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> Moondrop Littlewhite Neckband Bluetooth Cable Earphones User Manual

Moondrop Littlewhite

Moondrop Littlewhite Neckband Bluetooth Cable Earphones User Manual

Model: Littlewhite

1. INTRODUCTION

The Moondrop Littlewhite is a high-fidelity Bluetooth neckband designed to provide a superior wireless audio experience for compatible in-ear monitors (IEMs). It integrates advanced audio technologies to ensure high-quality sound transmission and clear communication. This manual provides instructions for setup, operation, maintenance, and troubleshooting.



Image 1.1: Moondrop Littlewhite Bluetooth Neckband. This image displays the overall design of the Littlewhite neckband.

2. PRODUCT OVERVIEW

The Littlewhite neckband features a lightweight design with integrated controls and universal 0.78 2-pin connectors for attaching your preferred IEMs. It is equipped with a Qualcomm QCC5144 Bluetooth chip and a CS43131 DAC for high-resolution audio.

LITTLEWHITE



The Earphone is excluded, only for reference.

Image 2.1: Close-up view of the Moondrop Littlewhite neckband controls. This image highlights the buttons and ports on the neckband.

3. SETUP INSTRUCTIONS

3.1 Charging the Device

Before first use, fully charge the Littlewhite neckband. Connect the provided USB Type-C charging cable to the charging port on the neckband and a compatible USB power source. A full charge typically takes approximately 2 hours.

PEQ

Parametric equalization does far more than simply adjust the amplitude of fixed frequencies. It enables the adjustment of frequency, amplitude and width (Q value) of multiple bands, and facilitates the customization of the frequency response of headphones.





Image 3.1: Moondrop Littlewhite neckband connected to a charging cable. This image demonstrates how to connect the charging cable to the device.

3.2 Attaching In-Ear Monitors (IEMs)

The Littlewhite neckband is compatible with most IEMs that use a 0.78 2-pin connector. Carefully align the pins of your IEMs with the receptacles on the neckband and push them gently until they are securely connected. Ensure correct left and right orientation.



Image 3.2: Close-up of the universal 0.78 2-pin jack. This image shows the connector type for attaching IEMs.

3.3 Bluetooth Pairing

1. Ensure the Littlewhite neckband is powered off.
2. Press and hold the power button until the indicator light flashes, indicating pairing mode.
3. On your device (smartphone, tablet, etc.), enable Bluetooth and search for available devices.
4. Select "Moondrop Littlewhite" from the list of found devices.
5. Once connected, the indicator light will change to a steady blue or turn off, depending on the model.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- **Power On:** Press and hold the power button for approximately 3 seconds until the indicator light illuminates.
- **Power Off:** Press and hold the power button for approximately 5 seconds until the indicator light turns off.

4.2 Media Control

The neckband features touch controls for media playback:

- **Play/Pause:** Single tap the multi-function button.
- **Next Track:** Double tap the multi-function button.
- **Previous Track:** Triple tap the multi-function button.

4.3 Call Management

Manage phone calls using the integrated controls:

- **Answer/End Call:** Single tap the multi-function button.
- **Reject Call:** Press and hold the multi-function button for 2 seconds.

4.4 Volume Control

Adjust the playback volume using the dedicated volume buttons on the neckband.

4.5 Adjustable Cable Length

The Littlewhite neckband features adjustable cable length mechanisms to customize the fit and reduce cable slack. Slide the adjusters along the cables to achieve your desired length.

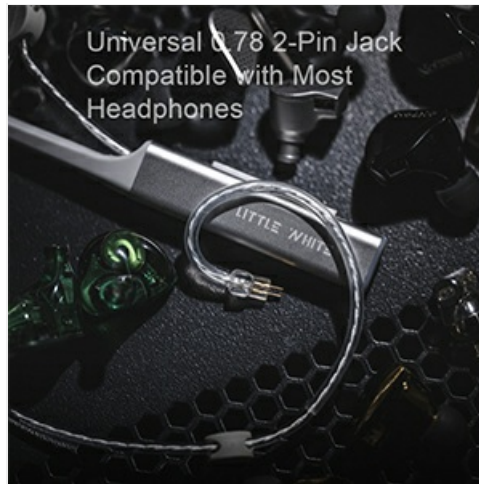


Image 4.1: User adjusting the cable length of the neckband. This image illustrates how to customize the cable length for a comfortable fit.

5. ADVANCED FEATURES

5.1 HiFi Audio Architecture

The Littlewhite neckband is engineered with a Qualcomm flagship Bluetooth master control chip QCC5144 and a CS43131 DAC. This architecture supports high bit rate transmission protocols and provides ample processing power for sound quality optimization and lossless transmission.

5.2 LHDC Bluetooth HiFi Audio Transmission Protocol Support

The Littlewhite supports the LHDC HiFi Bluetooth audio transmission protocol. When connected to a mobile phone compatible with LHDC, it offers lossless Bluetooth audio transmission, delivering sound quality beyond standard CD levels.



Image 5.1: The LHDC logo, indicating support for the LHDC HiFi audio transmission protocol.

5.3 aptX Adaptive High-Quality / Low-Delay Bluetooth Audio Transmission Protocol Support

The neckband also supports the aptX Adaptive Bluetooth audio transmission protocol. This allows for automatic switching between high-quality audio-visual and low-latency gaming experiences when paired with a compatible mobile device.

