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› Moondrop Space Travel 2 Ultra TWS Bluetooth 6.0 LDAC 13mm Wireless Earphones User Manual

Moondrop SPACE TRAVEL 2 ULTRA

Moondrop Space Travel 2 Ultra Wireless Earphones User Manual

Model: SPACE TRAVEL 2 ULTRA

1. INTRODUCTION

Thank you for choosing the Moondrop Space Travel 2 Ultra Wireless Earphones. These earphones are designed to provide a high-fidelity audio experience with advanced features such as a 13mm planar driver, LDAC high-definition audio transmission, NPU hardware-level AI noise canceling, and a low-latency game mode. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance and longevity of your device.

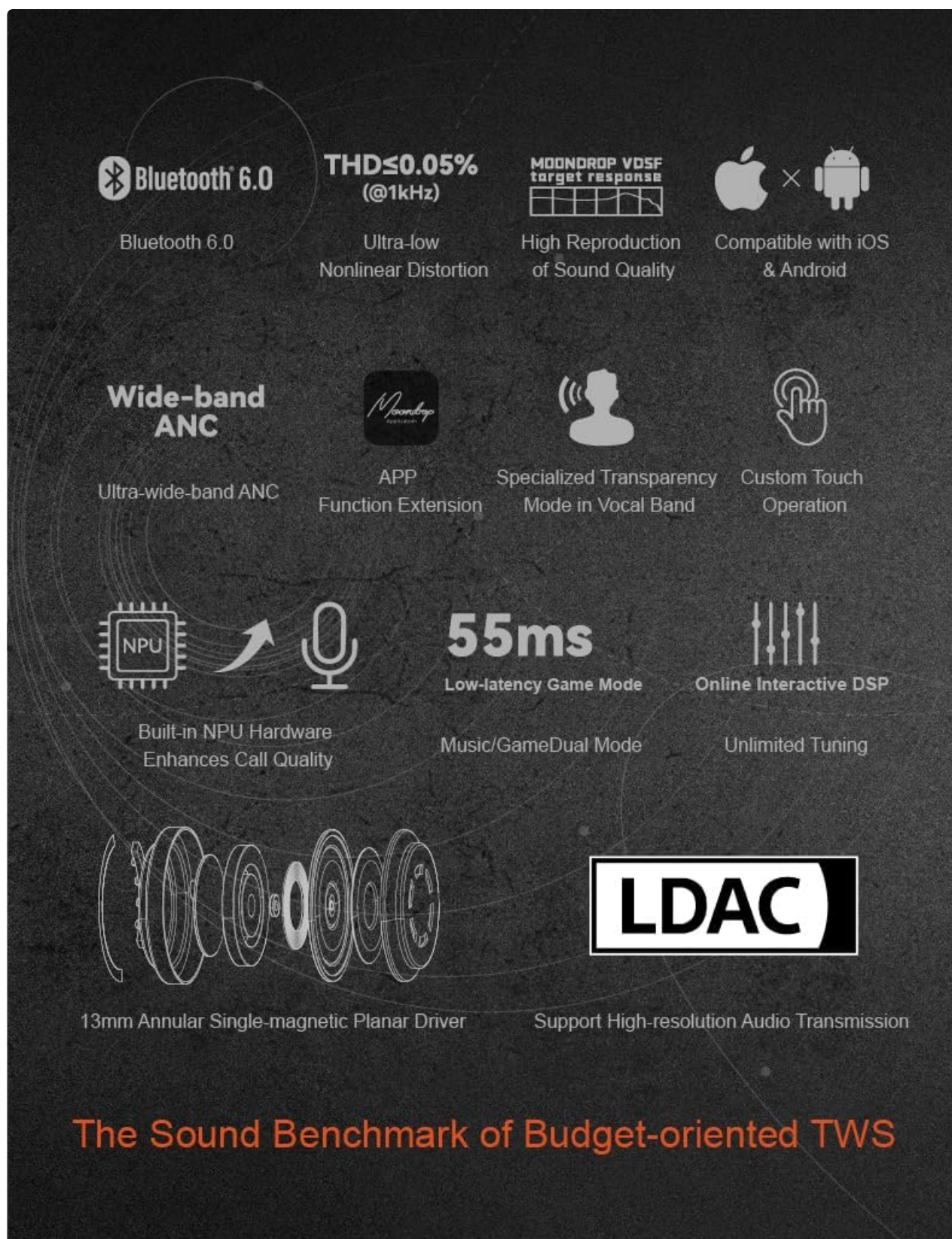


Image: The Moondrop Space Travel 2 Ultra earphones, shown alongside their transparent charging case, highlighting the compact and ergonomic design.

2. WHAT'S IN THE BOX

Upon unboxing your Moondrop Space Travel 2 Ultra, please verify that all components are present:

- Space Travel 2 Ultra Earphones (Left and Right)
- Charging Case

- Charging Cable
- Eartips (Sizes: S, M, L)
- User Manual
- After-service Card
- Guidance Card
- Service Card
- Certificate

3. PRODUCT OVERVIEW

Key Features

- **Patent 13mm Annular Single-magnetic Planar Driver:** Utilizes advanced planar driver technology for excellent bandwidth and low distortion.
- **LDAC High-definition Lossless Audio Transmission Protocol:** Supports 24Bits/96kHz audio transmission for high-quality sound.
- **Built-in NPU Hardware-level AI Noise Canceling:** Features an AI ENC algorithm for effective noise elimination and vocal clarity during calls.
- **55ms Low-latency Game Mode:** Provides a reduced signal transmission delay for an optimized gaming experience.
- **Seamless Switching Between Monaural-Binaural:** Supports automatic reconnection and switching between single and dual earbud use.
- **DSP Graphic Interface:** Customizable equalizer settings via the MOONDROP APP.
- **Custom Touch Operation & ANC Switch:** Personalize touch controls and ANC settings through the MOONDROP Link APP.
- **Seamless Switching Between Two Devices:** Dual-device connectivity for simultaneous connection to two devices.

