

## Moondrop Golden Ages 2

# Moondrop Golden Ages 2 MD-TWS-039 TWS Earphones User Manual

Comprehensive instructions for setup, operation, and maintenance.

## 1. INTRODUCTION

This manual provides detailed instructions for the Moondrop Golden Ages 2 MD-TWS-039 True Wireless Stereo (TWS) Earphones. Please read this manual carefully before using the product to ensure proper operation and to maximize your listening experience.



Image 1.1: Moondrop Golden Ages 2 TWS Earphones and Charging Case. The earphones feature a unique design with a cassette tape motif on the charging case.

## 2. PACKAGE CONTENTS

Verify that all items are present in the package:

- Moondrop Golden Ages 2 TWS Earphones

- Charging Case
- Protective Case
- Eartips (various sizes)
- USB-C Charging Cable
- User Manual (this document)
- Wearing Guidance
- Service Card

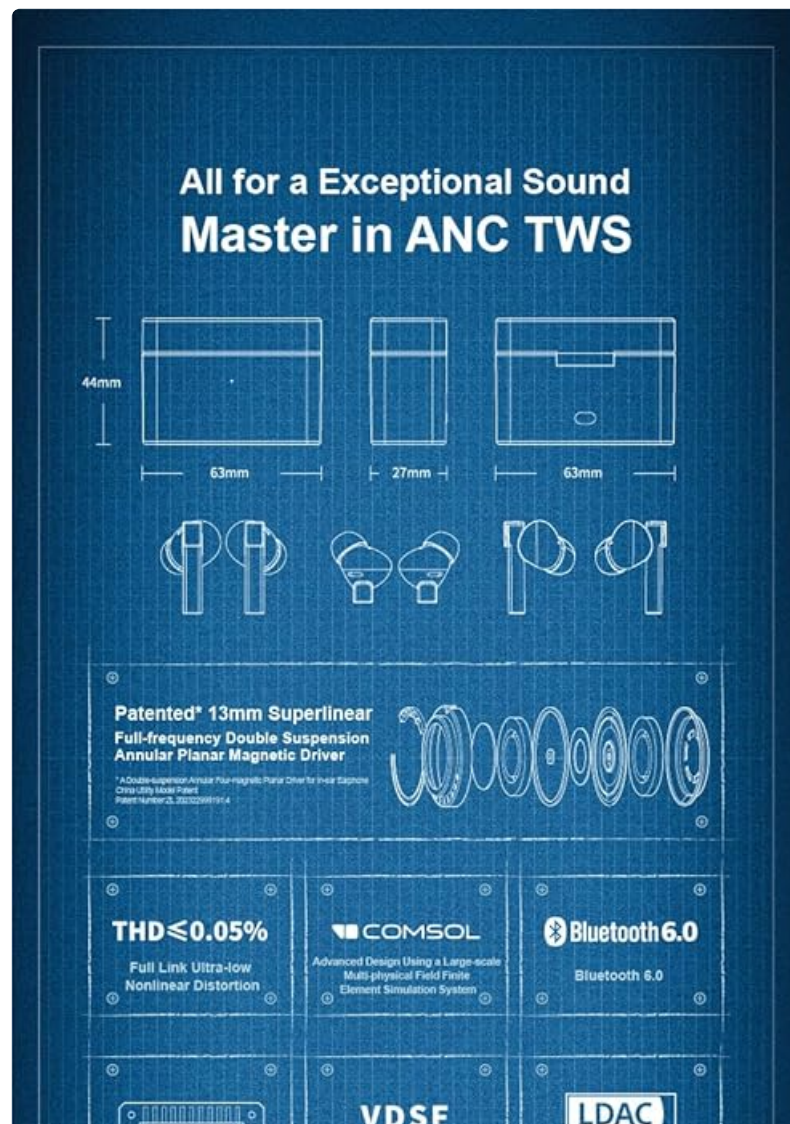
## 3. GETTING STARTED (SETUP)

### 3.1 Charging the Earphones and Case

Before first use, fully charge the earphones and charging case. Connect the provided USB-C cable to the charging case and a power source. The indicator light on the case will show charging status.

