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› [DKARDU Mini Microphone Amplifier Board Instruction Manual](#)

**DKARDU DR-US-672**

# DKARDU Mini Microphone Amplifier Board Instruction Manual

Model: DR-US-672 | Brand: DKARDU

## INTRODUCTION

This manual provides detailed instructions for the DKARDU DC 5V-12V Mini Microphone Amplifier Board. This module is designed to amplify audio signals from various microphone types, including electret, condenser, and moving coil microphones, for output to speakers. It is suitable for a wide range of audio projects and applications.

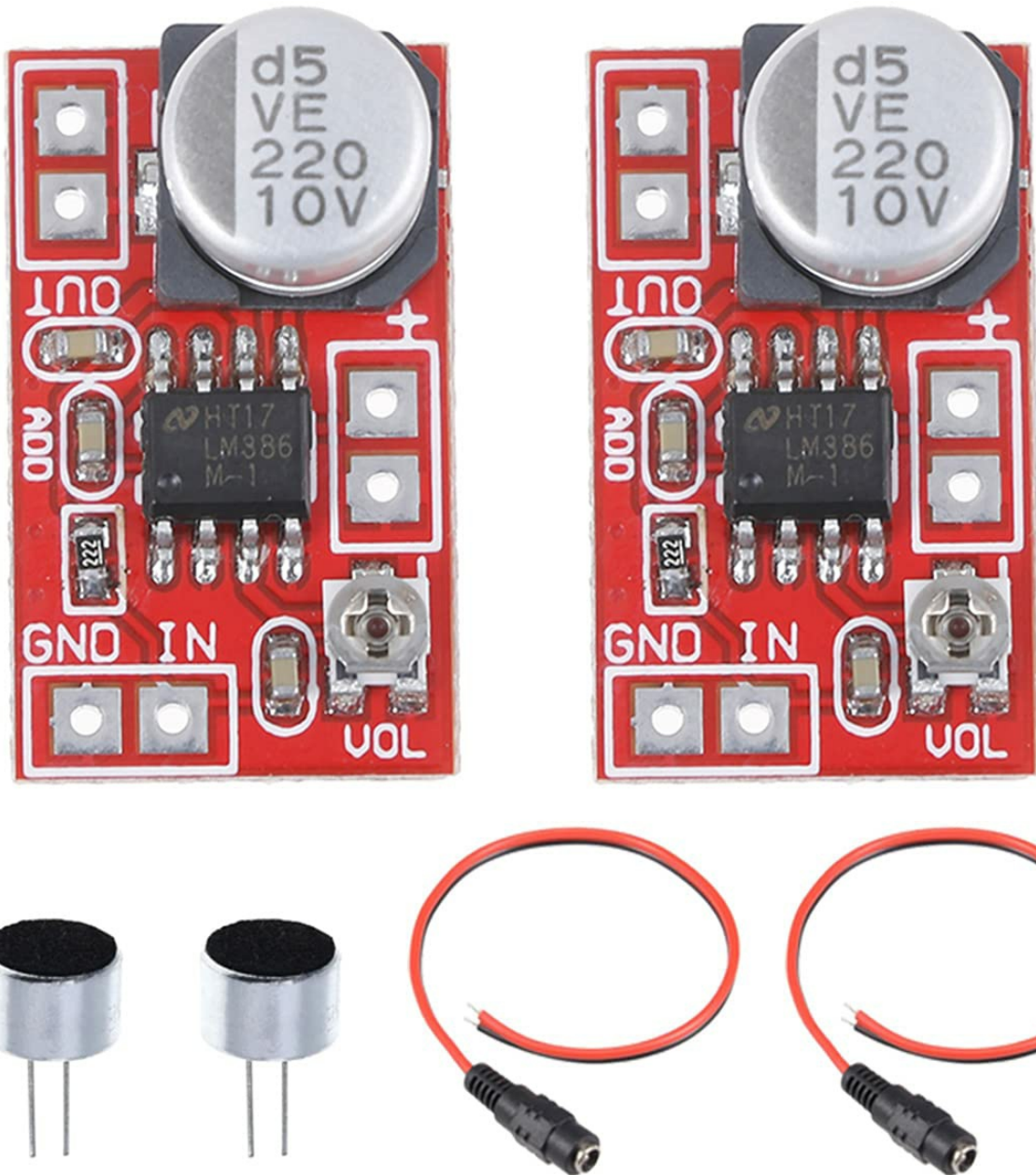


Image: Overview of the DKARDU Mini Microphone Amplifier Board kit, including two amplifier modules, two electret microphones, and two power cables.

