

Aune SC1 EVO

Aune SC1 EVO Audio Clock User Manual

Model: SC1 EVO

1. INTRODUCTION

The Aune SC1 EVO is a high-precision 10MHz external OCXO (Oven Controlled Crystal Oscillator) audio clock designed to enhance the performance of compatible audio devices. It provides both sine wave and square wave outputs, ensuring precise timing for your audio system. This manual provides essential information for the proper setup, operation, and maintenance of your SC1 EVO.

2. SAFETY INFORMATION

- Read all instructions carefully before operating the device.
- Do not expose the device to rain, moisture, or extreme temperatures.
- Ensure proper ventilation to prevent overheating.
- Use only the provided power adapter or a compatible power supply within the specified voltage range (110V-240V AC).
- Do not attempt to disassemble or modify the device. Refer all servicing to qualified personnel.
- Keep the device away from strong magnetic fields.

3. PACKAGE CONTENTS

Please check that all items are present in the package:

- Aune SC1 EVO Audio Clock Unit
- Power Cable
- User Manual (this document)

4. PRODUCT OVERVIEW

4.1 Front and Rear Panel Components

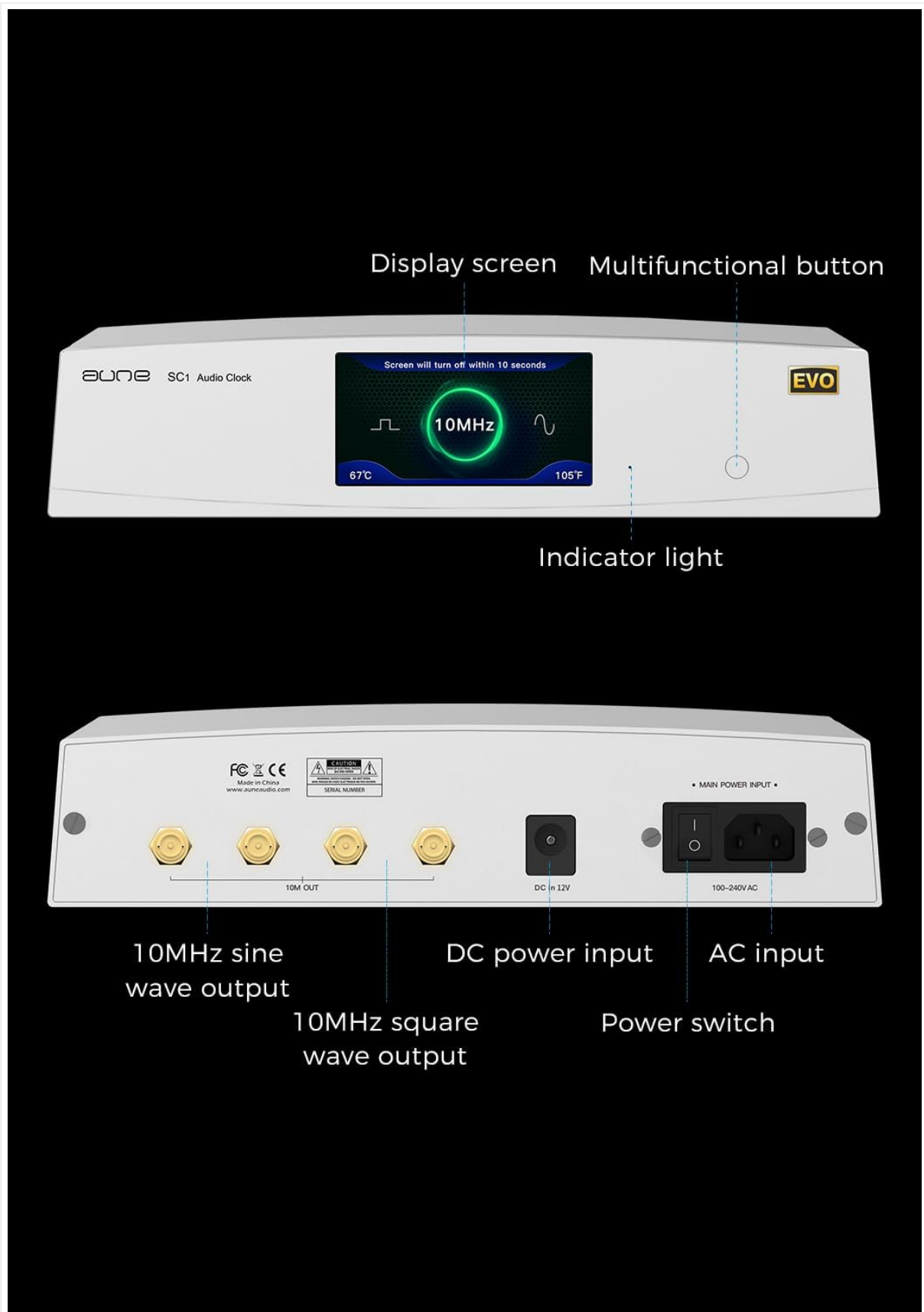


Figure 1: Front and Rear Panel Layout of the Aune SC1 EVO Audio Clock. The front panel features a display screen, a multifunctional button, and an indicator light. The rear panel includes 10MHz sine wave outputs, 10MHz square wave outputs, a DC power input, an AC input, and a power switch.

Front Panel:

- **Display Screen:** Shows operational status, temperature, and clock frequency.
- **Multifunctional Button:** Used for navigating menus and adjusting settings.