### 3.2 Wearing the Earphones

Select the appropriate eartip size for a comfortable and secure fit. A proper seal is crucial for optimal sound quality and Active Noise Cancellation (ANC) performance. Insert the earphones into your ears and gently twist them until they fit snugly.



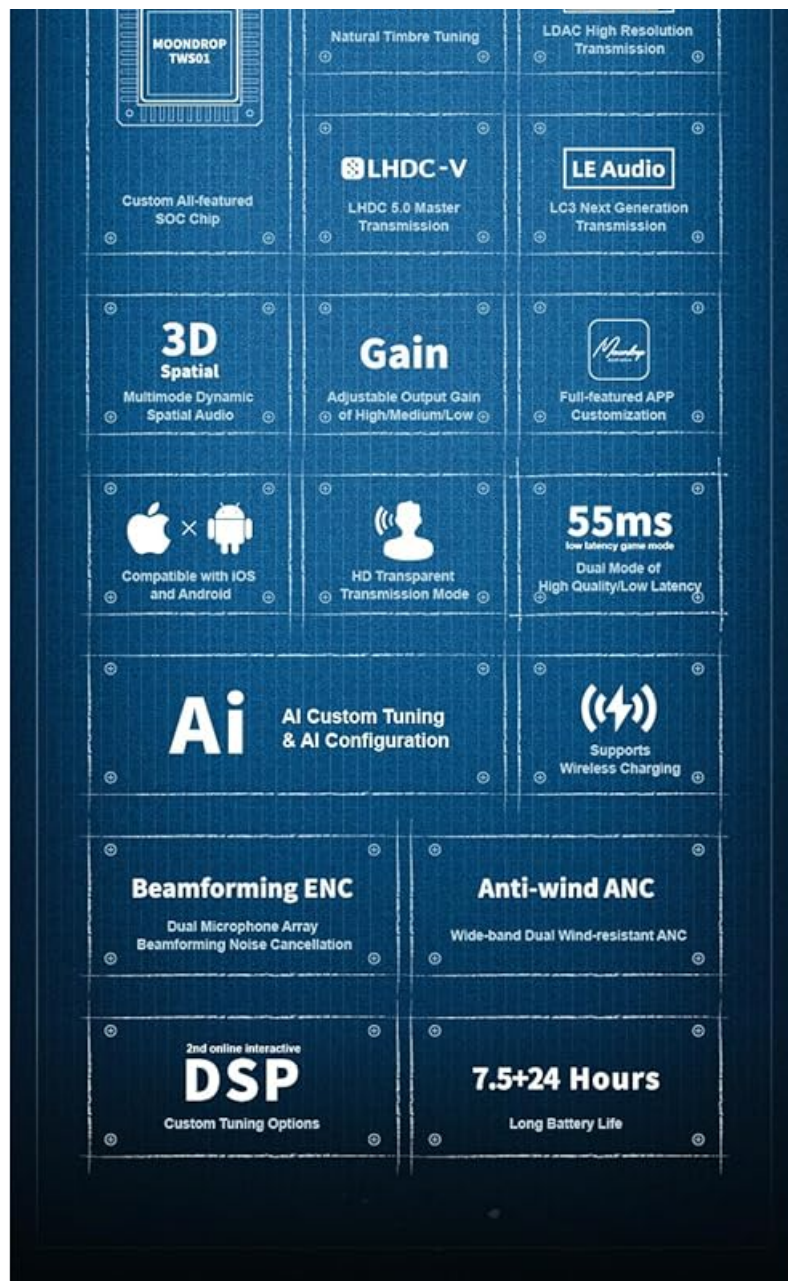


Image 3.1: Proper placement of the earphone in the ear for a secure and comfortable fit.

### 3.3 Initial Bluetooth Pairing

1. Open the charging case. The earphones will automatically enter pairing mode.
2. On your device (smartphone, tablet, etc.), enable Bluetooth.
3. Search for available Bluetooth devices and select "Moondrop Golden Ages 2".
4. Once connected, a confirmation sound will play.

## 4. OPERATION

### 4.1 Power On/Off

- **Power On:** Open the charging case, and the earphones will power on automatically.
- **Power Off:** Place the earphones back into the charging case and close the lid. They will power off and begin charging.



