

## 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

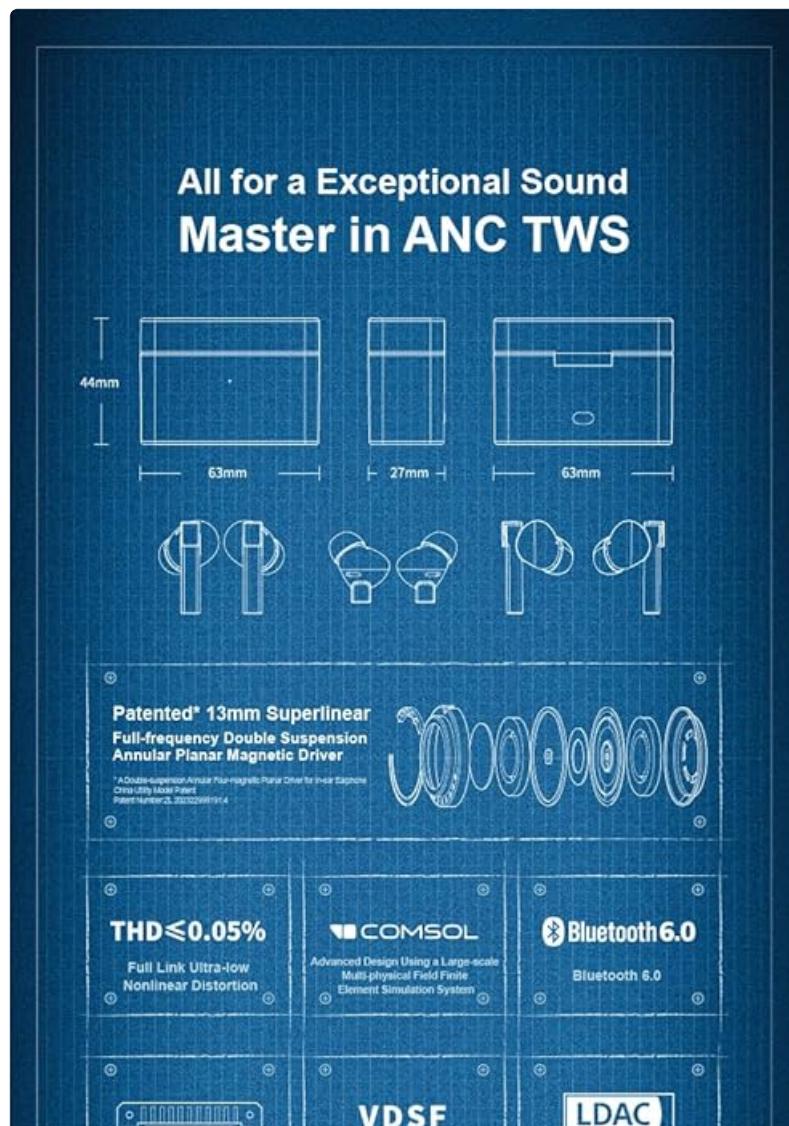
## 3. GETTING STARTED (SETUP)

