

C1 Mono Quick Start Guide

1 Introduction

The C1 Mono consists of three units and up to three optional units:

- C1.d: the digital controller unit is the digital heart of the C1 Mono. It features the C1 input's modular architecture as well as the digital processing. It is the only unit that the customer directly operates. All the other units forming the C1 Mono are slave to the C1.d.
- C1.m: this is the monaural digital to analog converter unit. The C1 Mono includes two C1.m units, one per audio channel. The audio channel is displayed on the C1.m front panel LCD screen as well as at the back of the unit on the analog output board (it is also deducible from the color of the RCA analog output connectors, white for Left and red for Right).
- Optional X1: up to three X1 external power supply units can be added to the C1 Mono for improved power supply noise rejection and improved channel separation.

Once the units are connected as described in chapter 2 below, the C1 Mono unit is operated like a stereo C1, either using the C1.d unit front panel controls or the infrared remote control or the CH Control app. Please refer to the C1 user manual for more information on how to operate the C1 Mono.

2 Connections

Place the C1 Mono units on a stable and sturdy piece of furniture or high performance audio rack. Please refer to chapter 3 of the C1 user manual for more information on how to install your C1 Mono units.

2.1 Digital connections

The C1 Mono comes with a pair of MonoDAC Link cables used to interconnect the C1.d unit to the two C1.m units.

Connect the C1.d Left MonoDAC Link output connector to the Left channel C1.m MonoDAC Link input connector. Be aware of the directional arrow of the MonoDAC Link cable as signal flows from the C1.d unit to the C1.m units.

Connect the C1.d Right MonoDAC Link output connector to the Right channel C1.m MonoDAC Link input connector. Be aware of the directional arrow of the MonoDAC Link cable as signal flows from the C1.d unit to the C1.m units.

2.2 Analog connections

Connect one of the analog outputs (either XLR, RCA or BNC) of each C1.m (Left and Right) to:

- a line preamplifier input if the C1.d will be used as a D/A converter exclusively.
- or
- a power amplifier input if the C1.d will be used as a D/A controller (converter + volume control).

2.3 Optional X1 power connections

For a 4-unit C1 Mono configuration, connect the C1.d to a X1 unit using the CH Power Link cable provided with the X1 unit.

For a 5-unit C1 Mono configuration, connect the Left and Right C1.m to two X1 units using the CH Power Link cables provided with the X1 units.

For a 6-unit C1 Mono configuration, connect the Left and Right C1.m to two X1 units and connect the C1.d to a third X1 unit using the CH Power Link cables provided with the X1 units.

2.4 Mains connections

Make sure that every mains power switch at the back of the units is in the OFF position prior to connecting any CH Power Link cables.

Double check that the mains voltage selector at the back of all units is showing the mains voltage of your area.

Connect a mains power cord to every unit. If X1 units are used, both the X1 and the C1 Mono units need to be connected to the mains electricity.

2.5 Power up the C1 Mono

Once all the above connections have been made, turn on all the units (C1.d, C1.m and optional X1 units) by switching on the mains power switch at the back of each unit. All the units enter Standby (the front panel red LED of every unit should be lit).

Get the C1 Mono out of Standby by either pushing the C1.d front panel button (short push) using the infrared remote control or using CH Control app installed on an Android tablet (feature available if the C1.d is connected to an Ethernet router).

3 Firmware update

The latest C1 Mono firmware can be downloaded from the CH Precision website – www.ch-precision.com. It is delivered as a Zip file containing nine files. The Zip file needs to be decompressed and the extracted nine files copied to the root of the provided USB key.

The C1 Mono three units must be updated together to ensure that communication between the units remains coherent. The three units can be updated in any order, there is no specific requirements in regards to which unit gets updated first, second and third.

The C1.d unit can be updated either through the normal firmware update procedure or the Emergency firmware update procedure as described in chapter 5 of the C1 user manual.

The C1.m units can only be updated through the Emergency firmware update procedure. The push button located next to the C1.m USB connector is used to perform the Emergency firmware update procedure. First, make sure the power switch in the back of each C1.m units is in the off position and any X1 units connected to the C1.m units are completely powered off by switching the rocker switch to the off position. Insert the USB key with the firmware into the USB slot of the first C1.m unit. While pushing in and holding the small black button located next to the C1.m USB connector, flip the power switch to the on position. After a few moments, a message will appear on the front panel of the C1.m units as the firmware update procedure begins. When the procedure completes successfully, the unit is placed into Standby mode. Remove the USB key from the first C1.m and repeat this procedure for the second C1.m unit.



If one or several X1 units are used to power the C1 Mono, their latest firmware can be downloaded from the CH Precision website – www.ch-precision.com. It is delivered as a Zip file containing a single file. The Zip file needs to be decompressed and the extracted file be copied to the root of the provided USB key. Please refer to chapter 5 of the X1 user manual for more information on how to update the firmware of an X1 unit.