## 4.2 Touch Controls

The Moondrop Golden Ages 2 earphones feature customizable touch controls. Default functions typically include:

- Single tap: Play/Pause, Answer/End Call
- Double tap: Next Track, Reject Call
- Triple tap: Previous Track
- Long press: Switch ANC/Transparency Mode

For detailed customization of touch operations, refer to the Moondrop Link App.

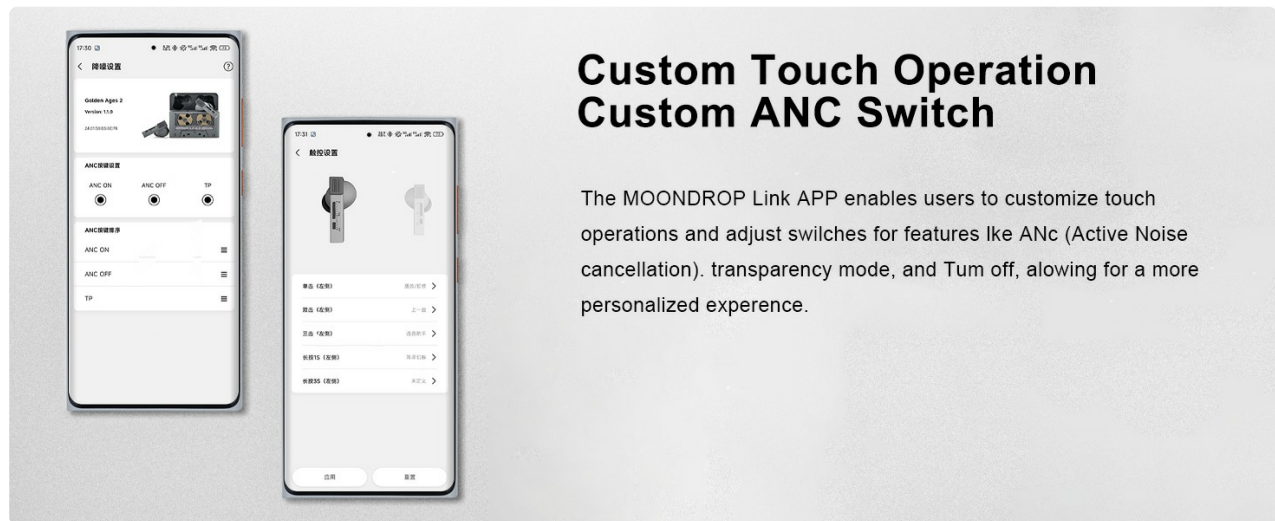


Image 4.1: Screenshot of the Moondrop Link App interface for customizing touch controls and ANC settings.

## 4.3 Active Noise Cancellation (ANC) and Transparency Mode

The earphones support Active Noise Cancellation (ANC) to reduce ambient noise and Transparency Mode to allow you to hear your surroundings. These modes can be toggled via touch controls or through the Moondrop Link App.

## 4.4 Moondrop Link App Features

The Moondrop Link App offers extensive customization and control:

- **DSP Graphic Interface:** Customize and debug the parameterized equalizer for precise audio tuning.
- **AI Customized Tuning:** The app includes an "AI Yuki Beta 0.1" feature that adapts the earbud's sound profile based on the music you are listening to.
- **Adjustable Output Gain:** Control the output gain for different listening preferences.

## Equipped with DSP Graphic Interface

Through the recently updated MOONDROP APP, users can customize and debug the parameterized equalizer in the Golden Ages 2's DSP using a new professional tuning interface that is more precise and user-friendly. This interface allows adjustments to parameters such as filter type, frequency point, gain, and Q value. Additionally, a original frequency response is available for reference during the tuning process, further enhancing usability and accuracy.

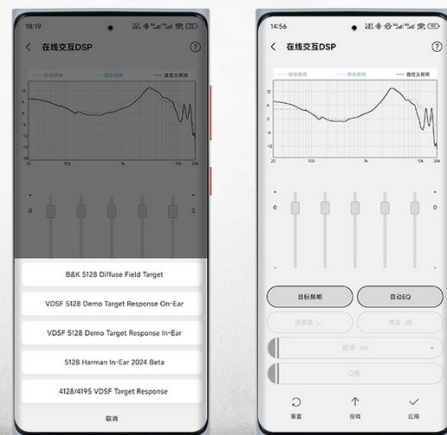


Image 4.2: Screenshot of the Moondrop Link App's DSP graphic interface for equalizer adjustments.

