ZeroUno PLUS ULTRA

Analog & Digital Preamplifier

OPERATING INSTRUCTIONS
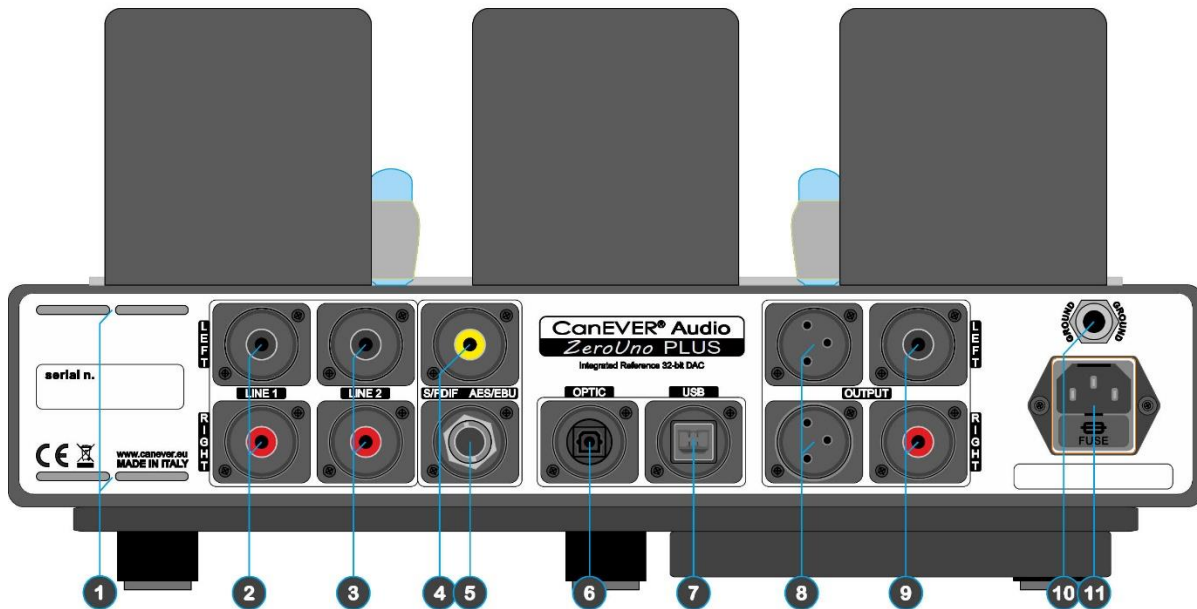

CanEVER AUDIO®

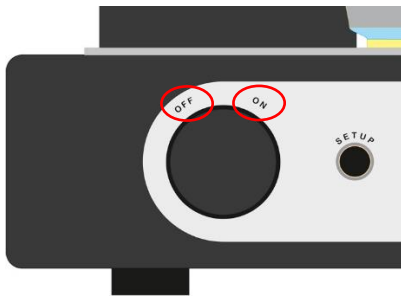## FRONT and REAR view

① ON/OFF switch	④ LCD Display
② SETUP button if pressed for at least 2 sec. or RESTORE button if pressed for more than 10 sec	⑤ INFRARED RECEIVER - do not cover
	⑥ INPUT SELECTOR button
③ LED for factory use	⑦ VOLUME / PARAMETER knob

|	
① VENT DOOR – DO NOT COVER	⑦ USB 2.0 input
② LINE 1 Analog Input	⑧ Left & Right True Balanced Outputs
③ LINE 2 Analog Input	⑨ Left & Right Unbalanced RCA Outputs
④ S/PDIF 75Ω RCA Input	⑩ Ground Connection
⑤ AES/EBU 110Ω XLR Input (BNC optional)	⑪ 230Vac (110Vac in alternative) IEC Socket.
⑥ OPTICAL Input	

ON /OFF

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

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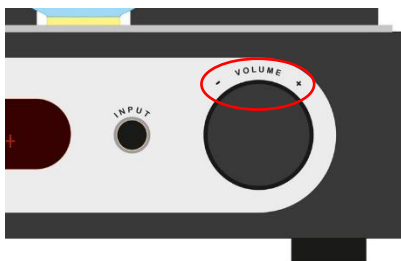

INPUT BUTTON
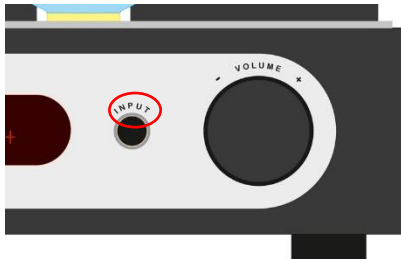
Press the **INPUT** button to switch from one input to another in the following order:
- LINE 1 / ANALOG
- LINE 2 / ANALOG
- RCA SPDIF
- XLR AES/EBU SPDIF
- OPTICAL SPDIF
- USB (i²S or DoP with auto detection)

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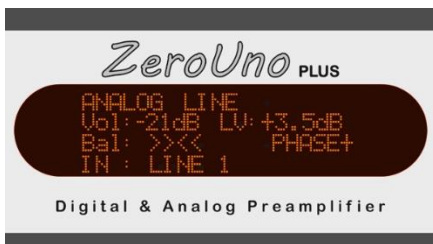

VOLUME

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 -65dB – 0dB.

