

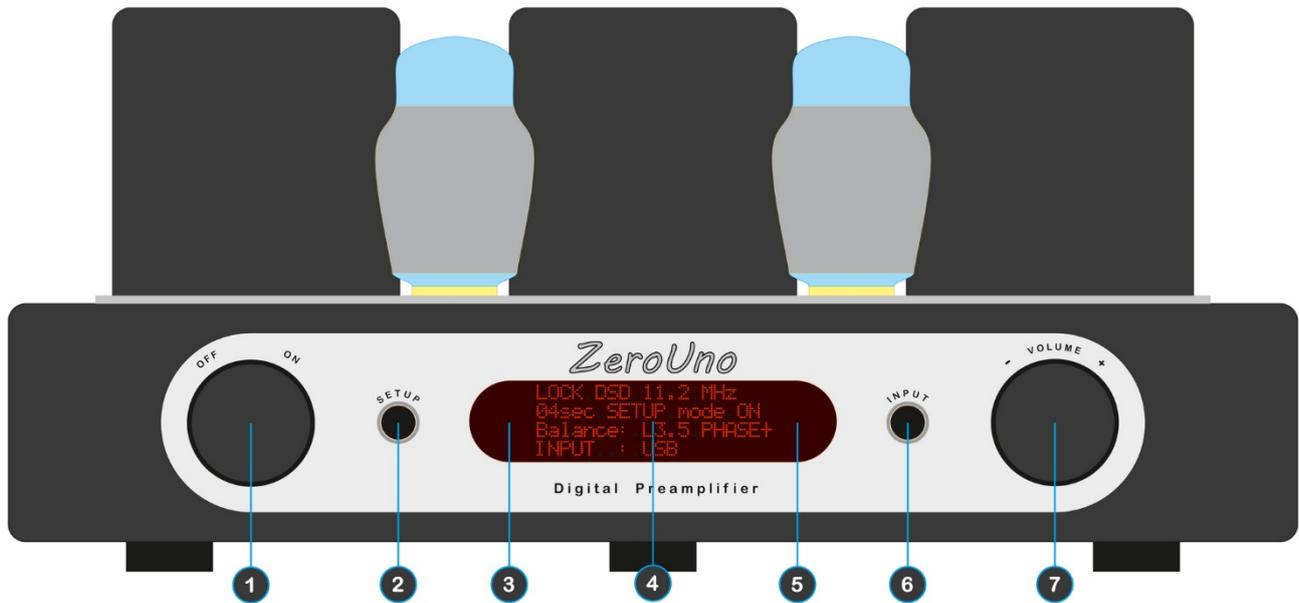
ZeroUno DAC^{MKII}

Digital Preamplifier

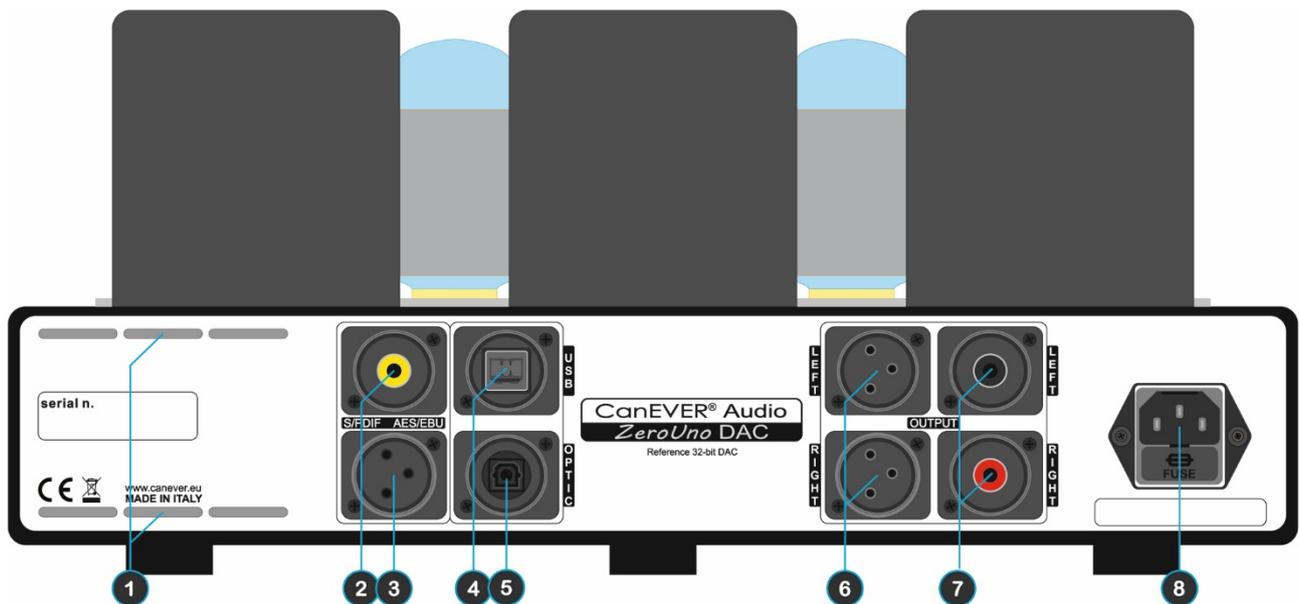
OPERATING INSTRUCTIONS



FRONT and REAR view

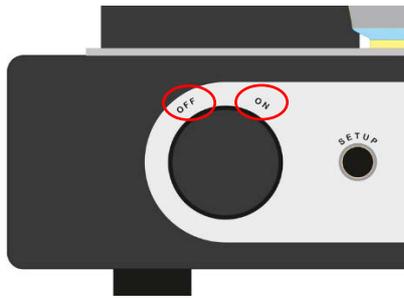


<ul style="list-style-type: none"> ❶ ON/OFF switch ❷ SETUP button if pressed for at least 2 sec or RESTORE button if pressed for more than 10 sec ❹ LED for factory use 	<ul style="list-style-type: none"> ❸ LCD Display ❺ INFRARED RECEIVER - do not cover ❻ INPUT SELECTOR button ❼ VOLUME / PARAMETER knob
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<ul style="list-style-type: none"> ❶ VENT DOOR – do not cover ❷ S/SPDIF 75Ω RCA input ❸ AES/EBU 110Ω XLR input (BNC optional) ❹ USB input 	<ul style="list-style-type: none"> ❺ S/PDIF OPTIC input ❻ Left & Right True Balanced Outputs ❼ Left & Right Unbalanced RCA Outputs ❽ 230Vac IEC socket with fuses house.
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ON /OFF



The left knob is the **POWER SWITCH**.

OFF No power to any part of the *ZeroUno* DAC
 ON *ZeroUno* DAC is powered on

INPUT BUTTON

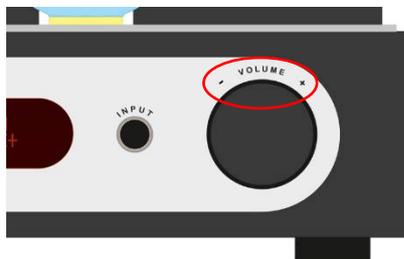


Press the **INPUT** button to switch from one input to another in the following order:

- RCA SPDIF
- XLR AES/EBU SPDIF
- OPTIC SPDIF
- USB (i²S or DoP with auto detection)

The de-emphasis filter is automatically activated if the signal at the input was recorded with emphasis.

VOLUME