## 4.5 Spatial Audio Modes

The Golden Ages 2 features dynamic spatial audio, activated via the Moondrop App. Users can switch between three modes:

- **Static:** Fixed soundstage.
- **Small Angle:** Enhances binaural auditory positioning by adjusting for head movement.
- **Omni-directional:** Provides a 360-degree sound experience.



### 3D Spatial More Practical Multi-mode Dynamic Spatial Audio

Thanks to custom-made chips and built-in gyroscopes in the earbuds, the Golden Ages 2 can activate a specially tuned "dynamic spatial audio" feature through the MOONDROP app. Users can easily switch between three modes: "static," "small angle," and "omni-directional." Notably, the innovative "small angle" design enhances binaural auditory positioning by adjusting for head movement, ensuring the correct orientation of audio images during the movement. This feature is particularly practical for reproducing sound in various settings.

Image 4.3: Visual representation of the 3D Spatial Audio feature and its multi-mode functionality.

## 4.6 Dual-Device Connectivity

The earphones support simultaneous connection to two devices. This allows for seamless switching between audio sources without manual re-pairing. This feature can be enabled and configured within the Moondrop Link App, including setting a timeout for connection to prevent unintended connections.



Image 4.4: Illustration of the dual-device connectivity feature, showing simultaneous connection to a phone and a tablet.

## 4.7 Low-Latency Game Mode

For gaming, the Golden Ages 2 offers a low-latency mode, reducing signal transmission delay to as low as 55ms. This mode can be activated via the Moondrop Link App or by tapping the earphones four times.

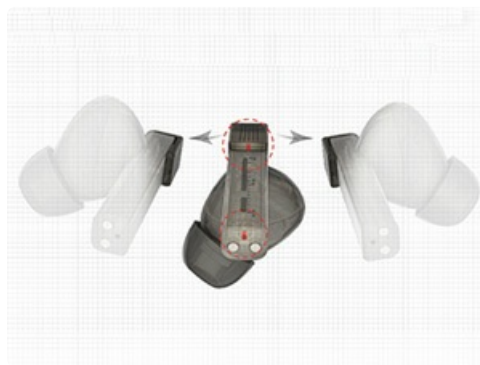


Image 4.5: The Moondrop Golden Ages 2 earphones connected to a portable gaming device, illustrating the low-latency game mode.

## 4.8 Audio Codecs

The earphones support multiple high-quality audio transmission protocols:

- **LDAC:** High-definition lossless audio transmission protocol, supporting up to 24bit/96kHz. Requires manual activation in the Moondrop App and may cause the earbuds to restart.
- **LHDC-V:** Super-definition master-level adaptive audio transmission protocol. Enabling LHDC may increase power consumption and battery drain. If distortions occur, switch to AAC.
- **LC3:** Low-latency high-definition audio transport protocol, designed for next-generation Bluetooth LE Audio. Operates differently from classic Bluetooth and requires manual activation in the Moondrop App.

# 5. MAINTENANCE

## 5.1 Cleaning

Regularly clean the earphones and charging case to maintain performance and hygiene:

- Use a soft, dry, lint-free cloth to wipe the exterior of the earphones and case.
- Remove eartips and clean them with mild soap and water, then dry thoroughly before reattaching.
- Gently remove any earwax or debris from the earphone nozzles using a small, soft brush or cotton swab.

### 5.2 Storage

When not in use, store the earphones in their charging case to protect them from dust, damage, and to keep them charged.