### 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.



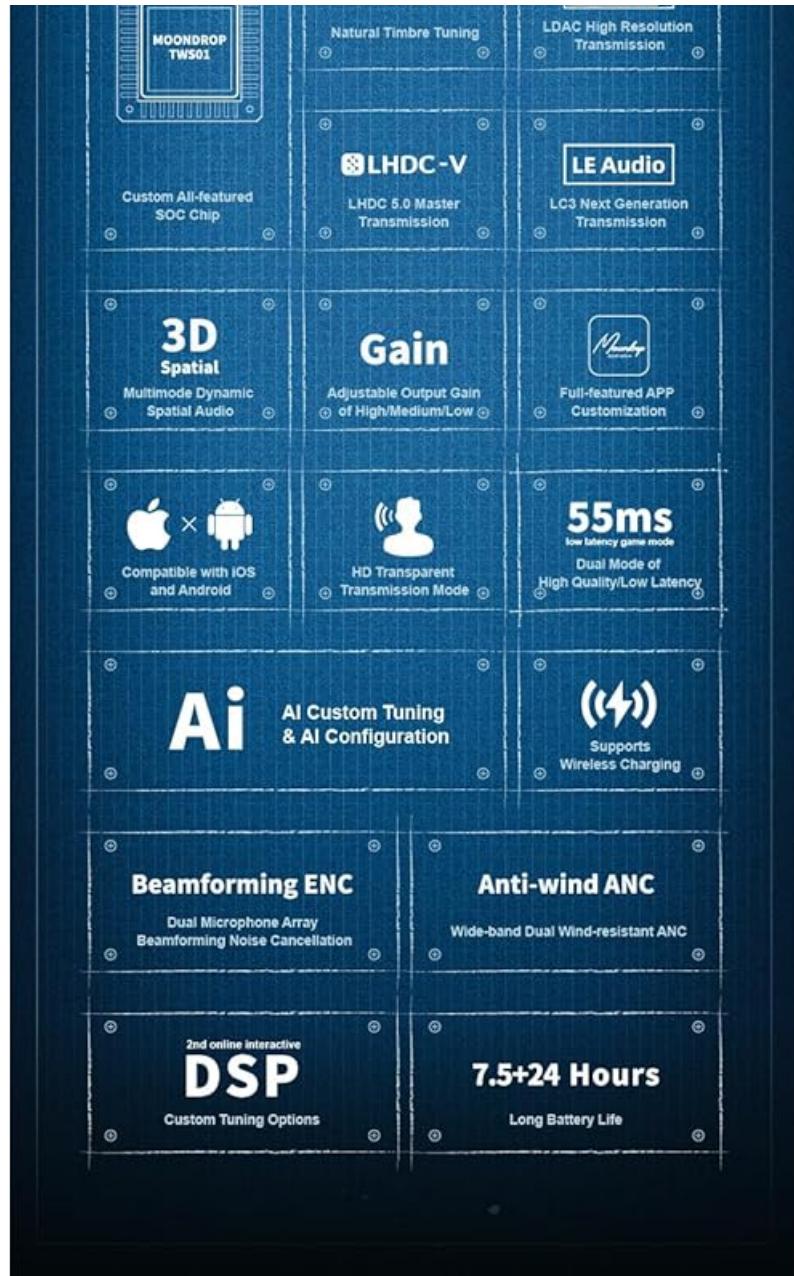


Image 3.1: Proper placement of the earphone in the ear for a secure and comfortable fit.

### 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.

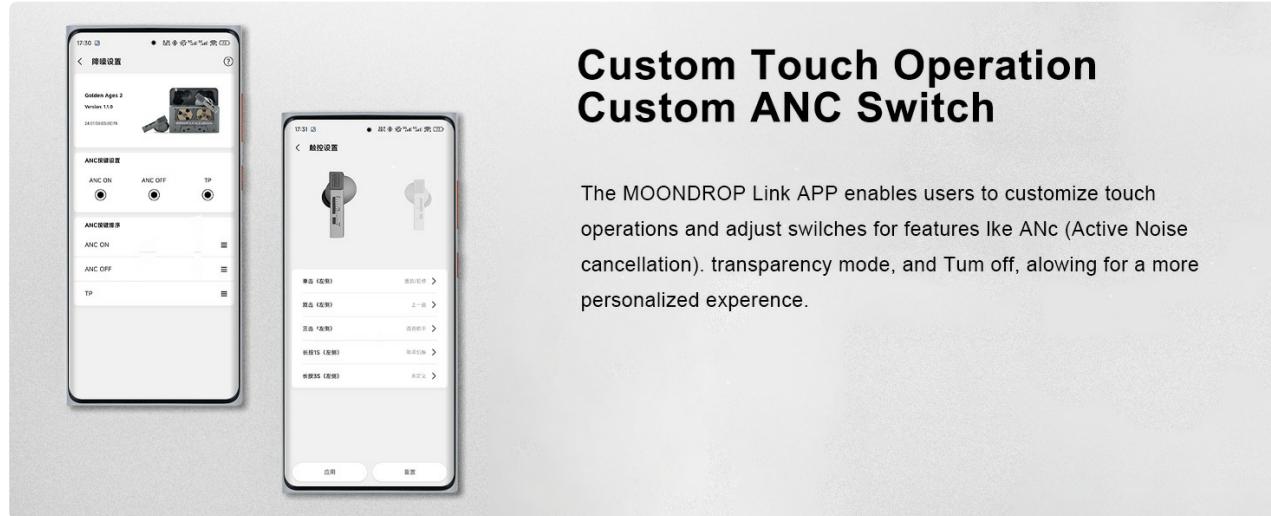


Image 4.1: Screenshot of the Moondrop Link App interface for customizing touch controls and ANC settings.

## 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.



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.

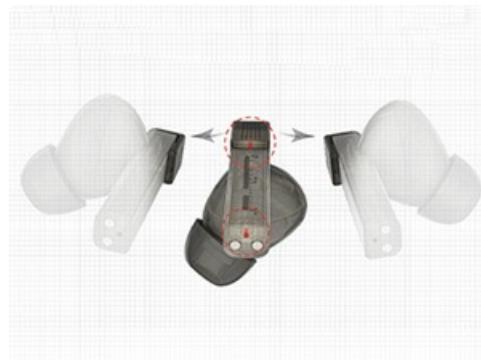


Image 4.5: The Moondrop Golden Ages 2 earphones connected to a portable gaming device, illustrating the low-latency game mode.