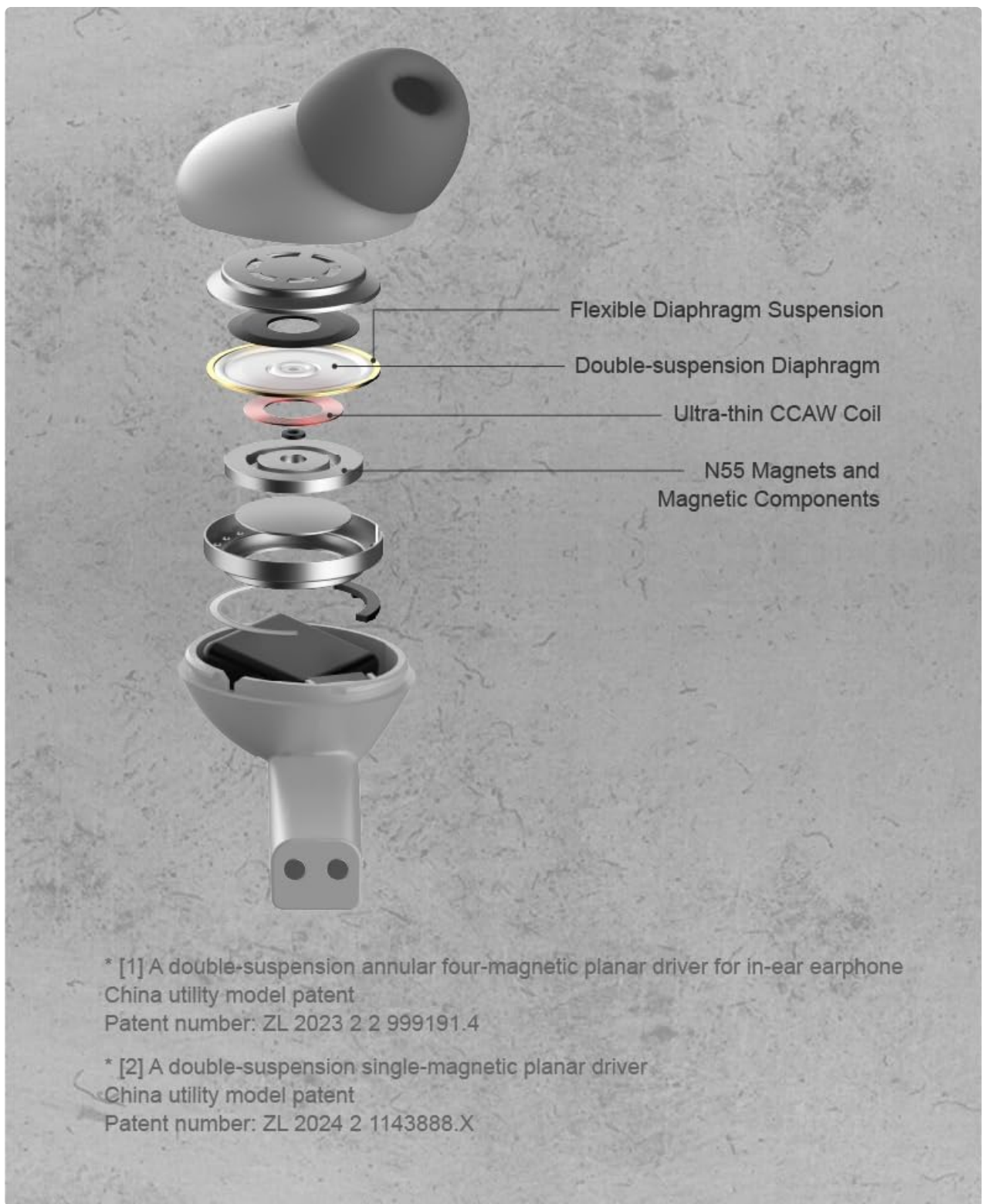


Image: An infographic illustrating the core features of the Space Travel 2 Ultra, including Bluetooth 6.0, LDAC support, NPU AI noise canceling, and low-latency game mode.

Driver Technology

The Space Travel 2 Ultra incorporates a newly developed patented 13mm single-magnetic annular planar driver. This design, inspired by flagship technologies, ensures excellent bandwidth and low distortion through a unique double suspension and planar magnetic circuit.



LDAC High Definition Lossless Audio Transmission Protocol

Space Travel 2 Ultra supports the widely used LDAC high-definition lossless audio transmission protocol, which can transmit 24Bits/96kHz, thus fully meeting the dynamic range and broadband requirements of the hardware.

LDAC

* Please note that due to varying compatibility and connection logic across different mobile phones, user experience may differ. The LDAC feature must be manually enabled through the MOONDROP app, and the earbuds will restart after this is done.

* Please note that enabling the LDAC function will increase power consumption and significantly reduce battery life. Additionally, due to the heavy use of channel resources by LDAC, there are high demands on your mobile phone's RF performance and its compatibility with the electromagnetic environment. If you experience disconnections or interference during use, please turn off the LDAC function through the APP or switch to AAC.



Image: An exploded diagram showcasing the internal components of the 13mm planar driver, including the flexible diaphragm suspension, double-suspension diaphragm, ultra-thin CCAW coil, and N55 magnets.

4. SETUP

4.1 Charging the Earphones and Case

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

4.2 Pairing with a Device

1. Ensure the earphones are charged.
2. Place earphones back in the case, close the lid, then open it again to re-enter pairing mode.
3. On your device (smartphone, tablet, computer), go to Bluetooth settings and enable Bluetooth.
4. Search for available devices and select "Moondrop Space Travel 2 Ultra" from the list.
5. Once connected, the LED indicator on the earphones will stop flashing.

Note: The earphones support seamless switching between monaural and binaural modes. They will automatically reconnect to the last paired device when removed from the case.

