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› MekedeTech Mekede DUDUAUTO 11.5" 2K Touch Screen Car Radio Stereo Intelligent Navigation Head Unit User Manual

MekedeTech DUDU7-6-64-11.5

MekedeTech DUDUAUTO 11.5" 2K Touch Screen Car Radio Stereo User Manual

Model: DUDU7-6-64-11.5 | Brand: MekedeTech

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MekedeTech Universal DUDUAUTO DUDU7 Car Multimedia Head Unit Player. This unit features an Android 13 operating system, an 11.5-inch 2000x1200 2K screen, and a powerful 8-Core UIS7870 processor, offering advanced navigation and entertainment capabilities for your vehicle.

Please read this manual thoroughly before using the product to ensure proper operation and to maximize its features.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact your retailer.

Package Contents



Machine



MIC



RCA Cable



Reversing camera



Audio Out



Fakra 4G Antenna



Fakra GPS Antenna



USB Plug x3

Image: Components included in the MekedeTech DUDUAUTO Head Unit package, showing the main unit, microphone, various cables (RCA, reversing camera, audio out), 4G antenna, GPS antenna, and USB plugs.

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

3. SETUP AND INSTALLATION

Installation of the DUDUAUTO head unit requires basic automotive electrical knowledge. It is recommended to have the unit installed by a qualified professional.

3.1 Pre-Installation Checklist

- Ensure your vehicle's ignition is off and the battery is disconnected.
- Obtain the correct wiring harness and bezel for your specific vehicle model.
- Review your vehicle's wiring diagram to identify relevant connections.

3.2 Installation Steps

1. Remove the existing car stereo or dash panel as per your vehicle's service manual.
2. Connect the provided wiring harness to the DUDUAUTO head unit and your vehicle's wiring. Ensure all connections are secure.
3. Connect the GPS antenna, 4G antenna, and other peripheral cables (RCA, USB, reversing camera) as needed.
4. Carefully slide the head unit into the dash opening. The adjustable mount allows for optimal positioning of the screen.
5. Secure the unit in place using the appropriate mounting hardware.
6. Reconnect the vehicle battery and test the unit's functionality before fully reassembling the dash.

Note: For models requiring a 360 backup camera chip, please ensure you have chosen an 8G or above version of the DUDU7 unit, as the 6+64GB version does not support this built-in chip.

4. OPERATING INSTRUCTIONS

The DUDUAUTO head unit runs on Android 13, offering a user-friendly interface and extensive features.

4.1 User Interface and Navigation

The 11.5-inch 2K touchscreen provides a clear and responsive interface. The DUDU OS 3.0 features a minimalist UI mode allowing most operations directly from the desktop.