## WHAT'S IN THE BOX

The package includes the following components:

- 2 x DC 5V-12V Micro Electret Amplifier Boards
- 2 x Electret Microphones
- 2 x DC Female Power Pigtail Cables

## SPECIFICATIONS

Detailed technical specifications for the amplifier module:

Parameter	Value
Operating Voltage	5V-12V DC (Voltage below 5V will significantly reduce sound; do not exceed 15V)
Operating Current	1mA (static) ~ 150mA (max)
Output Speaker Impedance	4 $\Omega$ - 32 $\Omega$ (Higher impedance results in higher efficiency)
Supported Speaker Power	0.5W-25W (Any power speaker can be used, volume is not directly proportional to speaker power, as long as it's greater than amplifier output rating)
Maximum Output Power	750mW
Input Support	Electret microphone, condenser microphone, moving coil microphone, audio signal
Dimensions (LxWxH)	20 x 12 x 6mm / 0.79 x 0.47 x 0.23 inches

## PARAMETER



**Operating voltage: 5V-12V**

**Operating current: 1mA (static) ~ 150mA (max);**

**Output speaker impedance: 4  $\Omega$ -32  $\Omega$**

**Support the speaker power: 0.5W-25W**

**Output power: 750mW (max);**

Image: Detailed view of the amplifier board highlighting its key parameters.

## SIZE

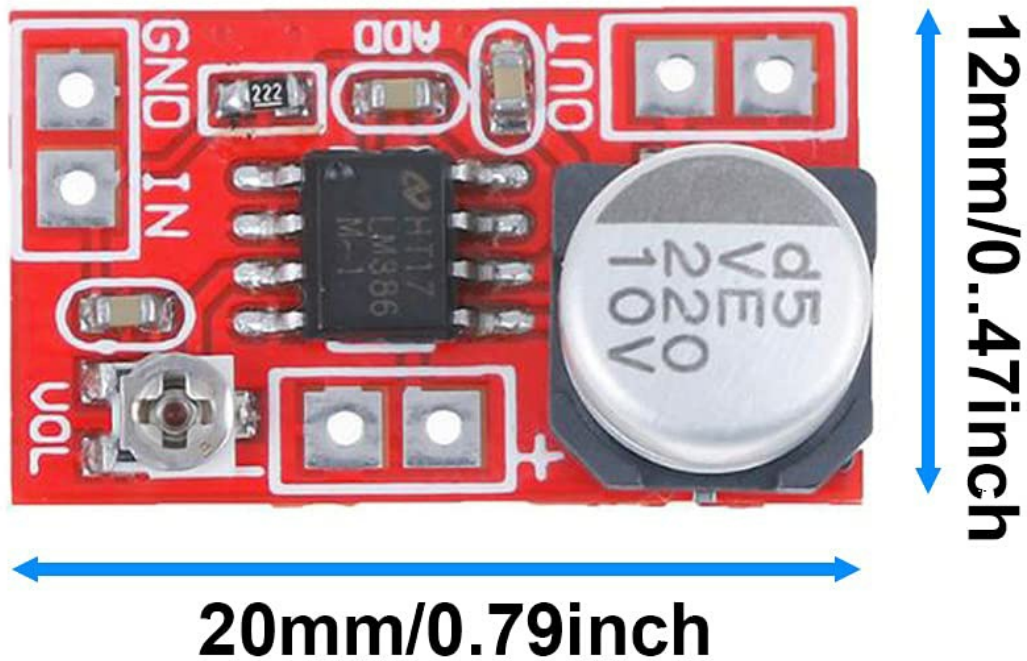


Image: Dimensions of the amplifier board, showing its compact size.