DISPLAY

In PLAY mode the display reports the status of the *ZeroUno* **PLUS** .
- The first row at the display shows the type of the incoming audio signal. In case, this is a digital signal, the lock status is shown.
- The second row shows the *volume* and *level* adjustment in dB.
- The third row shows the *balance* and the listening *phase*.
- The fourth row shows the active *input*.
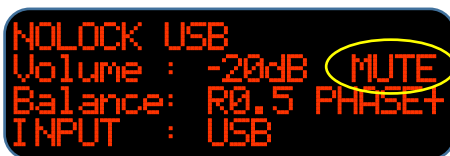
When MUTE appears in the second row at the display in standard size, there is no signal locked at the currently selected INPUT.

In this case the *ZeroUno* **PLUS** automatically switches to MUTE.

PARAMETERs SETUP

To enter the SETUP mode, press the SETUP button for at least 2 seconds, but less than 10 seconds.
Press the SETUP button again to skip from one parameter to the next.

BIG 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.

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.

BALANCE SETUP

```
7 sec to EXIT&STORE

SETUP:BALANCE
        RIGHT 1.5dB
```
Display example

BALANCE

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

LEVEL ADJUSTMENT

```
2 sec to EXIT&STORE

SETUP:LEVEL
        +7.5dB
```
Display example

LEVEL

Turning the right knob (VOLUME) changes the LEVEL value.
During the process the user can listen to the sound and adjust the level by ear.
Level range is from -26dB to +17dB 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.

DIRECT LEVEL ADJUSTMENT
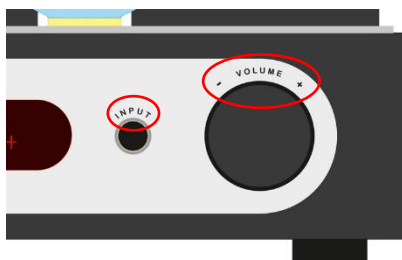
SHORTCUT for DIRECT LEVEL ADJUSTMENT

For flexibility, it is possible to adjust the LEVEL *without* the need to enter in SETUP mode.
While in PLAY mode, to adjust the level:
- Press the INPUT button and keep it pressed.
- Then rotate the VOLUME knob left or right.
- The level adjustment is shown at the display.

INPUT NAME

```
4 sec to EXIT&STORE

SETUP:name LINE1 in
         PHONO
```
Display example

ASSIGN AN INPUT NAME TO LINE INPUT 1 and/or INPUT 2
For the two analog inputs, it is possible to assign a name.
The names set by the factory are LINE_1 and LINE_2.

Press the INPUT button right of the display
to select LINE_1 or LINE_2.

To rename the input channel, rotate the VOLUME knob to select the desired name (PHONO, TAPE, TUNER, LINE_1, LINE_2, AUX_1, AUX_2) for the selected input.

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%
```
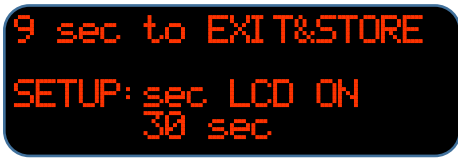Display example

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.

INPUTs BYPASS