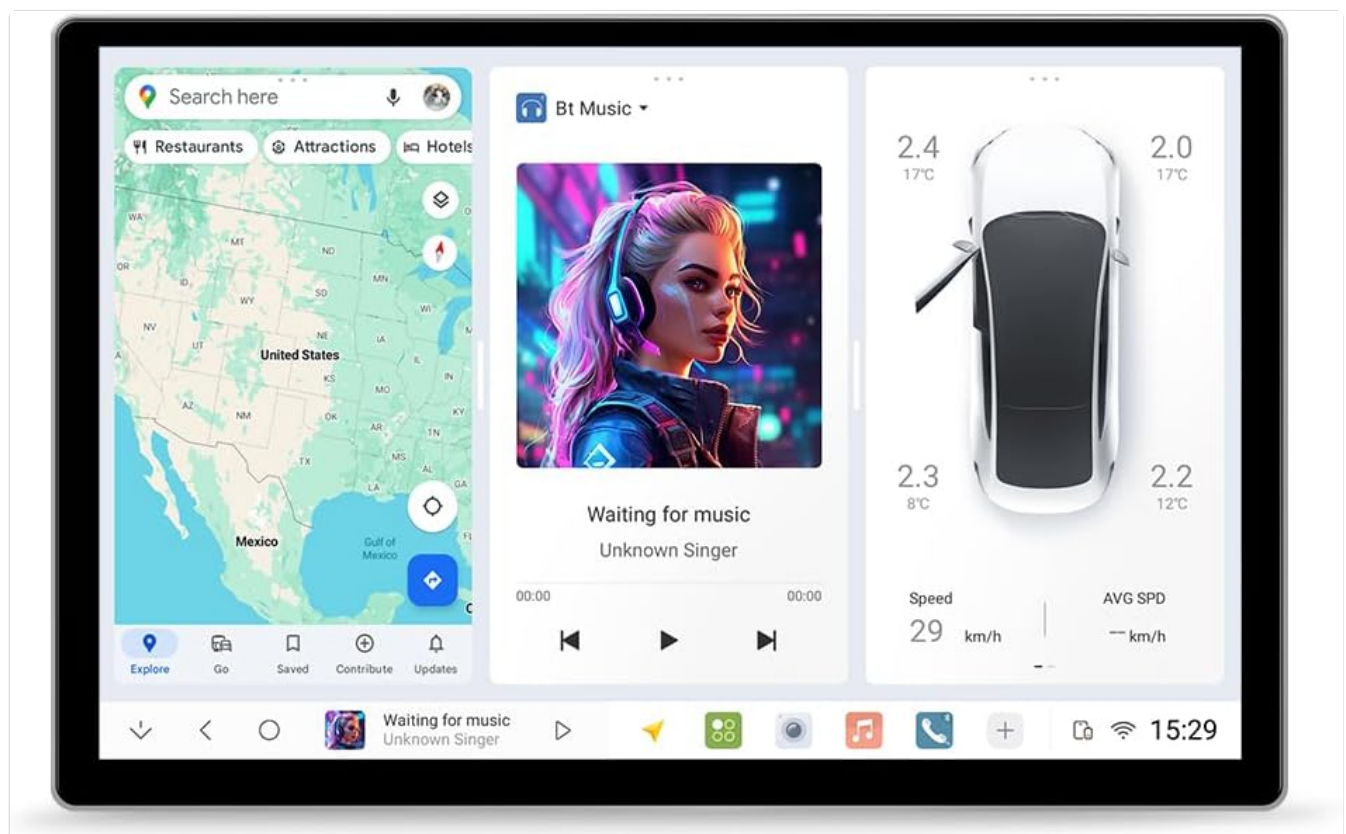


Image: The main user interface of the MekedeTech DUDUAUTO head unit, displaying a split-screen view with navigation on the left, media player in the center, and vehicle information on the right.

You can switch between applications by long-pressing the window at the top of the screen or by tapping to select from available apps. The window size can be adjusted by dragging the middle of the window, allowing for flexible multi-tasking.

Your browser does not support the video tag.

Video: Demonstration of the simple user interface for the DUDU7, showing how to switch between applications and adjust window sizes for multi-tasking.

	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

13inch Screen

304mm

196mm

11.5inch Screen

262mm

170mm

10.36inch Screen

241mm

146mm

9.5inch Screen

218mm

130mm

Image: A visual representation of the DUDU OS 3.0 featuring new custom dynamic wallpapers, illustrating different themes for daytime and nighttime modes.

4.2 Connectivity Features

- **Wireless & Wired CarPlay/Android Auto:** Seamlessly integrate your smartphone for navigation, calls, messages, and music. The wireless feature allows for automatic connection without a cable.
- **Bluetooth 5.0 (Qualcomm 3031 chip):** Provides low power consumption, faster transmission speed, and stable signal for calls and music streaming with aptX HD protocol support.
- **Wi-Fi (802.11a/b/g/n/ac, 5G support):** Connect to Wi-Fi networks for internet access, app downloads, and online services.

- **GPS (Dual Band 6 mode L1 L5 B1 B2a E1 E5a):** Built-in high-precision positioning chip for accurate and fast navigation, supporting lane-level accuracy.
- **USB 3.2 GEN1 (Type-C) & USB 2.0:** Multiple USB ports for connecting external devices and data transfer.

4.3 Audio and Sound Quality

- **Power Amplifier (TDA7808 Digital AB type):** Delivers clear and powerful audio output.
- **DSP (AKM7739 Velvet Audio Technology):** Supports "VELVET SOUND" and DTS5.1 panoramic sound for a natural and immersive audio experience.
- **Digital Noise Cancellation Microphone:** Reduces ambient noise for clear voice transmission, even at high speeds.
- **Audio Output:** Optical + Coaxial, RCA 5.1 Channel Outputs for versatile audio system integration.