## SETUP

Follow these steps to correctly set up your amplifier board:

1. **Connect the Microphone:** Use a shielded cable to connect the electret microphone to the 'IN' and 'GND' terminals of the amplifier board. Pay close attention to the polarity of the electret microphone; incorrect polarity will result in very low or no sound.
2. **Connect the Speaker:** Connect your speaker to the 'OUT' terminals of the amplifier board. Ensure the speaker is positioned away from the microphone to prevent self-excited noise (feedback).
3. **Connect Power:** Connect a DC power supply (5V-12V) to the positive and negative terminals of the amplifier board. **WARNING: Do not reverse the polarity of the power supply, as this will damage the module.**



## APPLICATION

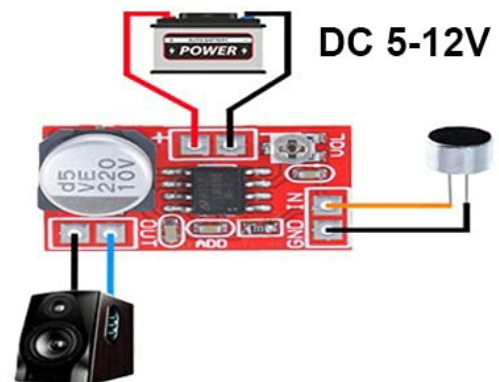
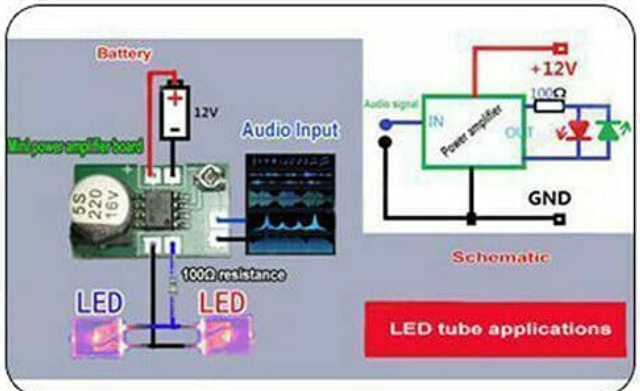
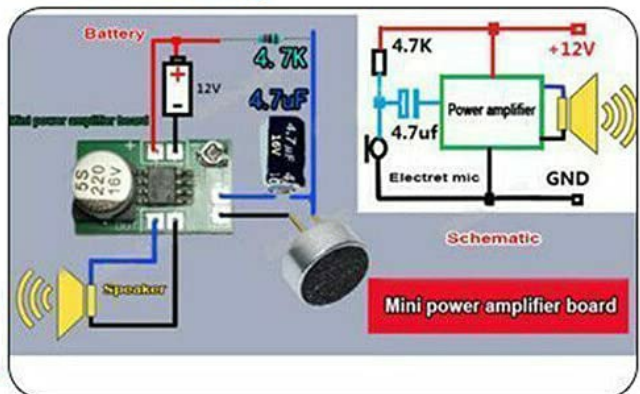


Image: A clear wiring diagram illustrating how to connect the DC power supply, microphone, and speaker to the amplifier board.

## OPERATING INSTRUCTIONS

Once properly set up, the amplifier board will begin to amplify the audio signal from the connected microphone. The module supports various microphone types and can be integrated into different audio systems.

- **Volume Adjustment:** The board features a small potentiometer (labeled 'VOL') for adjusting the output volume. Use a small screwdriver or appropriate tool to carefully turn the potentiometer to achieve the desired volume level.
- **Input Compatibility:** The amplifier is designed to work with electret, condenser, and moving coil microphones, as well as general audio signals.