In PLAY mode turning the right knob clockwise or counter clockwise changes the **VOLUME** (up/down) in steps of 1 dB.

While rotating the volume knob the volume level is shown at the display.

Volume range is -60dB – 0dB.

DISPLAY

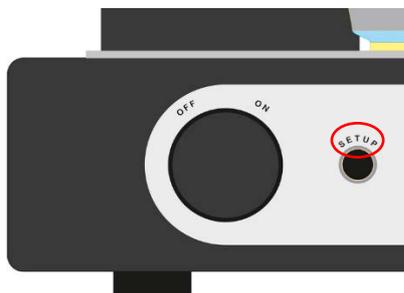


In PLAY mode the display reports the status of the *ZeroUno* DAC.

The first row at the display shows the LOCK on the coming signal. The second row shows the VOLUME (better: the attenuation) in dB.

The third row shows the BALANCE and the ABSOLUTE PHASE. The fourth row shows the active INPUT.

SETUP



Press the **SETUP** for at least 2 seconds and LESS than 10 seconds to enter in SETUP Mode.

For each parameter, its value is visible at the display.

When in Setup Mode pressing again the SETUP button skips to the next parameter possible.

Rotating the right knob (VOLUME) changes the parameter values.



If no button is pressed or the right knob is not turned within 10 seconds, the *ZeroUno* DAC automatically stores the values shown at the display and switches back to the PLAY/MUTE mode.

All selected parameters are stored in a non-volatile memory, so that the setup information is not lost after powering off the unit.

RESTORE



To **RESTORE** the factory setup, the SETUP button at the front panel of the *ZeroUno* DAC must hold for at least 10 seconds.

The RESTORE command takes action when the SETUP button is released.