Image: Internal components highlighting the AKM7739 DSP Velvet Audio Technology chip, which enhances sound quality and provides a comfortable, immersive audio experience.

5. SPECIFICATIONS

Detailed technical specifications for the MekedeTech DUDUAUTO DUDU7-6-64-11.5 head unit:

Feature	Specification
Model	DUDU7-6-64-11.5
Operating System	Android 13
CPU	8 Core UIS7870 Customized version A76 2.7Ghz 6nm processor
Memory (RAM/ROM)	6GB RAM / 64GB ROM (UFS 3.1 Read data 1700M+)
Display Size	11.5 Inches
Display Resolution	2K (2000x1200) QLED
GPS	Dual Band 6 mode L1 L5 B1 B2a E1 E5a (GPS Enabled)
Microphone	Digital Noise Cancellation Microphone
USB Ports	USB 3.2 GEN1*1 (TYPE-C), USB 2.0*3
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 CarPlay and Android Auto

Dual Band GPS L1+L5

Better Positioning and Signal



GPS Band	Position accuracy	Star collecting capacity	Positioning speed
L1	3-5M	15-35 stars	Slow
L1+L5	1-2M	30-60 stars	Fast

Note: The above test comes from the Amap car version data, lane positioning navigation depends on country to be supported

Digital Noise Cancelling MIC

Delivering your voice clearly

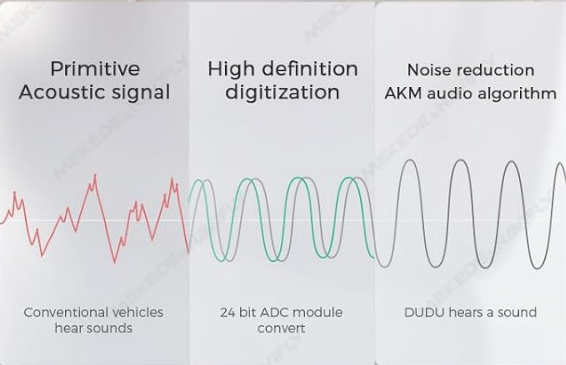
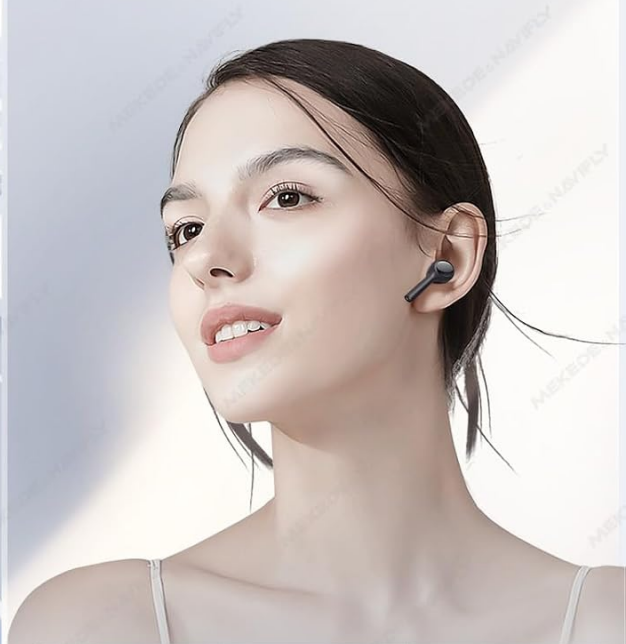
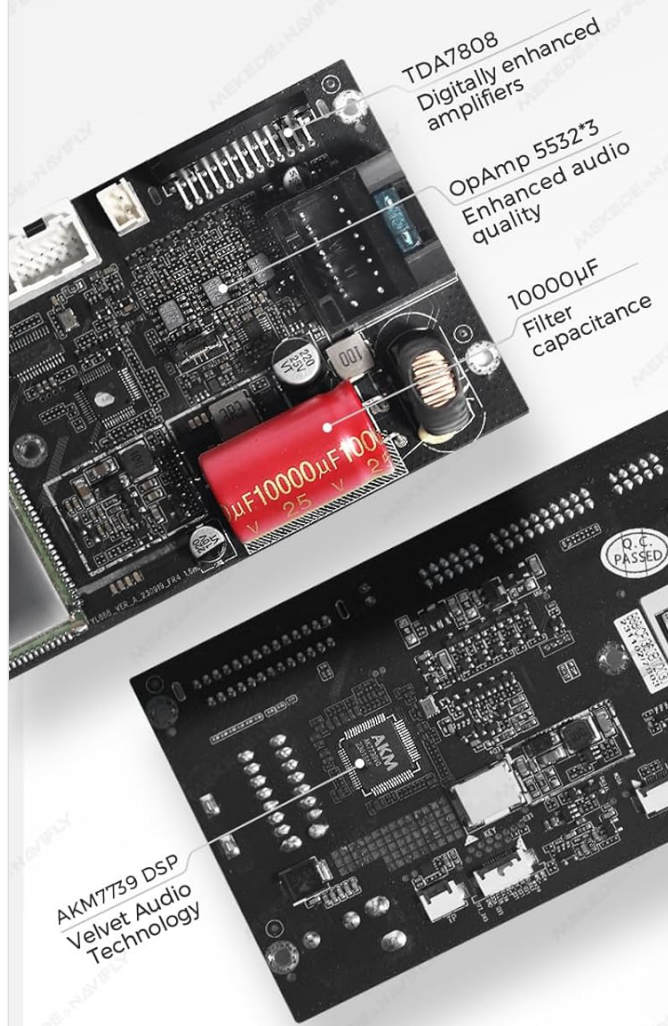