## 6. TROUBLESHOOTING

If you encounter issues with your Moondrop Golden Ages 2 earphones, refer to the following common solutions:

- **No Sound/Poor Sound Quality:**
  - Ensure earphones are properly charged and connected.
  - Check eartip fit for a secure seal.
  - Clean earphone nozzles if blocked by debris.
  - If using LHDC, and experiencing distortions, try switching to AAC in the app.
- **Pairing Issues:**
  - Ensure Bluetooth is enabled on your device.
  - Place earphones back in the case, close, then reopen to re-enter pairing mode.
  - Forget the device in your phone's Bluetooth settings and re-pair.
- **Moondrop Link App Connectivity Issues:**
  - Ensure the app is updated to the latest version.
  - Restart the app and your device.
  - Verify that the earphones are connected to your device via Bluetooth.
- **LDAC/LHDC/LC3 Not Working:**
  - These codecs must be manually enabled in the Moondrop Link App.
  - Enabling these codecs will cause the earbuds to restart.
  - Compatibility may vary across different mobile phones.

## 7. SPECIFICATIONS

Feature	Detail
Model Name	Golden Ages 2
Connectivity Technology	Wireless (Bluetooth)
Bluetooth Version	6.0



Bluetooth Range	10 Meters
Audio Codecs Supported	LDAC, LHDC-V, LC3, AAC, SBC
Noise Control Features	Active Noise Cancellation, Transparency Mode
Control Method	App (Moondrop Link)
Battery Life (Earphones)	Up to 8 Hours (per charge)
Driver Type	13mm Planar Magnetic Driver
Input Device Interface	USB-C
Material	Plastic, Silicone
Item Weight	11.4 ounces (total package)
Manufacturer	MOONDROP



### Superlinear Full-frequency Double-suspension Annular 13mm Planar Magnetic Driver

A newly designed 13mm planar magnetic driver with an annular magnetic circuit and annular diaphragm, in conjunction with a magnetic circuit array composed of several N55 high-performance neodymium magnets, together with an annular tiled driving circuit, delivers an effective driving range much larger than that of a dynamic driver, and greatly reduces distortion through its innovative double suspension system, further reducing split vibration by adding a rigid equalizing structure, resulting in an amazing large dynamic and wide-band low distortion under the low power consumption drive of TWS.

\* A Double-suspension Annular Four-magnetic Planar Driver for In-ear Earphone  
China Utility Model Patent  
Patent Number: ZL 202322999191.4

Image 7.1: Exploded view diagram of the Superlinear Full-frequency Double-suspension Annular 13mm Planar Magnetic Driver.



### Custom, High-performance Audio SOC Chip MOONDROP TWS-01

To provide a complete audio transmission protocol and advanced audio optimization functions, we have customized this TWS SoC chip using a 22nm process from a well-known wireless audio chip manufacturer. This chip not only delivers an analog audio output of 25mW + 25mW with a signal-to-noise ratio as high as 106dB but also supports a variety of audio features in the Golden Ages 2.



Image 7.2: Diagram illustrating the custom, high-performance Audio SOC Chip MOONDROP TWS-01.





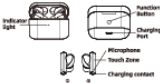
## 8. WARRANTY AND SUPPORT

The Moondrop Golden Ages 2 earphones come with a standard manufacturer's warranty. Please refer to the included Service Card for specific warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please visit the official Moondrop website or contact their customer service department. You can also find additional resources and FAQs on the [Moondrop Store on Amazon](#).

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## Related Documents - Golden Ages 2

