

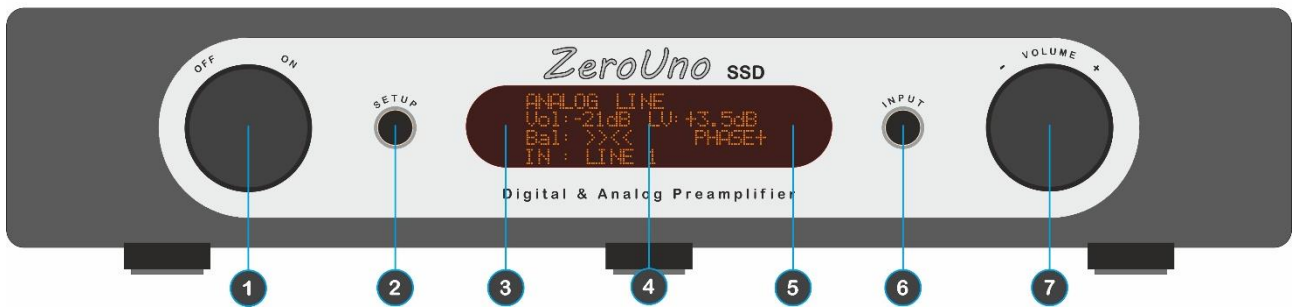
ZeroUno_{SSD}

Digital to Analog Converter - DAC
Preamplifier with an integrated DAC

OPERATING INSTRUCTIONS

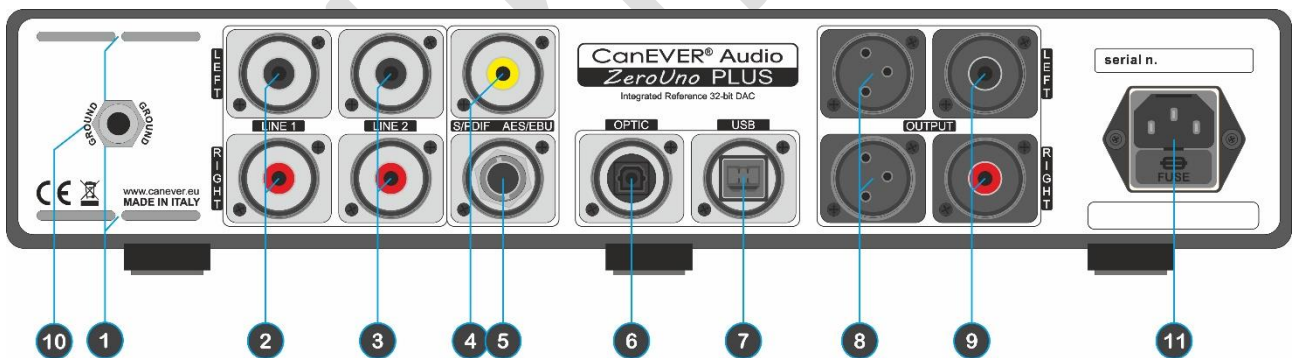


FRONT view



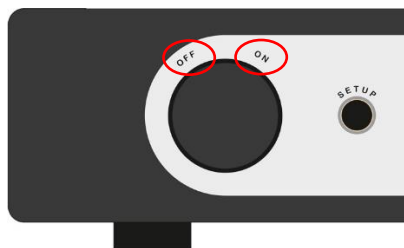
- | | |
|--|------------------------------------|
| ① ON/OFF switch | ④ LCD Display |
| ② SETUP button if pressed for at least 2 sec. or
RESTORE button if pressed for more than 10 sec | ⑤ INFRARED RECEIVER - do not cover |
| ③ LED for MQA, MQA Studio | ⑥ INPUT SELECTOR button |
| | ⑦ VOLUME / PARAMETER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

REAR view



- | | |
|---|---|
| ① VENT DOOR – DO NOT COVER | ⑦ USB 2.0 input |
| ② LINE 1 Analog Input | ⑧ (Optional) 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_{SSD}
 ON ZeroUno_{SSD} is powered on

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.

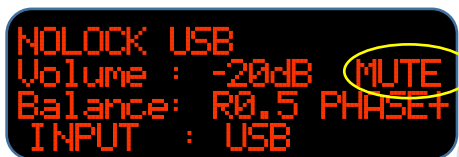
Volume range is -6dB – 0dB.

DISPLAY



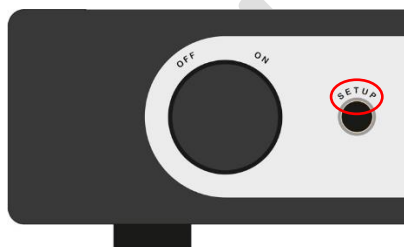
In PLAY mode the display reports the status of the ZeroUno_{SSD}.