## 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



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

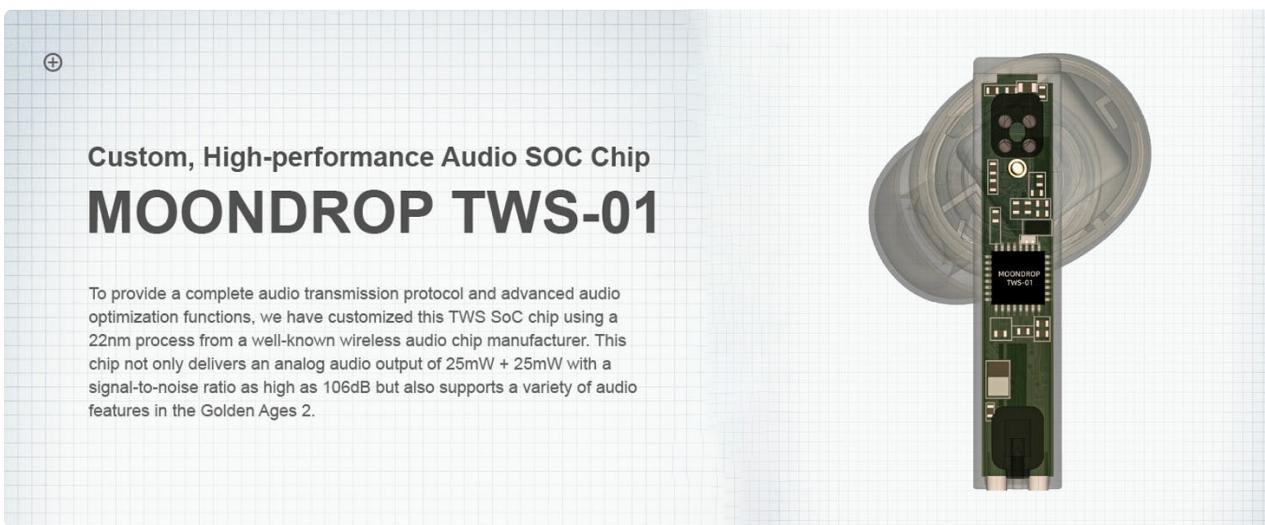


Image 7.2: Diagram illustrating the custom, high-performance Audio SOC Chip MOONDROP TWS-01.

## 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

**Golden Ages**  
真无线蓝牙耳机

**Instructions**

**Package list**

(Includes the following items in the retail products)

- Charging case "1"
- Earphones "2" (x2)
- Microphone
- Storage bag
- Manual

**Product Description**

Indicator light  
Pincushion bullet  
Charging port  
Microphone  
Tooth zone  
Charging contact

It is recommended to open and close charging case 2-3 times for safety usage.  
2. It is recommended to turn on the headphones 3-5 times for the first time.

**Connection**

**Connecting with new device**

- Put the earphones into charging case and close the lid open.
- Open the lid of the charging case and press and hold the "Tooth zone" button for 3 seconds till the indicator light flash white 3 times and press "1" 3 times. The indicator light will be in the blue color and the indicator light will be in the blue color. If the indicator light flash white 7 times means the action is successful.
- Put the earphones into the tooth zone, after the lid is closed click the "Golden Ages" on the lid for pairing.

\*Please first time using the Moondrop Golden Ages 2 (GD-11) please open the lid of the charging case and close the lid, connect the USB-C charging cable, and charge the earphone.

**Connection**

**Automatically connection**

When the earphone is turned on, it will automatically connect with the last connected device which has Bluetooth using paired. If it's in range.

**Out of range connection and data transmission**

When the earphone is connected with devices, it's disconnected by over Bluetooth effective range. The earphones will automatically connect with the last connected device. If it's in the connection range, the earphones can be automatically connected to the device, it needs to be manually connected in the Bluetooth list of the device.

**Connection**

**Disconnect the current connected device**

**When not in use**

Make sure the earphones are in the charging case and keep the lid closed. Open the lid of the charging case and press and hold the "Tooth zone" button for 3 seconds. The earphones will be disconnected from the connected device. When is not using:  
Please turn off the earphones for 3 seconds at same time to disconnect current device and enter pairing mode.