<div data-bbox="173 786 252 822">  </div> <div data-bbox="197 864 229 871"> <p>INSTRUCTIONS</p> </div>	
<div data-bbox="132 904 177 916"> <p>Package list</p> </div> <div data-bbox="132 920 247 927"> <p>(The pictures are for reference only, please refer to the actual product.)</p> </div> <div data-bbox="138 952 288 1016">  </div>	
<div data-bbox="138 1057 215 1066"> <p>Product Description</p> </div> <div data-bbox="138 1081 298 1162">  </div> <div data-bbox="132 1169 295 1182"> <p>Note: 1. Do not recommend to use and then charging earbuds for daily usage. 2. Do not recommend to use for long-term use. Use with caution.</p> </div>	
<div data-bbox="132 1207 177 1216"> <p>Connection</p> </div> <div data-bbox="132 1227 295 1328"> <p><b>Connecting with new device</b></p> <ol style="list-style-type: none"> <li>1. Put the earbuds into the charging case and keep the lid open.</li> <li>2. Long press the function button on the charging case for 3 seconds till two indicator light flash within 3 times and power 1.8 Hz, the earbuds will start.</li> <li>3. In pairing mode, the indicator flash while 7 times means the device is linked.</li> <li>3. Turn on the Bluetooth, after the list is refreshed click the "Golden Ages" on the list for pairing.</li> </ol> <p>*When first time using the Bluetooth headset (SBC, AAC) phones put the earphone in the charging case, close the lid, contact the USB-C charging cable, and charge the earphone.</p> </div>	
<div data-bbox="132 1357 177 1366"> <p>Connection</p> </div> <div data-bbox="132 1377 295 1478"> <p><b>Automatically connection</b></p> <p>When the earphone is turned on, it will automatically connect to the last connected device which has Bluetooth pairing record if it is in range.</p> <p><b>Out of distance disconnect and auto reconnect</b></p> <p>When the device is connected with earphones, if it disconnects for over Bluetooth effective range. The earphones will try connect back to the device within 3 minutes when it is in connection range.</p> <p>*If the earphones cannot be automatically connected to the device, it needs to be manually connected to the Bluetooth list of the device.</p> </div>	
<div data-bbox="132 1507 177 1518"> <p>Connection</p> </div> <div data-bbox="132 1527 295 1628"> <p><b>Disconnect the current connected device</b></p> <p>When in pairing:</p> <p>Make sure the earphones are in the charging case and keep the charging case lid open. Pressing the function button on the case for 3 seconds. The earphones will be disconnected from the current device and enter the pairing mode.</p> <p>When in pairing:</p> <p>Press and hold both touch zone on the earphones for 3 seconds or wait for time to disconnect current device and enter pairing mode.</p> <p><b>Battery level</b></p> <p>Color: "Green" (fully charged), "Yellow" (low battery)</p> </div>	
<div data-bbox="132 1662 177 1671"> <p>Connection</p> </div> <div data-bbox="132 1682 295 1760"> <p><b>Put the earphones back to charging case and keep the charging case lid open.</b></p> <p>When the earphones are in the charging case and keep the charging case lid open, press the function button on the case for 10 seconds to clear pairing information and restore the pairing mode (The orange light will be flash once to indicate the action is successful otherwise the orange light will not flash).</p> <p><b>Note:</b> Due to the connection characteristics of Bluetooth signals, it is possible that after the earphones are disconnected, there may be occasional intermittent disconnection or no signal.</p> </div>	
<div data-bbox="132 1807 158 1818"> <p>Usage</p> </div> <div data-bbox="132 1827 295 1930"> <p><b>Charging</b></p> <p>Put the earphones in the charging case and it will automatically start charging.</p> <p>*When the battery of charging case is more than 10%, the green light will be always on until the earphones is fully charged.</p> <p>*When the battery of charging case is lower than 10%, the orange light will be always on until the earphones is fully charged or the case is out of power.</p> <p><b>Charging the case</b></p> <p>Put in the charging cable.</p> <p>The orange light will be flashing when in charging.</p> </div>	
<div data-bbox="132 1960 158 1971"> <p>Usage</p> </div> <div data-bbox="132 1980 295 2089"> <p>The green light will be flashing for 3 seconds after the case is fully charged then power.</p> <p><b>Check battery</b></p> <p>To check remaining battery of the charging case, press the function button on the charging case. The light will flash once with different colors.</p> <p>Green light: The battery is more than 10%.</p> <p>Orange light: The battery is less than 10%.</p> <p><b>Low battery alarm for charging case</b></p> <p>Open the lid of the charging case and short press the function button, the orange light will flash 10 times.</p> </div>	
<div data-bbox="132 2112 158 2123"> <p>Usage</p> </div> <div data-bbox="132 2132 295 2148"> <p>When the orange light won't be flashing, the earphones won't be charging and the case will only keep the earphones in pairing mode.</p> </div>	

turn on	10
Turn off	10
Turn off (optional): Automatic shutdown when the device is not connected for more than 3 minutes.	10
Low power mode: Low power mode will activate when the battery voltage is lower than 8.80V.	10
Usage	10
Noise cancelling mode switching	10
Touch One	11
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[Moondrop Golden Ages True Wireless Earphones User Manual](#)

Comprehensive user manual for Moondrop Golden Ages true wireless earphones, covering package contents, product description, connection setup, usage instructions, functions, technical specifications, and essential security warnings.