5. OPERATING INSTRUCTIONS

5.1 Touch Controls

The Space Travel 2 Ultra features customizable touch controls. Default operations typically include:

- **Single Tap:** Play/Pause music, Answer/End call.
- **Double Tap (Left/Right):** Previous/Next track.
- **Triple Tap (Left/Right):** Volume Down/Up.
- **Long Press:** Activate Voice Assistant, Switch ANC/Transparency Mode.
- **Four Taps:** Switch between Music Mode and Low-latency Game Mode.

For detailed customization of touch operations and ANC settings, download the MOONDROP Link APP.

Seamless Switching Between Two Devices

SPACE TRAVEL 2 Ultra offers dual-device connectivity, allowing it to connect to two different devices simultaneously. Users can easily switch between devices through the APP, providing a seamless and convenient experience.



*This product doesn't include smartphone and computer shown in the picture.

Image: A screenshot from the MOONDROP Link app demonstrating the interface for customizing touch controls and Active Noise Cancellation (ANC) settings.

5.2 LDAC High-definition Audio

The earphones support LDAC for high-resolution audio transmission (24Bits/96kHz). To enable LDAC, you may need to manually activate it through the MOONDROP APP on your device. After activation, the earphones may restart. Note that enabling LDAC can increase power consumption and may reduce battery life. Compatibility and performance may vary

across different mobile phones due to varying RF performance and electromagnetic environment.

55ms Low-latency Game Mode

SPACE TRAVEL 2 Ultra allows easy switching of dual connection modes. In addition to the music mode, users can switch to game mode by tapping the touch faceplate four times. In game mode, the signal transmission delay is as low as 55ms, providing a more comfortable game experience ^[2].

MUSIC MODE ←
→ **GAME MODE**



* [2] The 55ms delay is the official specification of the SOC chip, and may differ according to environmental interference and connected equipment.

Image: A visual representation of the LDAC High-definition Lossless Audio Transmission Protocol, emphasizing its support for high-quality audio.

5.3 Low-latency Game Mode

For an optimized gaming experience, switch to Game Mode by tapping the touch faceplate four times. This mode reduces signal transmission delay to as low as 55ms. Tap four times again to return to Music Mode. The 55ms delay is an official specification of the SOC chip and may vary based on environmental interference and connected equipment.

Equipped with DSP Graphic Interface

Through the recently updated MOONDROP APP, users can customize and debug the parameterized equalizer in the SPACE TRAVEL 2 Ultra'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: A graphic illustrating the easy switching mechanism between Music Mode and the 55ms Low-latency Game Mode.

5.4 MOONDROP APP Customization (DSP & ANC)

The MOONDROP APP allows for advanced customization:

- **DSP Graphic Interface:** Customize and debug the parameterized equalizer. Adjust parameters such as filter type, frequency point, gain, and Q value.
- **Custom ANC Switch:** Adjust switches for features like Active Noise Cancellation (ANC), transparency mode, and power off.

Custom Touch Operation

Custom ANC Switch

The MOONDROP Link APP enables users to customize touch operations and adjust switches for features like ANC (Active Noise Cancellation), transparency mode, and turn off, allowing for a more personalized experience.



Image: Screenshots from the MOONDROP app displaying the DSP graphic interface for equalizer adjustments and other customization options.

5.5 Dual Device Connectivity

The Space Travel 2 Ultra supports connecting to two different devices simultaneously. You can easily switch between connected devices through the MOONDROP APP for a seamless experience.