All the parameters of all INPUTs will be RESET to the factory values.

```
LOCK DSD 11.2 MHz
04sec SETUP mode ON
Balance: L3.5 PHASE+
INPUT : USB
```

A countdown running on the 2nd row of the display is shown, when the *ZeroUno* DAC has engaged the RESTORE command.

```
LOCK DSD 11.2 MHz
13sec RESET ENGAGED
Balance: L3.5 PHASE+
INPUT : USB
```

Once engaged, it is no possible to stop the RESTORE command.

Display examples

PARAMETERS SETUP

SAMPLING RATE



1 sec to EXIT&STORE
 SETUP: SAMPLING RATE
 Show changes in BIG

Display example

SAMPLING RATE changes in BIG digits

Turning the right knob (VOLUME) sets the display to show the sampling rate of the music file playing in big digits.

The user can select between:

“Show changes in BIG” and “Do not show BIG digit”.

After 10 seconds without interaction at the right knob, the display turns back into normal operation and the parameter is stored.

The countdown on the first row helps to control the left time.

BALANCE SETUP



7 sec to EXIT&STORE
 SETUP: BALANCE
 RIGHT 1.5dB

Display example

BALANCE

Turning the right knob (VOLUME) changes the BALANCE value.

Range from 5.0dB left to 5.0dB right in steps of 0.5dB.

After 10 seconds without interaction at the right knob, the display turns back into normal operation and the parameter is stored.

The countdown on the first row helps to control the left time.

PHASE SETUP



5 sec to EXIT&STORE
 SETUP: PHASE
 > Absolute Polarity

Display example

LISTENING POLARITY (PHASE)

Turning the right knob (VOLUME) toggles the polarity listening:

Absolute polarity vs. inverted absolute polarity

After 10 seconds without interaction at the right knob, the display turns back into normal operation and the parameter is stored.

The countdown on the first row helps to control the left time.

LCD BRIGHTNESS
SETUP


8 sec to EXIT&STORE
 SETUP: brightness
 90%

Display example

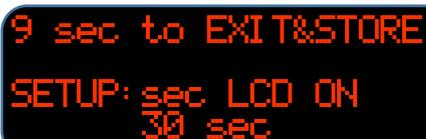
LCD BRIGHTNESS

Turning the right knob (VOLUME) changes the display brightness.

Values are: 50% / 60% / 70% / 90% / 100%

After 10 seconds without interaction at the right knob, the display turns back into normal operation and the parameter is stored.

The countdown on the first row helps to control the left time.

LCD DIMMER
SETUP


9 sec to EXIT&STORE
 SETUP: sec LCD ON
 30 sec

Display example

LCD DIMMER

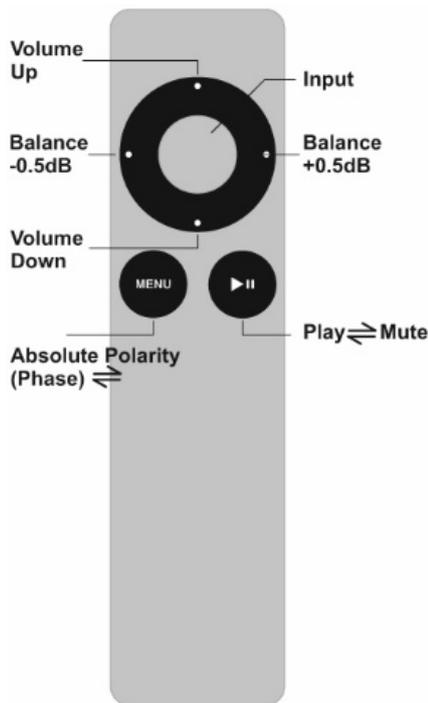
Turning the right knob (VOLUME) changes the display ON time.

Timer Settings: 10s / 20s / 30s / 40s / 50s / always on

After 10 seconds without interaction at the right knob, the display turns back into normal operation and the parameter is stored.

The countdown on the first row helps to control the left time.

INFRARED REMOTE CONTROLLER



Button	Value
Balance	Left to Right in steps of 0.5dB each. Range is 0-5dB
Volume	Up and Down steps of 1.0dB. Range is -60dB to 0dB
Phase	Absolute Polarity < toggle > Inverse Absolute Polarity
Mute	Mute < toggle > Play
Input	Skip to the following active INPUT

How to pair the remote controller (RC).

The RC coming with each *ZeroUno*_{DAC} has been paired already with the DAC in the factory by selecting one of 256 possible pairing codes.

In case of interference with the RC's of other electronics in the household, the preselected RC inner code can be changed at any time.

To change the code of the RC press the SETUP and POLARITY buttons at the RC simultaneously for at least 5 seconds. The RC automatically swaps to another of the 256 possible codes stored in it.

If there is still interference with other RC's in the household, please restart the process above described to generate another code.

The procedure is the same, if you have a compatible RC.