- **Indicator Light:** Provides visual feedback on the device's status.

Rear Panel:

- **10MHz Sine Wave Output:** Two outputs for connecting to compatible audio devices requiring a sine wave clock signal.
- **10MHz Square Wave Output:** Two outputs for connecting to compatible audio devices requiring a square wave clock signal.
- **DC Power Input:** For connecting an external 12V DC power supply.
- **AC Input:** For connecting the main power cable (110-240V AC).
- **Power Switch:** To turn the unit on or off.

4.2 Vivid UI Display



Figure 2: The SC1 EVO's full-color display showing real-time core chamber temperature and clock status. Red indicates warm-up, yellow indicates operational status, and green indicates optimal performance, keeping you informed of the clock's status.

The SC1 EVO features a full-color display with a dedicated clock UI. This interface monitors the core chamber temperature in real-time. The display uses a color-coded system:

- **Red:** Indicates the warm-up phase.
- **Yellow:** Indicates operational status.
- **Green:** Indicates optimal performance.

This visual feedback helps users understand the clock's current state and ensures optimal timing synchronization.

5. SETUP

5.1 Power Connection

AC+DC Dual Input

AC port supports 110-230V worldwide, while the DC input accommodates linear power supplies or lithium batteries for performance upgrades on demand.

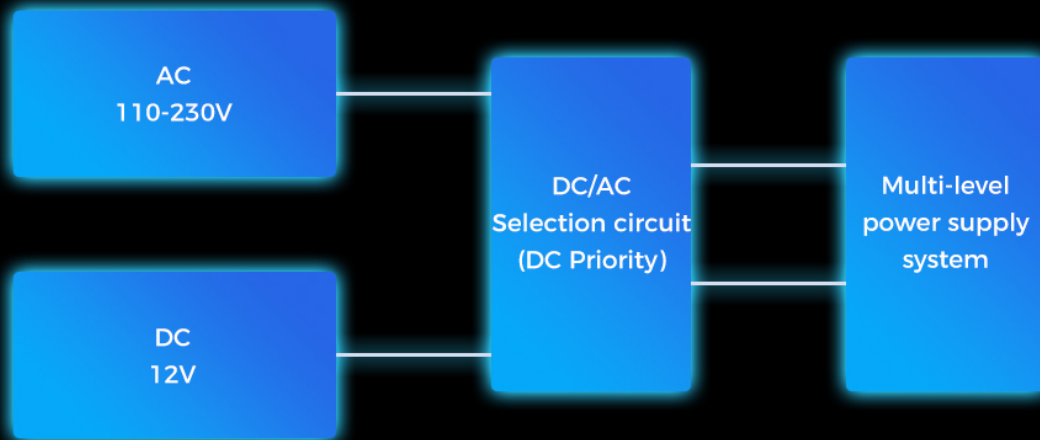


Figure 3: AC+DC Dual Input power system diagram. The SC1 EVO supports both 110-230V AC input and 12V DC input, with DC priority for enhanced performance.