Image: Diagram illustrating the UIS7870 8-core processor and a comparison of read/write speeds, showing significant improvement over previous generations.

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.

Image: Visual explanation of the Dual Band L1+L5 GPS for better positioning and signal, alongside the Digital Noise Cancelling Microphone for clear voice delivery.

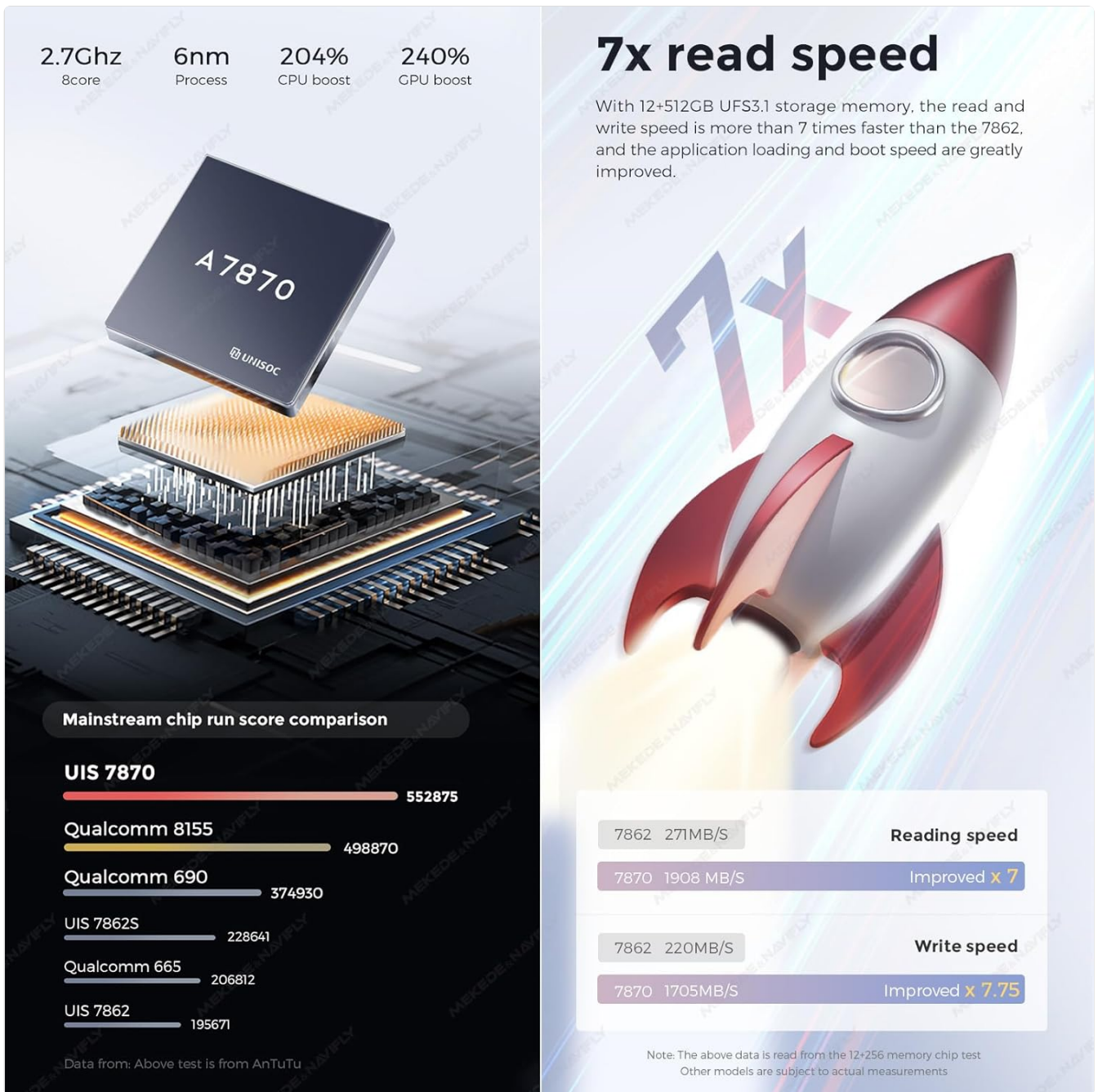


Image: A comparison table detailing specifications between DUDU6 and DUDU7 models, and a visual guide to different screen sizes available for the same model (9.5", 10.36", 11.5", 13").

6. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your DUDUAUTO head unit.

- **Screen Cleaning:** Use a soft, lint-free cloth specifically designed for electronic screens. Dampen the cloth slightly with water or a screen-safe cleaner if necessary. Avoid harsh chemicals or abrasive materials.
- **General Cleaning:** Wipe the exterior of the unit with a dry or slightly damp soft cloth. Do not allow liquids to enter the unit.
- **Temperature:** Avoid exposing the unit to extreme temperatures, both hot and cold, for extended periods.
- **Software Updates:** Periodically check for and install software updates to ensure the system runs efficiently and has the latest features and security patches.

7. TROUBLESHOOTING

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

Problem	Possible Cause / Solution
Unit does not power on	Check power connections and vehicle's fuse. Ensure the battery is properly connected.