When the RC communicates with the *ZeroUno*_{DAC}, a dot appears at the bottom-right corner of the display.

If this dot does not appear, check the battery inside.

It is standard CR2032B battery.

When replacing the battery, pay attention to insert in the right way.

If this dot appears, but the *ZeroUno*_{DAC} does not react, the RC is not paired with the *ZeroUno*_{DAC}.

To pair the RC and the *ZeroUno*_{DAC}:

- 1) Move the RC in front of the *ZeroUno*_{DAC} (about 1 meter).
- 2) Enter in SETUP mode pressing the SETUP button for at least 2 seconds and less than 10 seconds.
- 3) When in SETUP Mode, KEEP PRESSED the INPUT button close the Volume knob.
- 4) Holding the INPUT button pressed, PRESS again the SETUP button.
- 5) Release both buttons (INPUT & SETUP).
- 6) RC now is paired.

To get an instant feedback about the *ZeroUno* DAC status, every time a key is pressed at the RC, the display shows for 5 seconds the value in big digits.



When the **VOLUME** keys are pressed, the attenuation changes with steps of 1.0dB. Range is -60dB to 0dB.

If the key is kept pressed, the attenuation changes quickly.



If no key is pressed within 10 seconds, the *ZeroUno* DAC automatically stores the values shown at the display and switches back to the PLAY/MUTE mode.



When the **BALANCE** keys are pressed, the balance changes in 0.5dB steps. Range is LEFT -5.0dB to RIGHT +5.0dB.

To help the user the 1st row of the display reports a bar showing the position of the balance value in the range -5.0dB to 5.0dB.



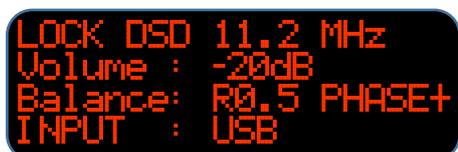
When the balance is set to 0.0dB the display shows clearly the condition.



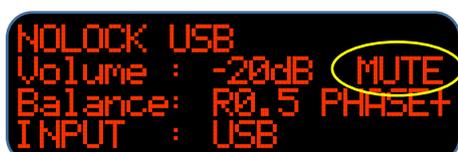
If no key is pressed within 10 seconds, the *ZeroUno* DAC automatically stores the values shown at the display and switches back to the PLAY/MUTE mode.



When the **MUTE** key is pressed, the *ZeroUno* DAC is muted and the display *never* switches back to the standard size view until the MUTE key is pressed again.

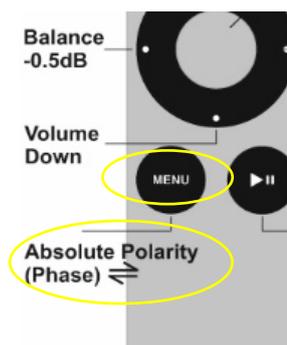


After the MUTE key is pressed again, the *ZeroUno* DAC is un-muted. The display turns back into normal operation.



When MUTE appears at the display in standard size, this means, that there is no signal locked at the selected INPUT and the *ZeroUno* DAC automatically switches to MUTE.

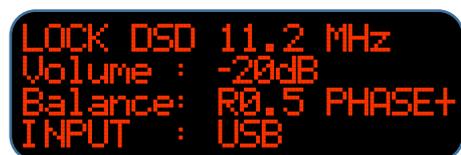
This function is totally independent from the MUTE imposed by the user.



When the **MENU** key is pressed, the value switches between absolute polarity listening PHASE+ and inverse absolute polarity listening PHASE-.

As during the recording, the mastering and the production process the absolute polarity of the music program is changing many times, the final digital master file can be stored in inverted polarity. As some listeners are very sensitive to this fact, the *ZeroUno* _{DAC} gives the customer the option to change the absolute polarity of the music file by pushing the MENU button at the remote control.

If no key is pressed within 10 seconds, the *ZeroUno* _{DAC} automatically stores the values shown at the display and switches back to the PLAY/MUTE mode.



When the **INPUT** key is pressed, the *ZeroUno* _{DAC} switches between the digital INPUTs.

The *ZeroUno* _{DAC} is completely configured by the factory for top performance.

To give the user maximum flexibility, the SETUP mode is implemented.

To RESTORE the factory values the SETUP button at the front panel of the *ZeroUno* _{DAC} must be pressed for at least 10 seconds.

A countdown running on the 2nd row of the display, assists the user during this process.

The Specifications in this document are subject to change without notice.

CanEVER AUDIO®

Canever Ing. Mario Panfilo Castaldi 6 30020 Noventa di Piave Venice - Italy
 ph. +39 335 708 2 807 mail info@canever.eu web www.canever.eu
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