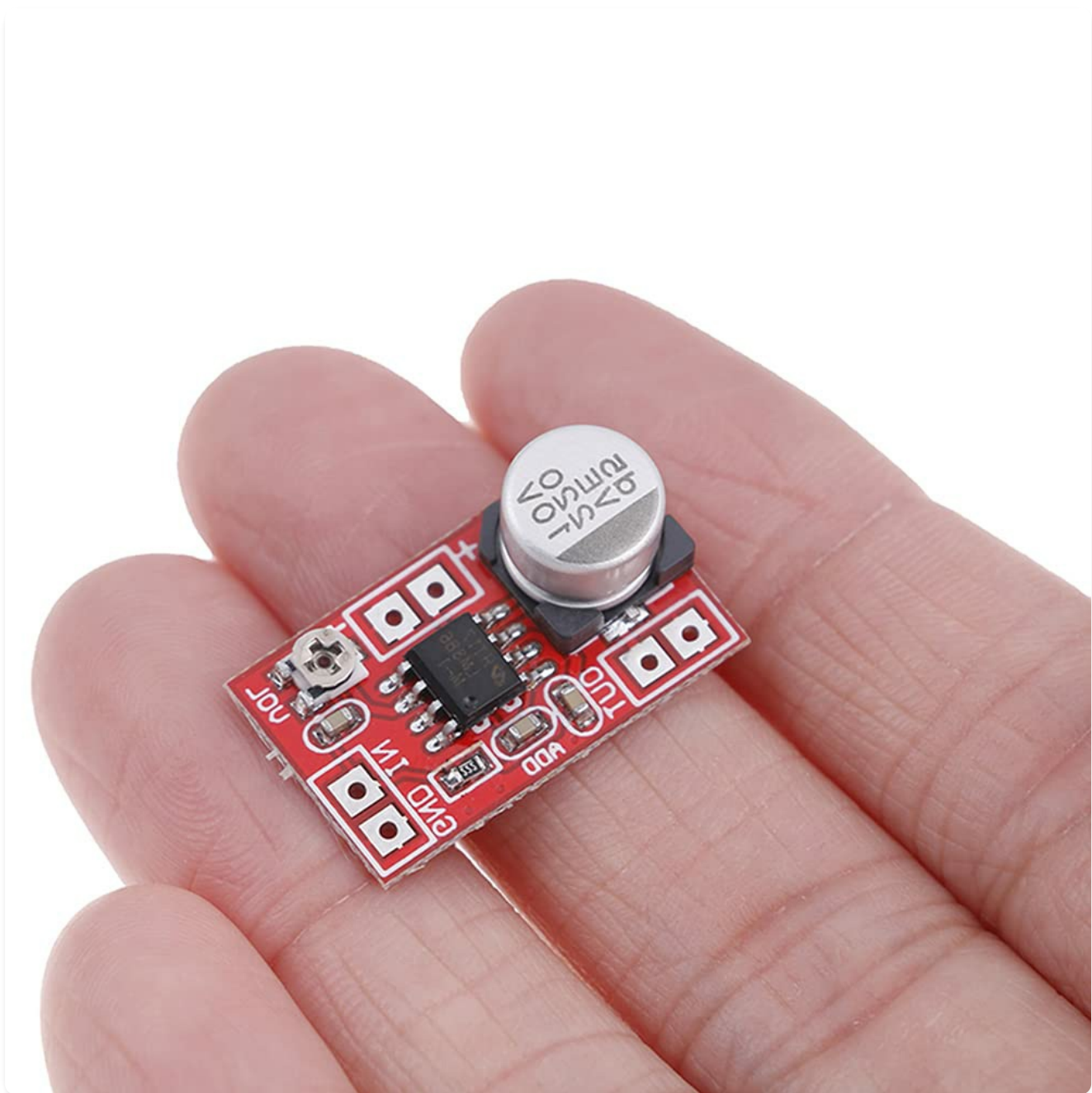


Image: The amplifier board, illustrating its compatibility with electret, microphone, condenser microphone, moving coil microphone, and general audio signals.