```
9 sec to EXIT&STORE

SETUP:SELECT INPUT
       OPTIC dig NO
```
Display example

ACTIVATE OR MUTE INPUT CHANNELS
For convenience the user can activate only those input channels, which are connected to a source and mute those, which are not connected to a source. It is possible as well to mute all input channels but only two, which the user wants compare. Maybe to check the signal quality of the signal coming from a CD player and that coming from a computer or a music server via the USB input. Or, to compare the signal quality coming from an analog turntable and that coming from the music server via USB.
Press the INPUT button to select the input channel You want to mute.
Then rotate the VOLUME knob to set the selected input channel as *active* or as *bypassed.*

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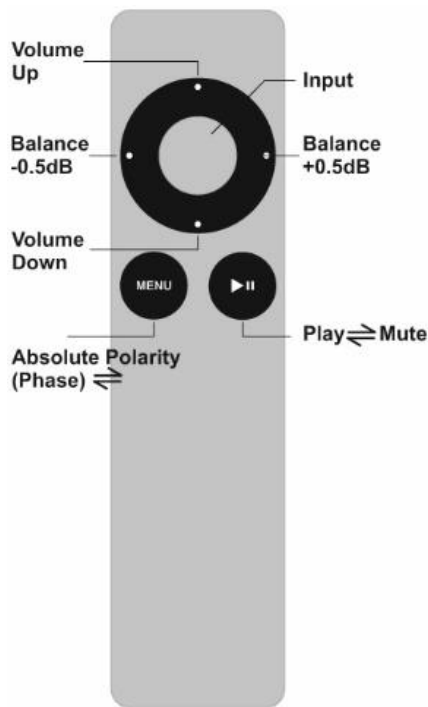
Button	Value
Balance	*Left to Right in steps of 0.5dB each. Range is 0-5dB*
Volume	*Up and Down steps of 1.0dB. Range is -60dB to 0dB*
Phase	*Absolute Polarity < toggle > Inverse Absolute Polarity*
Mute	*Mute < toggle > Play*
Input	*Skip to the following active INPUT*

How to pair the remote controller (RC).
The RC coming with each *ZeroUno* ₚₗᵤₛ has been paired to the unit already 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 code can be changed at any time.
To pair the RC and the *ZeroUno* ₚₗᵤₛ do the following:
1) Move the RC in front of the *ZeroUno* ₚₗᵤₛ (about 1 meter).
2) Press any button on the RC.
3) Enter in SETUP mode pressing the SETUP button for at least 2 seconds and less than 10 seconds.
4) When in SETUP Mode, KEEP PRESSED the INPUT button close the Volume knob.
5) Holding the INPUT button pressed, PRESS again the SETUP button.
6) Release both buttons (INPUT & SETUP).
7) RC now is paired.

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

When the RC communicates with the *ZeroUno* ₚₗᵤₛ, a dot appears at the bottom-right corner of the display.

If this dot does not appear, check the battery inside the RC controller (battery type: CR2032B)
When replacing the battery, pay attention to insert it in the right way (check +/- position!!!).

To get an instant feedback about the *ZeroUno* ₚₗᵤₛ status, every time the VOLUME, BALANCE and MUTE button is pressed at the RC, the display shows the value for VOLUME, BALANCE and MUTE in tall digits for 5 seconds.
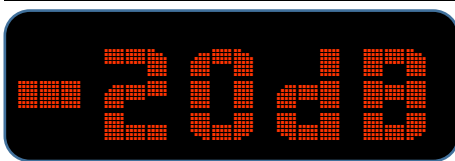
When the **VOLUME** buttons are pressed the attenuation changes in steps of 1.0dB.
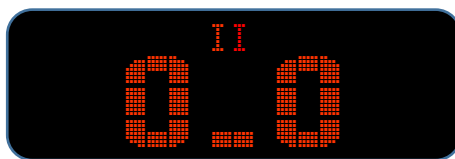The range is -65dB to 0dB.
If the button is pressed constantly, the attenuation changes quickly.

When the **BALANCE** buttons are pressed, the balance changes in steps of 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.
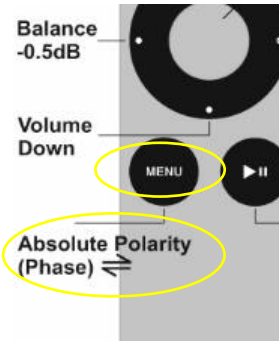

When the balance is set to 0.0dB the display shows clearly the condition.

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

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

When the **MENU** button 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* ₚₗᵤₛ gives the customer the option to change the absolute polarity of the music file by pushing the MENU button at the remote control.
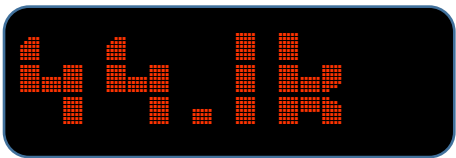
If no key is pressed within 10 seconds, the *ZeroUno* ₚₗᵤₛ automatically stores the values shown at the display and switches back to the PLAY/MUTE mode.
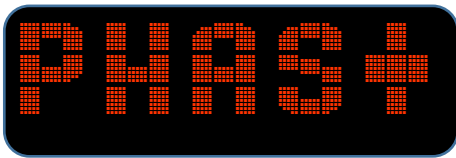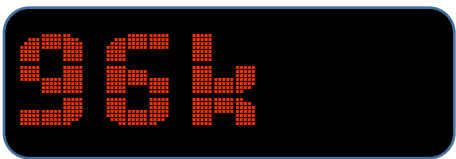
When the **INPUT** button is pressed, the *ZeroUno* ₚₗᵤₛ switches between the INPUTs.

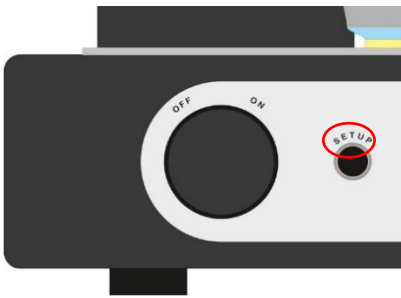In the last row of the display the selected INPUT is shown.

When there is a change in the sampling rate of the incoming music file, the locked frequency is shown in big digits.

By the parameter BIG SAMPLING RATE is possible to toggle on / off the function.

RESTORE OF FACTORY SETTINGS

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

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

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

A countdown running in the second row of the display is shown, when the *ZeroUno* _{PLUS} has engaged the RESTORE command.

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