No sound output	Verify speaker connections. Check volume levels and audio settings. Ensure correct audio output is selected.
GPS signal lost or inaccurate	Ensure GPS antenna is properly installed and has a clear view of the sky. Check GPS settings in the unit.
Bluetooth connection issues	Ensure Bluetooth is enabled on both the head unit and your device. Try unpairing and re-pairing the device.
CarPlay/Android Auto not connecting	For wired connection, ensure the USB cable is functional and properly connected. For wireless, check Wi-Fi and Bluetooth settings. Restart both the unit and your phone.
Touchscreen unresponsive	Restart the unit. If the problem persists, contact customer support.

For issues not covered here, or if troubleshooting steps do not resolve the problem, please contact MekedeTech customer support.

8. WARRANTY AND SUPPORT

MekedeTech is committed to providing high-quality products and excellent customer service. While specific warranty details may vary by region and retailer, general support is available.

8.1 Customer Support

If you require assistance with your DUDUAUTO head unit, please contact MekedeTech customer support. Many users have reported positive experiences with their support team, noting their attentiveness and helpfulness. You can often find support contact information on the official MekedeTech website or through your purchase platform.

8.2 Product Updates

MekedeTech may release software updates to improve performance, add new features, or address issues. It is recommended to regularly check for and install these updates to ensure your unit operates with the latest enhancements.