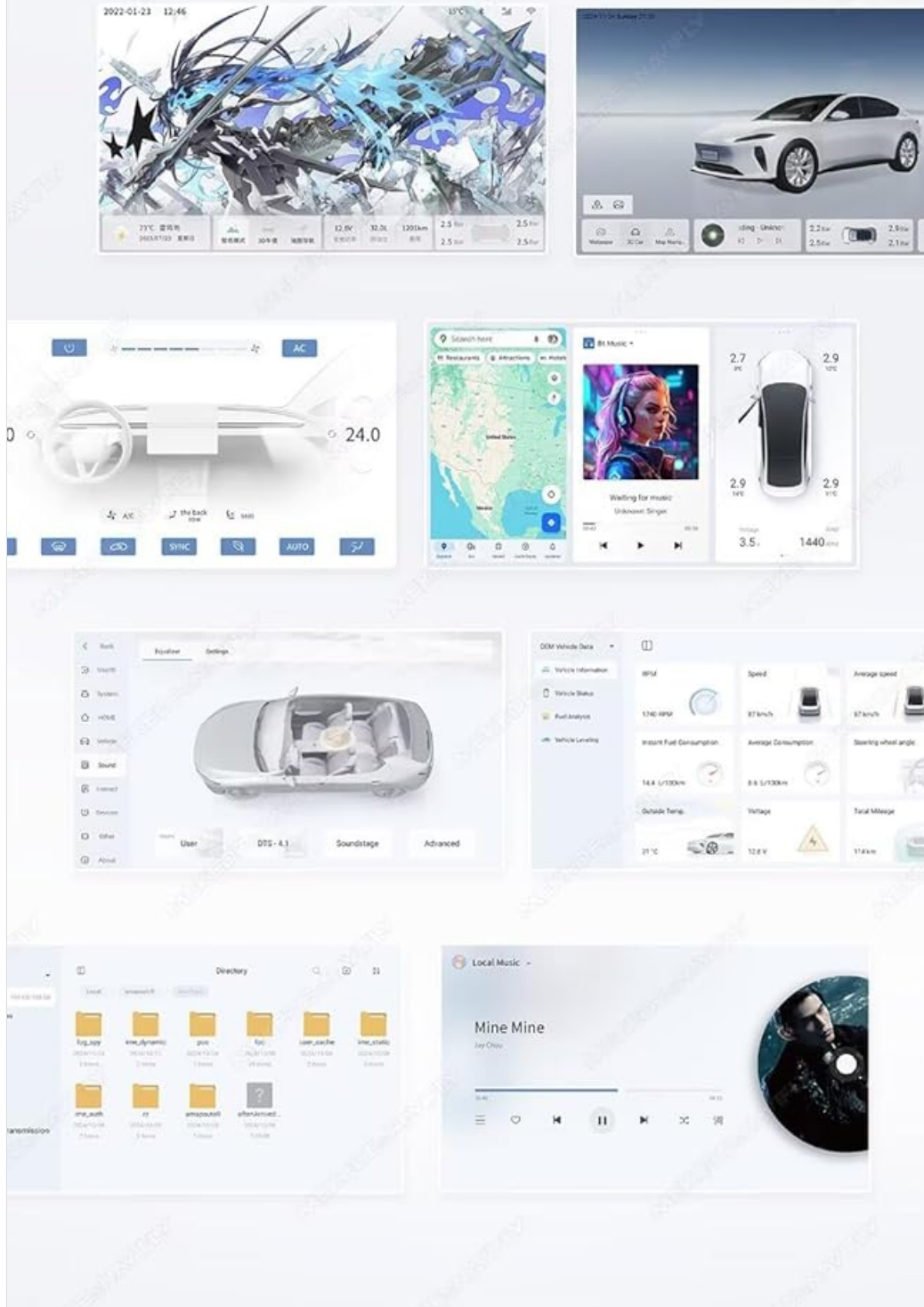


Figure 3: Example of the DUDU OS 3.5 user interface, offering simple and enthusiast modes.

## 4.1 Power On/Off

- **Power On:** The unit typically powers on automatically when the vehicle's ignition is turned on.

- **Power Off:** The unit will power off automatically when the ignition is turned off. A short press on the power knob may put it into standby mode.

## 4.2 Touch Screen and Knobs

- **Touch Screen:** Navigate through menus, select applications, and control functions by touching the 10.1-inch display.
- **Control Knobs:** Use the physical knobs for quick adjustments such as volume control and menu navigation.

## 4.3 Wireless CarPlay and Android Auto

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

# Supports wireless Car-play +Android Auto

Car dvd player comes with carplay function, no need to purchase additional accessories.

### Wireless CarPlay (ios system)

Connection steps:

1. Connect BT
2. Click on "Car Link"

and wait for connection  
(CarPlay can also be connected via USB Cable)

### Wired Auto (Android system)

Connection steps:

1. Connect the mobile phone and car dvd player **With USB cable**
2. Click on "Car link"

and wait for connection

Figure 4: Screen displaying the Wireless CarPlay and Android Auto interfaces.

### 4.3.1 Wireless CarPlay (iOS System)

1. Ensure Bluetooth is enabled on your iPhone.
2. On the head unit, go to the Bluetooth settings and pair with your iPhone.
3. Once paired, select the "CarPlay" icon on the head unit's screen.