## WIRING DIAGRAM

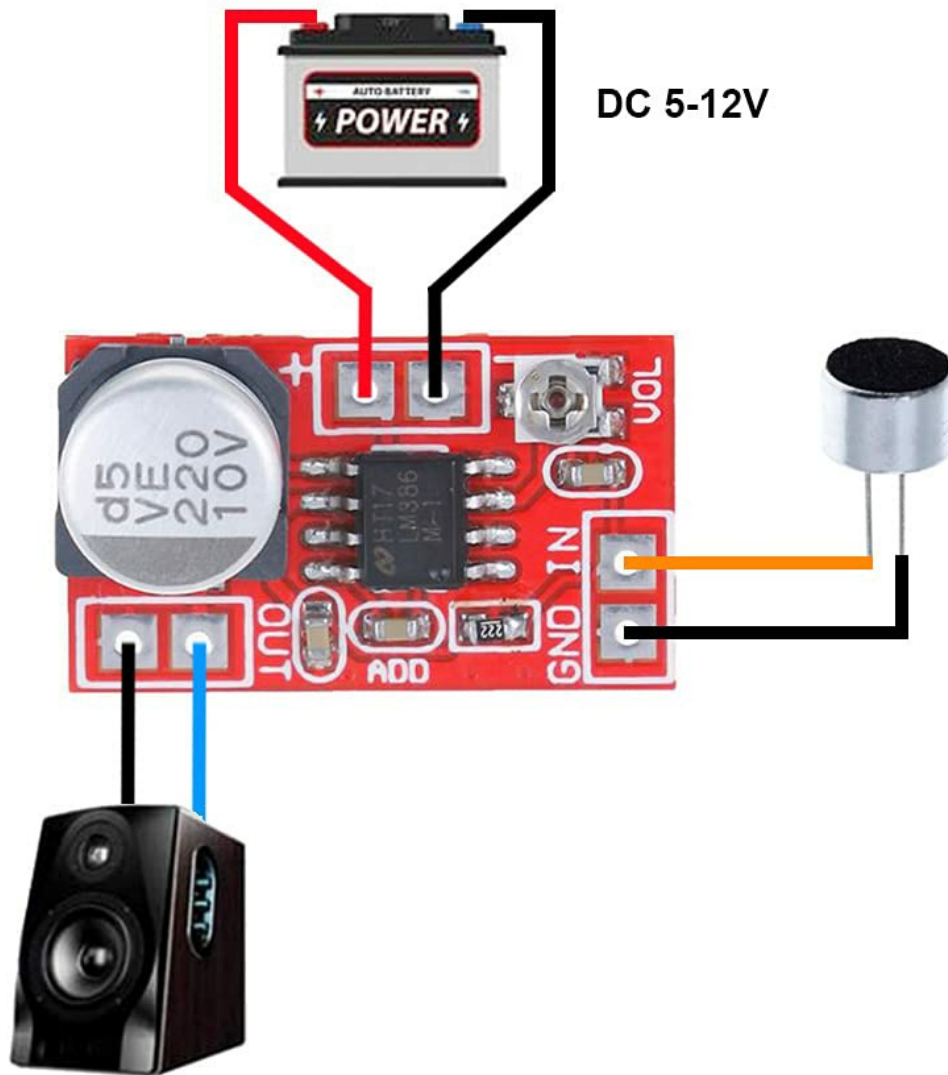


Image: Examples of different applications and wiring configurations for the amplifier board, demonstrating its versatility.

## MAINTENANCE

To ensure the longevity and optimal performance of your DKARDU Mini Microphone Amplifier Board, consider the following maintenance guidelines:

- **Keep Dry:** Protect the module from moisture and liquids, as water can cause short circuits and damage components.
- **Clean Gently:** If cleaning is necessary, use a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Handle with Care:** The board contains delicate electronic components. Avoid dropping or subjecting it to strong impacts.
- **Proper Storage:** When not in use, store the module in a cool, dry place, away from direct sunlight and extreme temperatures.



## TROUBLESHOOTING

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

- **Very Little or No Sound:**

- Check the polarity of the electret microphone connection to the 'IN' and 'GND' terminals. Reversing the polarity will significantly reduce or eliminate sound.
- Ensure the power supply voltage is within the 5V-12V range. Voltage below 5V will result in significantly reduced sound.
- Verify all connections are secure and correct according to the wiring diagram.