**Factory Reset**

**Device -> Golden Ages -> factory (smooth panel) (a).**

**Connection**

Put the earphones back to charging case and keep the charging case closed. Open the lid of the charging case and press and hold the "Tooth zone" button for 3 seconds to clear pairing information and enter into pairing mode. The indicator light will be in the blue color. If the indicator light is successful otherwise the orange light will not turned on.

\*Due to the connection characteristics of Bluetooth signals, an occasional disconnection may occur. If the connection is frequently disrupted, there may be occasional intermittent disconnection or no sound.

**Usage**

**Charging**

Put the earphones in the charging case and it will automatically charge.  
\*When the battery of charging case is more than 10%, the green light will be always on until the earphones is fully charged.

\*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.

**Charging the case**

Put the earphones in the case  
The orange light will be flashing when in charging.

**Usage**

The green light will be flashing for 5 seconds after the case is fully charged then pause.

**Check battery**

Open the lid of the charging battery of the charging case, press the function button on the charging case. The light will flash once when the battery is more than 10%  
Green light: The battery is more than 10%  
Orange light: The battery is less than 10%

**Use function button for charging case**

Open the lid of the charging case and short press the function button, the orange light will flash for 5 seconds.

**Usage**

(Now the orange light won't be flashing, the earphones won't be charging and the case will only keep the earphones floating down)



This radio frequency device may interfere with certain hearing aids and cochlear implants. Before using the equipment, please contact the manufacturer to determine whether the equipment will be affected by the radio frequency signal emitted by this device.

Do not use the device near radio sensitive devices or instruments [such as audio systems or radio antennas towers].

Radio frequency may cause device malfunction.

- Turn off the device in a potentially explosive environment.
- Always operate in accordance with regulations, instructions and signs in explosive environments.
- Do not use the equipment in gas stations or near flammable materials, chemical agents and explosive areas.

### Security Instructions

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

If any part of the device is damaged, smokes, or smells of burning (please, do not use the device immediately). Then, turn off the device, remove and replace it being repaired by the MOBILETOP Service Center.

• Broken glass may hurt your hands and face.

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

• Do not use the device in areas with regulations regarding the use of equipment while driving.

Driving safety is your primary responsibility while driving. If prohibited 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:
  - face the equipment in an easy-to-access location. No need to keep away from the road to get the wireless device.
  - in order to avoid damage, pause the call in traffic jams or bad weather conditions. Stop, switch to train and sleep, or take a break to have a rest before driving.
  - do not reward voice messages. Regarding a language norm driving prevents you from focusing on the primary task of driving.
  - according to the traffic situation, decide whether to answer the call reasonably. Answer calls when not moving forward or in a traffic jam. Try to call after parking.
  - do not engage in incoherent or exciting conversations to avoid

### Security instructions

- distraction. Please let the caller know that you are driving. Proper materials and use equipment. Keep the equipment dry. Avoid water damage and damage equipment parts or circuits. **On or turn on the device when it is wet.** If the device is turned on, turn it off if the device cannot be made to read, please validate the unit states again. Then dry the equipment with a towel and turn it on again. **Do not use the device when it is wet.** This equipment is equipped with a built-in liquid detector. Water damage to the equipment will invalidate the manufacturer's warranty. **The device must be stored on a flat ground.** If the device is stored, it will be damaged. **The device can be used where the atmosphere temperature is**

#### Security Instructions

between 10°C and 35°C. You can store the device where the ambient temperature is between -30 °C and 80 °C, using or storing the device outside the recommended temperature range will shorten the device's life.

- Do not store the device in extremely hot areas, such as in a car in summer; otherwise, the equipment may be damaged or the battery may explode.
- Do not expose the device to direct sunlight for a long time, such as on the dashboard of a car. Do not store the device with metal objects such as coins, keys and needles.
- The device must not be stored in a cold environment.
- 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

- When exposed to a magnetic field, the device may malfunction or the battery may discharge.
- Magnetic stripe cards (including credit cards, phone cards, bank books and hearing aid cards) may be damaged by magnetic fields.
- Do not use the device near a television, computer, microwave oven, or other electronic equipment. Otherwise it may cause low temperature burns, redness and skin pigmentation.
- After using this device for a long time, pay attention to the heat generated, as the device can overheat when left for too long.
- Do not sit on the device, or keep in direct contact with your body during the device's charging or connected to the power source.
- High temperature resistance series from person to person.

### Emergency instructions

Please pay special attention when using it by children, the elderly, or those with hearing and ears when using earbuds. Excessive exposure to strong sounds can cause hearing loss. Contact with strong sounds while walking may distract you and cause accidents.

Turn down the volume before using earbuds, and use only the lowest volume required to listen to conversations or music.