4. Follow any on-screen prompts to establish the wireless CarPlay connection.

### 4.3.2 Wired Android Auto (Android System)

1. Connect your Android phone to the head unit using a high-quality USB cable.
2. Ensure Android Auto is installed and updated on your phone.
3. On the head unit, select the "Android Auto" icon.
4. Follow any on-screen prompts to establish the wired Android Auto connection.

## 4.4 Bluetooth 5.0 Connectivity

The unit features a Qualcomm 3031 Bluetooth 5.0 chip for stable and high-quality audio streaming and hands-free calling.

1. Go to the Bluetooth settings on the head unit.
2. Enable Bluetooth on your mobile device and search for available devices.
3. Select "DUDUAUTO" or a similar name from the list on your mobile device to pair.
4. Confirm the pairing code if prompted.

## 4.5 4G LTE & Wi-Fi Support

- **4G LTE:** Insert a compatible SIM card into the designated slot (if available on your specific model) for mobile data access.
- **Wi-Fi:** Connect to a Wi-Fi hotspot (e.g., from your phone or a portable hotspot) via the unit's Wi-Fi settings to access online features and updates. Supports 802.11a/b/g/n/ac and 5G Wi-Fi.

## 4.6 GPS Navigation

The integrated GPS module supports L1 B1 E1 modes, providing accurate positioning for navigation applications. Ensure the GPS antenna is properly installed for optimal signal reception.

## 4.7 Audio Features

The unit includes a TDA7851 power amplifier and an AK7604 DSP for enhanced audio quality. Adjust audio settings, equalizer, and balance through the sound settings menu on the touchscreen.

# 5. MAINTENANCE

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the touchscreen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid harsh chemicals.
- **Software Updates:** Periodically check for software updates via the unit's system settings or the manufacturer's website 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.

# 6. TROUBLESHOOTING

If you encounter issues with your DUDUAUTO DUDU5 unit, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|---------|----------------|----------|

| Problem                                       | Possible Cause                                                                                      | Solution                                                                                                    |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Unit does not power on.                       | Incorrect power wiring, blown fuse, vehicle battery issue.                                          | Check power harness connections. Inspect vehicle fuses. Ensure vehicle battery is charged.                  |
| No sound output.                              | Volume too low, mute activated, incorrect speaker wiring, external amplifier issue.                 | Increase volume. Check mute status. Verify speaker and RCA harness connections.                             |
| GPS signal is weak or unavailable.            | GPS antenna improperly installed or obstructed.                                                     | Ensure GPS antenna has a clear view of the sky and is securely connected.                                   |
| Wireless CarPlay/Android Auto not connecting. | Bluetooth not enabled, incorrect pairing, phone software issue, USB cable issue (for Android Auto). | Ensure Bluetooth is on and paired. Restart phone and head unit. Try a different USB cable for Android Auto. |
| Touchscreen unresponsive.                     | Temporary software glitch, screen damage.                                                           | Restart the head unit. If issue persists, contact support.                                                  |

## 7. SPECIFICATIONS

Detailed technical specifications for the MekedeTech DUDUAUTO DUDU5-10.1SU7-128:

# in-cell screen 1280\*720

Enables clearer, more detailed images and videos.



Figure 5: Close-up of the 10.1-inch in-cell screen, highlighting its 1280x720 resolution.

- **Model:** DUDU5-10.1SU7-128
- **Operating System:** Android 10
- **CPU:** 8-Core UIS8581A
- **RAM:** 8GB
- **Internal Storage (ROM):** 128GB
- **Display:** 10.1 inch Touch Screen, 1280x720 HD Resolution (In-Cell Screen)
- **Connectivity:**
  - Bluetooth: BT5.0 (Qualcomm 3031 chip)
  - Wi-Fi: 802.11a/b/g/n/ac (Supports 5G Wi-Fi)
  - USB: USB2.0\*2
  - 4G LTE: Support (requires SIM card)
- **GPS:** 3 mode L1 B1 E1
- **Microphone:** Condenser MIC
- **Power Amplifier:** TDA7851

- **DSP:** AK7604
- **Radio IC:** TDA7708
- **Work Voltage:** 9V~16V
- **CarPlay/Android Auto:** Supports Wired and Wireless CarPlay, Wired Android Auto
- **360 Camera Support:** NOT Supported (Please choose DUDU7 8G version and above for 360 camera support)
- **Control Method:** App, Push Button, Touch
- **Audio Output Mode:** Stereo

# Powerful 8Core CPU

Adopts UIS8581A Smart Cockpit chip



Figure 6: Image of the UIS8581A 8-Core CPU chip, highlighting its role in the unit's performance.

## 8. WARRANTY AND SUPPORT

### 8.1 Warranty Information

The MekedeTech DUDUAUTO DUDU5-10.1SU7-128 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, or unauthorized modifications.

## 8.2 Customer Support

For technical assistance, warranty claims, or further inquiries, please contact MekedeTech customer support through the retailer where the product was purchased or visit the official MekedeTech website for contact information. When contacting support, please have your product model number (DUDU5-10.1SU7-128) and proof of purchase readily available.