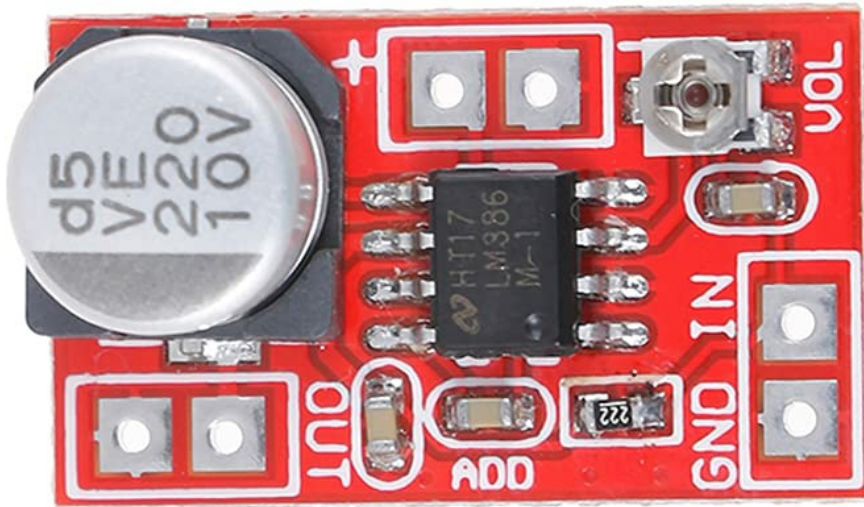
- **Self-Excited Noise (Feedback):**

- Ensure the speaker is positioned sufficiently far away from the microphone to prevent audio feedback.
- Check for proper shielding of the microphone cable.

- **Module Not Functioning / Damaged:**

- Verify that the DC power supply polarity is correct. Reversing the positive and negative connections will burn out the module.
- Ensure the input voltage does not exceed 15V.

## NOTE




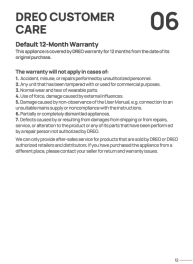


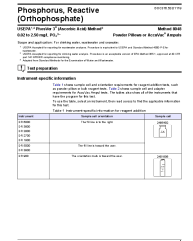

- 1. Amplifier board IN and GND use shielded cable access electret microphone, access to the attention of the polarity, the electret after the reverse will be very little or no sound**
- 2. Amplifier OUT board connected speakers, speakers away from the microphone, in order to avoid self-excited noise**
- 3. Power amplifier board positive and negative access 5 ~ 12V DC power supply, please do not reverse, otherwise it will burn out the module**

Image: Important notes for the amplifier board, emphasizing correct wiring and power supply to prevent damage and ensure proper function.

## WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact DKARDU customer service through the retailer where the product was acquired. Keep your proof of purchase for any warranty claims.

Related Documents - DR-US-672

	<p><a href="#">Oraimo OPN-672 User Manual and Specifications</a></p> <p>Comprehensive user manual and technical specifications for the Oramo OPN-672, detailing its features, usage, and care.</p>
	<p><a href="#">DREO Customer Care: Default 12-Month Warranty Information</a></p> <p>Understand the DREO 12-month limited warranty for your appliance. Learn what is covered and what conditions may void the warranty, including exclusions for misuse, tampering, and unauthorized repairs.</p>
	<p><a href="#">NAZARIO Aluminum Gate - Assembly and Instruction Manual</a></p> <p>This document provides detailed assembly instructions and part lists for the NAZARIO aluminum gate. It includes step-by-step guidance, diagrams, and essential information for installation and maintenance.</p>
	<p><a href="#">Tascam Pocket Guide: Full Product Range 2019</a></p> <p>Explore the comprehensive Tascam product range for 2019, featuring high-quality audio recorders, interfaces, and accessories. Discover detailed specifications and features for models like the DR-44WL, DR-22WL, DR-40X, DR-07X, DR-05X, DR-100 MKIII, DR-680 MKII, DR-10X, and DR-10C.</p>
	<p><a href="#">Hach PhosVer 3 Method for Reactive Phosphorus Analysis</a></p> <p>This document outlines the procedures for analyzing reactive phosphorus (orthophosphate) in water samples using Hach's PhosVer 3 method with either Powder Pillows or AccuVac Ampuls. It details instrument-specific information, test preparation, sample collection, powder pillow and AccuVac ampul procedures, interferences, accuracy checks, method performance, and required reagents and apparatus.</p>
	<p><a href="#">G21 Reno Double Door Gate Installation Manual</a></p> <p>Comprehensive installation manual for the G21 Reno double door gate (350x158 cm), detailing tools required, dimensions, parts list, and assembly steps. Available in multiple languages including English, German, Czech, Slovak, Hungarian, Polish, Croatian, and Slovenian.</p>