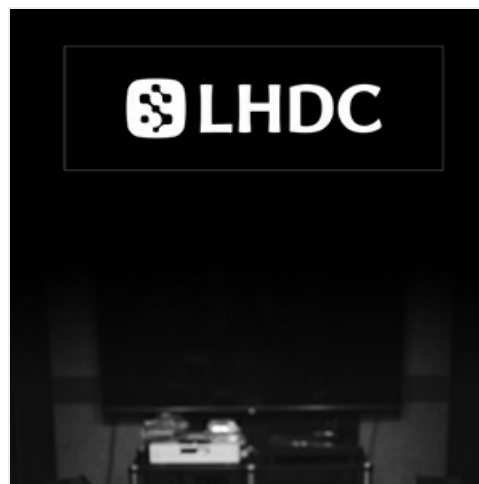


Image 5.2: The aptX Adaptive logo, signifying support for this high-quality, low-latency audio codec.

5.4 Superior Beamforming Microphone Environment Noise Cancellation (ENC)

The Littlewhite utilizes beamforming technology for effective Environmental Noise Cancellation. By optimizing the placement of two MEMS microphones, it significantly reduces environmental noise during calls without compromising call quality, offering a clear communication experience.



Transmission Protocol Support

Littlewhite supports the LHDC HiFi Bluetooth audio transmission protocol, offering first-class lossless Bluetooth audio transmission when connected with a mobile phone compatible with LHDC, and delivers lossless sound quality transmission far beyond CD level.



Image 5.3: A person using the Moondrop Littlewhite neckband for a phone call. This illustrates the use of the beamforming microphone for clear communication.

5.5 VDSF Targeted Headphone Optimization

This function optimizes the sound for compatible MOONDROP active in-ear headphones. It compensates the headphones to the VDSF Target Response through DSP digital signal processing, improving the balance and

restoration of the audio. VDSF Target Response is a frequency response curve based on HRTF (head related transfer function) and B&K HATS diffusion, aiming for an ideal room preference curve.



Image 5.4: A frequency response graph illustrating VDSF targeted headphone optimization. This graph shows the target frequency response curve.

5.6 Parametric Equalization (PEQ)

Parametric Equalization (PEQ) allows for precise adjustment of frequency, amplitude, and bandwidth (Q value) of multiple bands. This feature facilitates detailed customization of the headphone's frequency response to suit individual preferences.

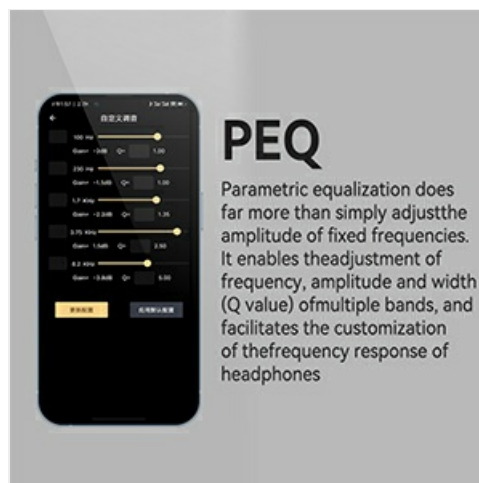


Image 5.5: Screenshot of a Parametric Equalization (PEQ) interface. This image shows various frequency, gain, and Q-value settings for audio customization.

5.7 Product Video

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Video 5.1: Official product video for the Moondrop Littlewhite Neckband Bluetooth Cable. This video demonstrates the product in use and highlights its features.

6. MAINTENANCE

6.1 Cleaning

- Wipe the neckband and cables with a soft, dry cloth.
- Do not use harsh chemicals, cleaning solvents, or strong detergents.
- Ensure the charging port is free of dust and debris.

6.2 Storage

- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- Avoid bending or twisting the cables excessively to prevent damage.

7. TROUBLESHOOTING

If you encounter issues with your Moondrop Littlewhite neckband, refer to the following common solutions:

Problem	Possible Cause	Solution
Device does not power on	Low battery; Device malfunction	Charge the device fully. If the issue persists, contact support.
Cannot pair with device	Not in pairing mode; Device Bluetooth off; Interference	Ensure the neckband is in pairing mode. Check your device's Bluetooth settings. Move closer to your device.
No sound or poor sound quality	IEMs not connected properly; Low battery; Incorrect audio source; Codec issues	Ensure IEMs are securely attached. Charge the neckband. Verify audio output settings on your device. Some users have reported issues with LHDC activation; try aptX Adaptive if available.
Charging issues	Faulty cable/charger; Port obstruction; Internal issue	Try a different USB-C cable and charger. Clean the charging port. If the device refuses to charge or only charges partially, contact support.
App not detecting device (if applicable)	App compatibility; Firmware issue	Ensure the app is updated. Check for firmware updates for the neckband. Some users have reported app functionality issues; use hardware controls if the app is not functional.

8. SPECIFICATIONS

Feature	Detail
Brand	Moondrop
Model Name	LITTLE WHITE
Connectivity Technology	Bluetooth
Bluetooth Version	5.2
Bluetooth Range	15 Meters
Control Type	Media Control
Control Method	Touch
Battery Charge Time	2 Hours

Feature	Detail
Battery Average Life	12 Hours
Noise Control	Environmental Noise Cancellation
Audio Driver Type	Dynamic Driver
Frequency Range	20Hz-20kHz±0.5dB
Enclosure Material	Silicone
Compatible Devices	Cellphones
Water Resistance Level	Not Water Resistant
Additional Features	Lightweight

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The Moondrop Littlewhite Neckband Bluetooth Cable Earphones come with a one-year manufacturer's warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

9.2 Customer Support

For technical assistance, warranty claims, or product inquiries, please contact Moondrop customer support through their official website or the retailer where the product was purchased. Please have your proof of purchase and product model information ready when contacting support.