The radio frequencies emitted by this device may interfere with certain hearing aids and cochlear implants. Before using this equipment, please consult the physician or specialist who has prescribed it. It is not recommended to use this equipment in the presence of implanted medical devices (pacemakers, defibrillators, etc.).

Do not use the device near radio frequency devices or infrastructure (such as mobile phones or radio antenna towers). Radio frequency may cause device malfunction.

Use of the device is prohibited in explosive environments. Always operate in accordance with regulations, instructions and signs for use in explosive environments.

Do not use the equipment in gas detectors or near flammable materials, chemical agents and explosive areas.

#### Security Instructions

Do not store or carry flammable liquids, gases or explosive materials in boxes containing device or accessories.

If any part of the device is damaged, swollen, or smelly, stop using it. Do not touch the damaged part. The equipment can still be reused until being repaired by the manufacturer's service center.

Children ages may hurt your hands and face.

If the device emits smoke or the smell of burning things, it may cause the battery to explode or burn.

Please observe all safety warnings and regulations regarding the use of equipment in the vehicle.

Driving while in your primary responsibility while driving, if possible by law, please do not use the device while driving. For the safety of you and others, please follow the safety

#### Security Instructions

**warnings and relevant regulations and remember the following:**

- Keep the equipment in an air-conditioned vehicle. Do not leave it left away from the road to get the window dirty.
- In order to avoid danger, please do not let traffic drive under weather conditions (fog, rain, snow, ice, heat and rain).
- Do not exceed traffic rules and speed limits.
- Do not exceed speed limits, because it may cause damage while driving, especially if you have been in the primary responsibility of driving.
- According to the traffic situation, decide whether to answer the call. Consider the danger of the road and the safety of the vehicle. Try to avoid driving in the rain.
- Do not engage in serious or critical conversations to avoid

#### Security Instructions

**distraction.** Please let the caller know that you are driving.

Properly maintain and use equipment.

Keep the equipment dry.

Do not use the device when it is wet. If the device is turned on, turn it off. If the device cannot be turned off, please maintain the device open. Then dry the equipment with a towel or clean the dust. Do not use the device in the rain.

The equipment is equipped with a built-in liquid indicator. Water damage to the equipment will invalidate the manufacturer's warranty.

The device should be stored on a flat ground. If the device falls, it will be damaged.

The device can be used where the atmosphere temperature is

#### Security Instructions

between 0°C and 35°C. You can store the device when the ambient temperature is between -30°C and 30°C. Storing or using the device outside the recommended temperature range may cause damage to the device or shorten battery life.

Do not store the device in a container that is not airtight. Do not store the device in a container that is not airtight. Do not store the device in a container that is not airtight.

Do not expose the device to direct sunlight for a long time, such as in the sunlight of a car. Do not store the device with metal objects such as coins, keys, paper, etc.

The device may be damaged or malfunction.

If the battery contacts come in contact with metal objects, it may cause a fire.

**Do not store the device near magnetic fields.**

#### Security Instructions

After exposure to a magnetic field, the device may malfunction or the battery may discharge.

Magnetic fields (including small magnets, phone cards, bank cards and credit cards) may damage the equipment. Do not use the device near magnetic fields. Do not use the device near magnetic fields. Do not use the device near magnetic fields.

Observe the use of the device in the following situations:

- Do not use the device for a long time, pay attention to the heating of the device and avoid contact with the skin for too long.
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- Do not use the device for a long time, pay attention to the heating of the device and avoid contact with the skin for too long.

#### Security Instructions

Please pay special attention when using it by children, the elderly, pregnant women and people with hearing aids.

Children exposed to strong sounds can cause hearing loss. Contact with strong sounds while wearing may damage your ears and hearing.

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Children exposed to strong sounds can cause hearing loss. Contact with strong sounds while wearing may damage your ears and hearing.

#### Security Instructions

**the warning:**

- Do not use headphones while driving or riding a horse.
- Do not use headphones while driving or riding a horse.
- Do not use headphones while driving or riding a horse.