Turn off earbuds when you are not using them, and remove the earbuds for a long time, it may cause hearing loss. Please keep the earbuds dry and clean.

In a dry environment, static electricity may accumulate on the earbuds. In a wet environment, or when touching metal objects, it discharge static electricity before using earbuds.

### Ensuring Inclusiveness

- the earplug.
- Do not use headphones while driving or riding a horse. Otherwise, it may distract you and cause accidents. Depending on your ears, this may also be illegal.
- Precautions for using the device during walking or running: Be aware of your surroundings to avoid having people or others.
- Do not paint or paste paper on the equipment.
- If you are allergic to the paint or metal parts of the device, it may cause itching, scarring or swelling of the skin. If any of these symptoms occur, please stop using the device and consult a doctor.
- Install the device carefully.

## Answers to the questions

- Do not place equipment and accessories in or near the sliding deployment arms. If the equipment is improperly placed, the sliding arms might impact it, which can cause serious injury.
- Do not drop the device or cause seizures
- The device may be damaged or malfunction.
- Do not drop the device on a hard surface. It may damage the equipment or cause parts malfunctions.
- Do not leave the longest service life of the battery and charger if the battery is not used for a long time, the battery may damage or even catch fire.
- The equipment will discharge if left unused for a long time, and must be recharged before use.
- When the equipment is not in use, disconnect the power supply.

#### **SECURITY INSTRUCTIONS**

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- Follow all the instructions in this manual to ensure the longest service life of the device and battery. The manufacturer will not provide warranty for damage or poor performance caused by failure to follow the warnings and instructions.
- The equipment may wear out over time. Although some parts and repairs are guaranteed during the validity period, damage or deformation caused by the use of unapproved accessories is not covered by the warranty.
- Do not disassemble, modify or repair the equipment.
- Any changes or modifications to the equipment will cause the manufacturer to not guarantee the equipment. For repairing, please contact your local HONOR® authorized dealer.

**Security instructions** 33

- case an explosion or fire.
- do not disassemble or reuse the battery.
- When cleaning the equipment, please follow the following **Measures**:
- Use a soft and dry cloth to wipe the device, use a brush or other tools to remove the network or dirt on the surface.
- Clean the battery contacts with a dry cloth.
- Do not use sharp metal tools. Otherwise, the surface of the equipment may be damaged or corroded, and it may also cause electric shock or static.
- Prevent the equipment from contact with dust, sweat, ink, oil, water, and other liquids. Do not use the equipment in environments with high humidity, high temperature, high pressure, high winds, benzene solvents, detergents and insecticides. Otherwise, the equipment may be damaged.

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the performance may deteriorate. If the device comes into contact with any of the above-mentioned substances, please wipe it with a soft, lint-free cloth.

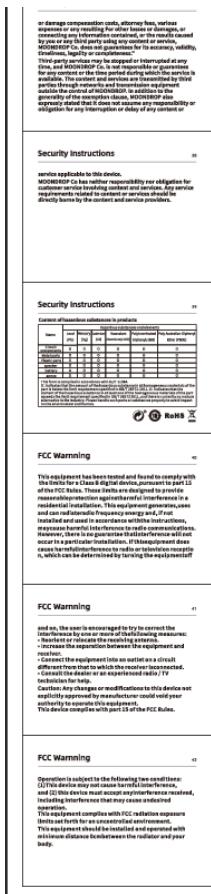
Only qualified personnel are authorized to use this equipment. If the equipment is required by a government contract, it may be furnished to the contractor.

**Security Instructions**

Manufacturer is not responsible for any illegal actions by users.

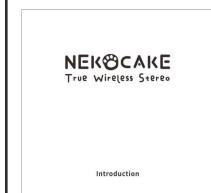
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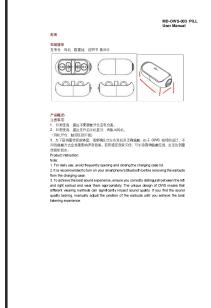
## [MOONDROP MD-TWS-040 FCC Part 15 Subpart C Test Report - Wireless Earphones](#)

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.



Full-scene HiFi In-ear Monitors  
User Manual

### [Moondrop Aria 2 Hi-Fi In-ear Monitors User Manual](#)

User manual for the Moondrop Aria 2 Full-scene HiFi In-ear Monitors, covering how to wear, storage, notices, and after-sales terms.



MOONDROP MIAD  
MOONDROP MIAD  
MOONDROP MIAD

### [MOONDROP MIAD Mobile Internet Audio Device User Manual](#)

User manual for the MOONDROP MIAD Mobile Internet Audio Device, covering setup, operation, safety, and warranty information.