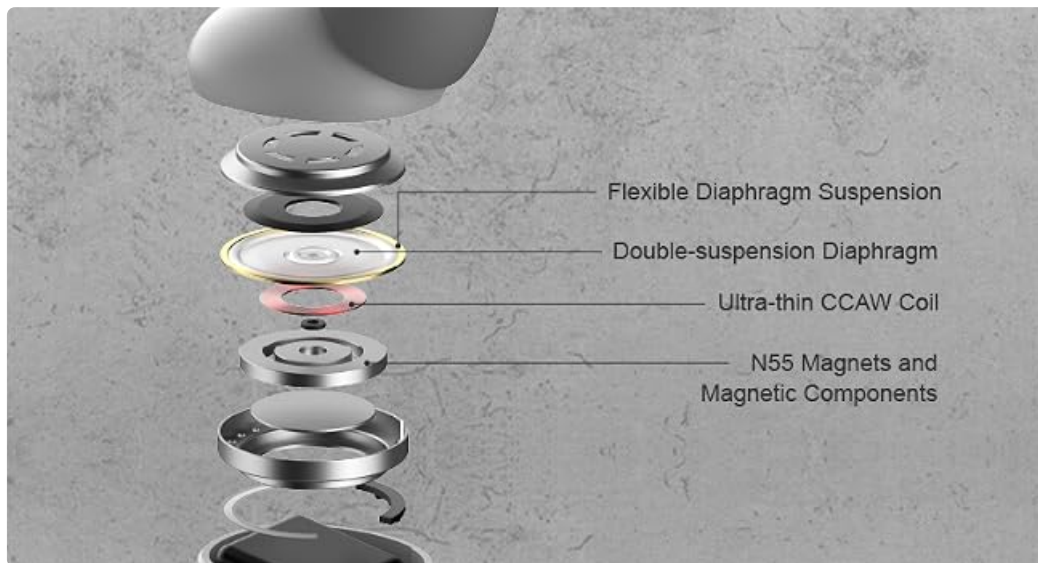


Image: The Moondrop Space Travel 2 Ultra earphones and charging case positioned between a tablet and a smartphone, illustrating the dual-device connectivity feature.

6. MAINTENANCE

- **Cleaning:** Regularly clean the earphones and charging case with a soft, dry, lint-free cloth. Do not use harsh chemicals or abrasive materials.
- **Eartips:** Remove eartips periodically and clean them with mild soap and water. Ensure they are completely dry before reattaching.
- **Charging Ports:** Keep the charging contacts on the earphones and in the case clean and free of debris.
- **Storage:** When not in use, store the earphones in their charging case to protect them and keep them charged.
- **Avoid Water:** The earphones are not waterproof. Avoid exposure to water, moisture, or extreme temperatures.

7. TROUBLESHOOTING

7.1 Earphones Not Pairing

- Ensure earphones are charged.
- Place earphones back in the case, close the lid, then open it again to re-enter pairing mode.
- Turn off and on Bluetooth on your device.
- Forget the device from your Bluetooth list and try pairing again.

7.2 No Sound or Low Volume

- Check the volume level on both the earphones (via touch controls or app) and your connected device.
- Ensure earphones are properly seated in your ears.
- Clean any debris from the earphone nozzles and eartips.
- Reconnect the earphones to your device.

7.3 Disconnections or Interference (LDAC Mode)

- LDAC mode can be demanding on device RF performance and is sensitive to electromagnetic interference.
- If experiencing frequent disconnections, try disabling LDAC through the MOONDROP APP or switching to AAC.
- Ensure there are no major obstacles or strong interference sources between your device and the earphones.

8. SPECIFICATIONS

Feature	Detail
Model Name	SPACE TRAVEL 2 ULTRA
Brand	Moondrop
Connectivity Technology	Wireless (Bluetooth 6.0)
Ear Placement	In Ear
Form Factor	In Ear
Driver Type	13mm Annular Single-magnetic Planar Driver
Audio Codec Support	LDAC, AAC, SBC
Noise Canceling	NPU Hardware-level AI ENC
Low-latency Mode	55ms Game Mode
Item Weight	3.84 ounces
Package Dimensions	4.06 x 2.87 x 1.42 inches
Manufacturer	MOONDROP



Image: A frequency response graph comparing the Space Travel 2 Ultra's performance against a target response, indicating its audio characteristics.

9. WARRANTY AND SUPPORT

Moondrop products are covered by a limited warranty against manufacturing defects. Please refer to the included After-service Card and Service Card for specific warranty terms and conditions. For technical support, troubleshooting

assistance, or warranty claims, please contact Moondrop customer service through their official website or the contact information provided on your service card.

You can also visit the official Moondrop store on Amazon for additional product information and support:[Moondrop Amazon Store](#).

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question