The SC1 EVO supports both AC and DC power inputs. The device features a DC/AC selection circuit with DC priority.

1. **AC Power:** Connect the provided power cable to the AC input port on the rear panel and then to a standard wall outlet (110-240V AC).
2. **DC Power:** For optimal performance, you can connect an external 12V DC linear power supply or compatible lithium battery to the DC power input. If both AC and DC are connected, the unit will prioritize the DC input.

5.2 Connecting to Audio Devices

The SC1 EVO provides four independent 10MHz outputs: two sine wave and two square wave. These can be used simultaneously.

1. Identify the 10MHz clock input on your audio device (e.g., DAC, streamer, CD player).
2. Use a high-quality 75-ohm coaxial cable to connect one of the SC1 EVO's 10MHz outputs (sine or square, depending on your device's requirement) to the 10MHz input of your audio device.
3. Ensure a secure connection at both ends.
4. Repeat for additional compatible devices, utilizing the remaining outputs as needed.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

- To power on the SC1 EVO, ensure the power cable(s) are connected, then flip the power switch on the rear panel to the 'ON' position.
- The display will illuminate, and the unit will begin its warm-up sequence (indicated by a red status on the UI).
- To power off, flip the power switch to the 'OFF' position.

6.2 Understanding the Display

Once powered on, the display will show the core chamber temperature and the clock's status. Allow the unit to reach its optimal operating temperature (indicated by a green status) for the most stable and precise clock signal. This warm-up period ensures the OCXO achieves its specified accuracy.

6.3 Using the Multifunctional Button

The multifunctional button on the front panel allows for basic interaction with the device. Specific functions may include:

- Short press: Cycle through display modes or confirm selections.
- Long press: Enter/exit settings menu or power standby mode.

Refer to the on-screen prompts for detailed button operations.

6.4 Simultaneous Output Operation

The SC1 EVO's four independent outputs (two sine wave, two square wave) can operate simultaneously. This allows you to provide a precise 10MHz clock signal to multiple compatible audio components in your system at the same time, ensuring synchronized performance across your setup.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or abrasive materials.
- **Ventilation:** Ensure that the ventilation openings are not blocked to prevent heat buildup.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place, away from direct sunlight and dust.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/Unit does not turn on	Power cable not connected; Power switch off; Faulty power outlet	Check power cable connections; Ensure power switch is ON; Try a different power outlet.
No clock signal to audio device	Incorrect cable type; Loose connection; Audio device not configured for external clock	Use a 75-ohm coaxial cable; Ensure connections are secure; Check your audio device's manual for external clock setup.
Display shows 'Warm-up' for extended period	Normal operation for OCXO; Insufficient ventilation	Allow sufficient time (typically 15-30 minutes) for the OCXO to stabilize; Ensure adequate airflow around the unit.

9. SPECIFICATIONS

- **Brand:** Aune
- **Model:** SC1 EVO
- **Clock Type:** 10MHz External OCXO
- **Outputs:** 2x 10MHz Sine Wave, 2x 10MHz Square Wave
- **Jitter:** Lower than 200 fs (BW 1 Hz ~ 1 MHz)

- **Power Input:** 110-240V AC, 12V DC
- **Number of Channels:** 4 (outputs)
- **Mounting Type:** Tabletop

10. WARRANTY AND SUPPORT

Aune products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the official Aune website or contact your authorized dealer. Keep your purchase receipt as proof of purchase for warranty claims.

You can visit the Aune Store for more information:[Aune Official Store](#)