Procedures for using the device in the following situations:

- Always pay attention to your surroundings to avoid hearing potential effects.
- Do not use the device for a long time, pay attention to the heating of the device and avoid contact with the skin for too long.
- Do not use the device for a long time, pay attention to the heating of the device and avoid contact with the skin for too long.

#### Security Instructions

Do not place equipment and accessories in or near the driving area. If the equipment is not properly placed, the driving license may be damaged or the equipment may be damaged or malfunction.

Do not use the device in the following situations:

- Do not use the device in the following situations.
- Do not use the device in the following situations.
- Do not use the device in the following situations.

#### Security Instructions

The battery can only be used for the designated purpose. Do not use the battery for other purposes. Do not use the battery for other purposes. Do not use the battery for other purposes.

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#### Security Instructions

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- Do not use the device in the following situations.

#### Security Instructions

The performance may deteriorate. If the device cannot be used, please contact the manufacturer or the service center.

Do not use the device for any purpose other than the designated purpose.

Do not use the device for any purpose other than the designated purpose.

Do not use the device for any purpose other than the designated purpose.

#### Security Instructions

of the content owner. This document is not copyright law. The manufacturer is not responsible for any legal actions caused by any illegal actions by users against copyright content.

Do not use the device for any purpose other than the designated purpose.

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#### Security Instructions

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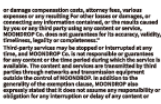
Do not use the device for any purpose other than the designated purpose.

Do not use the device for any purpose other than the designated purpose.

#### Security Instructions

Do not use the device for any purpose other than the designated purpose.





### Security instructions

service applicable to this device.

MOONBOP Co has neither responsibility nor obligation for customer service involving content and services. Any service requirements related to content or services should be directly borne by the content and service providers.

### Security instructions

Name	Hazardous physical/chemical substances					
	RoHS (2002/95/EC)	REACH (2006/1825/EC)	RoHS (2002/95/EC)	REACH (2006/1825/EC)	RoHS (2002/95/EC)	REACH (2006/1825/EC)
Electronics	Y	Y	Y	Y	Y	Y
Automotive	Y	Y	Y	Y	Y	Y
Construction	Y	Y	Y	Y	Y	Y
Medical	Y	Y	Y	Y	Y	Y
Consumer	Y	Y	Y	Y	Y	Y
Industrial	Y	Y	Y	Y	Y	Y

**FCC Warning**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, it can be determined by turning the equipment

**FCC Warning**

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician.

**FCC Warning**

Operation is subject to the following two conditions:  
(1) This device may not cause harmful interference,  
and  
(2) this device must accept any interference received,  
including interference that may cause undesired  
operation.  
This equipment complies with FCC radiation exposure  
limits set forth for an uncontrolled environment.  
This equipment should be installed and operated with  
minimum distance between the radiator and your  
body.



## MOONDROP MD-TWS-040 FCC Part 15 Subpart C Test Report - Wireless Earphones

Official FCC Part 15 Subpart C test report for the MOONDROP MD-TWS-040 wireless earphones, detailing conducted and radiated emissions, output power, spectral density, bandwidth, and antenna requirements.





# Nekocake True Wireless Stereo Earbuds User Manual

Comprehensive user manual for the Nekocake True Wireless Stereo Earbuds by Moondrop, covering introduction, packing list, product description, connection, usage, functions, specifications, and safety instructions.



## MOONDROP PILL Ear-clip Earbuds User Manual

Comprehensive user manual for the MOONDROP PILL Ear-clip Earbuds (Model: MD-OWS-003), detailing setup, functions, specifications, safety precautions, and FCC compliance information.

 <p>Full-scene HiFi In-ear Monitors User Manual</p>	<p><a href="#">Moondrop Aria 2 Hi-Fi In-ear Monitors User Manual</a></p> <p>User manual for the Moondrop Aria 2 Full-scene HiFi In-ear Monitors, covering how to wear, storage, notices, and after-sales terms.</p>
 <p>MOONDROP MIAD MOBILE INTERNET AUDIO DEVICE USER MANUAL</p>	<p><a href="#">MOONDROP MIAD Mobile Internet Audio Device User Manual</a></p> <p>User manual for the MOONDROP MIAD Mobile Internet Audio Device, covering setup, operation, safety, and warranty information.</p>