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## Moondrop DAWN Pro

# MOONDROP Dawn Pro Portable USB DAC/AMP User Manual

Model: DAWN Pro

## 1. INTRODUCTION

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The MOONDROP Dawn Pro is a high-performance portable USB Digital-to-Analog Converter (DAC) and Headphone Amplifier designed to enhance your audio experience. It features dual Cirrus Logic CS43131 decoding chips, independent power supply, and supports high-resolution audio formats up to 32Bit/384kHz PCM and DSD256. Its compact design and robust aluminum alloy housing make it suitable for use with various devices, including smartphones, computers, and laptops.

## 2. PACKAGE CONTENTS

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Verify that all items are present in the package:

- MOONDROP Dawn Pro Portable USB DAC/AMP
- Type-C to Type-C adapter cable (1x)
- Type-A to Type-C adapter (1x)

## 3. PRODUCT OVERVIEW

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Image: The MOONDROP Dawn Pro device, showcasing its compact silver aluminum body with ventilation holes and dual headphone output jacks (3.5mm and 4.4mm).

The Dawn Pro integrates advanced audio technology into a portable form factor. Key features include:

- **Dual High-Performance DAC Chips:** Equipped with two Cirrus Logic CS43131 decoding chips for superior audio conversion.
- **Independent Power Supply:** Features three independent power supply chips, ensuring stable and clean power delivery to each internal component.
- **Wide Compatibility:** Works with most computers, smartphones, and laptops, supporting PCM from 16Bit/44.1kHz to 32Bit/384kHz and DSD512.
- **100-Level Volume Control:** Offers a precise, almost lossless 100-level volume adjustment, independent of the source device's volume.
- **Dual Headphone Outputs:** Includes both a 3.5mm single-ended jack for broad compatibility and a 4.4mm balanced jack for enhanced performance.
- **Durable Aluminum Alloy Housing:** Constructed from aviation aluminum alloy with CNC and mold forming, finished with anodization for durability and efficient heat dissipation.

## 4. SETUP

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Follow these steps to set up your MOONDROP Dawn Pro:

1. **Connect to Source Device:** Use the provided Type-C to Type-C cable to connect the Dawn Pro to your smartphone, tablet, or laptop's USB-C port. If your device has a USB-A port, use the included Type-A to Type-C adapter.



Image: The MOONDROP Dawn Pro connected to a smartphone via a USB-C cable, with 3.5mm and 4.4mm headphone plugs shown nearby.

2. **Connect Headphones:** Plug your headphones or earphones into either the 3.5mm single-ended output or the 4.4mm balanced output on the Dawn Pro. Ensure the connector is fully inserted.
3. **Power On:** The Dawn Pro will automatically power on when connected to a compatible source device. An indicator light (color not specified, typically blue or white) will illuminate to confirm operation.
4. **Audio Output Selection:** On your source device, ensure that the MOONDROP Dawn Pro is selected as the audio output device. This setting is usually found in your device's sound or audio settings.

## 5. OPERATING INSTRUCTIONS

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Image: Side view of the MOONDROP Dawn Pro, clearly showing the two volume control buttons and the ventilation pattern.

- **Volume Control:** Use the physical volume buttons on the side of the Dawn Pro to adjust the output volume. The device features a 100-level smooth DAC volume control for precise adjustments.
- **Audio Playback:** Begin playing audio from your source device. The Dawn Pro will process the digital audio signal and output it to your connected headphones.
- **Indicator Light:** The indicator light on the device provides status information. Refer to the product packaging or official documentation for specific light behaviors (e.g., color indicating sample rate or operational status).

## 6. CONNECTIONS

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The MOONDROP Dawn Pro offers versatile connectivity options:

- **USB-C Input:** This port is used for connecting the Dawn Pro to your digital audio source (smartphone, computer, etc.) and for receiving power.

- **3.5mm Single-Ended Output:** A standard headphone jack compatible with most headphones and earphones. This output ensures wide compatibility.
- **4.4mm Balanced Output:** A balanced headphone jack that provides increased power output and improved audio quality compared to the single-ended output, ideal for headphones that support balanced connections.

## 7. SPECIFICATIONS

Feature	Specification
Product Name	DAWN PRO High-performance Portable DAC/AMP
Weight	13g
Dimensions	42mm*22.45mm*12.39mm (1.65 x 0.88 x 0.49 inches)
Earphone Jacks	3.5mm single-ended, 4.4mm balanced
Frequency Range	5Hz - 82kHz (+1dB)
Noise Floor (4.4mm)	1.3µV (AES17 20kHz)
Noise Floor (3.5mm)	1.5µV (AES17 20kHz)
SNR (4.4mm)	131dB (A-wt)
SNR (3.5mm)	123dB (A-wt)
Line Out (4.4mm)	4Vrms
Line Out (3.5mm)	2Vrms
Dynamic Range (4.4mm)	132dB (A-wt)
THD+N Ratio	0.00014% (AES17 20kHz, non-loaded)
Decoding Support	PCM 16Bit/44.1kHz to 32Bit/384kHz, DSD512
Manufacturer	Moondrop
Item Model Number	DAWN Pro

## 8. TROUBLESHOOTING

If you encounter issues with your MOONDROP Dawn Pro, refer to the following common solutions:

- **No Sound Output:**
  - Ensure the Dawn Pro is securely connected to both the source device and your headphones.
  - Verify that the Dawn Pro is selected as the default audio output device in your source device's sound settings.
  - Check the volume levels on both the Dawn Pro and your source device.
  - Test with different headphones or a different source device to isolate the problem.
- **Distorted or Crackling Audio:**

- Ensure the audio cable connecting the Dawn Pro to your source device is not damaged and is properly seated.
  - Try a different audio file or streaming service to rule out source material issues.
  - Reduce the volume to see if distortion persists at lower levels.
  - If using a PC, ensure you have the latest drivers for your operating system.
- **Device Not Recognized by PC:**
    - Try connecting to a different USB port on your computer.
    - Ensure your operating system is up to date.
    - Some operating systems may require specific drivers or software. Check the official MOONDROP website for support resources.
    - Use the provided Type-C to Type-A adapter if your PC has USB-A ports.
  - **Device Gets Warm During Use:**
    - The aluminum alloy housing is designed for efficient heat dissipation. It is normal for the device to become warm during operation, especially during prolonged use or when driving high-impedance headphones. This does not indicate a malfunction.

## 9. MAINTENANCE

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To ensure the longevity and optimal performance of your MOONDROP Dawn Pro:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the device. Avoid using harsh chemicals, solvents, or abrasive materials.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts. Do not attempt to disassemble the unit, as this will void the warranty.

## 10. WARRANTY AND SUPPORT

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MOONDROP products are covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official MOONDROP website. For technical support, troubleshooting assistance, or service inquiries, please contact MOONDROP customer support through their official channels.