- The first row at the display shows the LOCK on the coming signal.
- The second row shows the VOLUME (really the attenuation) in dB.
- The third row shows the BALANCE and the ABSOLUTE PHASE.
- The fourth row shows the active INPUT.



When a MUTE appears at the display, there is no signal locked at the selected INPUT and the ZeroUno_{SSD} has automatically switched to MUTE.

SETUP



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

The value of each parameter is visible at the display.

Press the SETUP button again to skip to the next parameter.

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



If no button is pressed, or the right knob is not turned within 10 seconds, the ZeroUno_{SSD} 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, to keep the setup information after the unit is switched off.

INPUT BUTTON

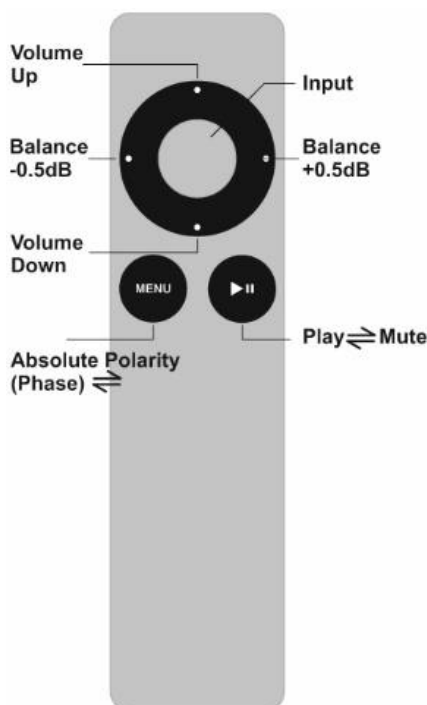


Press the **INPUT** button to switch from one input to another in the following order:

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

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

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_{SSD} 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_{SSD} do the following:

- Move the RC in front of the ZeroUno_{SSD} (about 1 meter).
- Press any button on the RC.
- Enter in SETUP mode pressing the SETUP button for at least 2 seconds and less than 10 seconds.
- When in SETUP Mode, PRESS and KEEP PRESSED the INPUT button close the Volume knob.
- Holding the INPUT button pressed, PRESS again the SETUP button.
- Release both buttons (INPUT & SETUP).

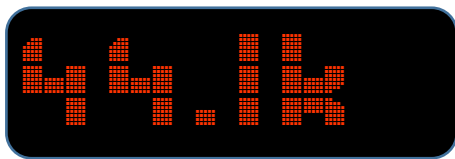
RC now is paired.

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

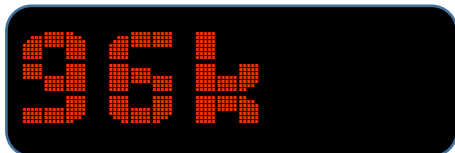
When the RC communicates with the ZeroUno_{SSD}, a dot appears at the bottom-right corner of the display.

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!!!).

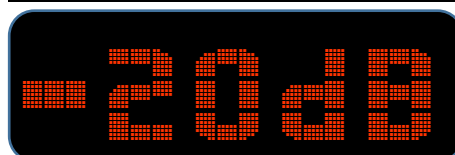
To get instant feedback about the *ZeroUno* _{SSD} status, every time a button is pressed at the RC, the display shows for 5 seconds the value in big digits.



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.



When the **VOLUME** is pressed, the attenuation changes in steps of 1.0dB.

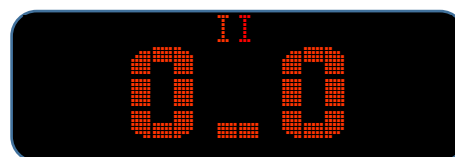
The range is -65dB to 0dB.

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

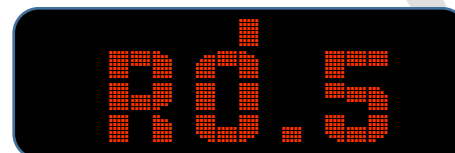


When the **BALANCE** buttons are pressed, the balance changes in steps of 0.5dB.

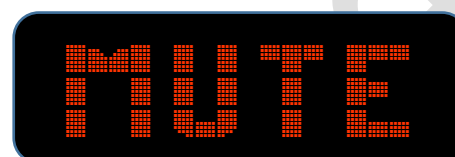
The range is LEFT -5.0dB to RIGHT +5.0dB.



To help the user the first 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* _{SSD} 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* _{SSD} is un-muted. The display turns back into normal operation.



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

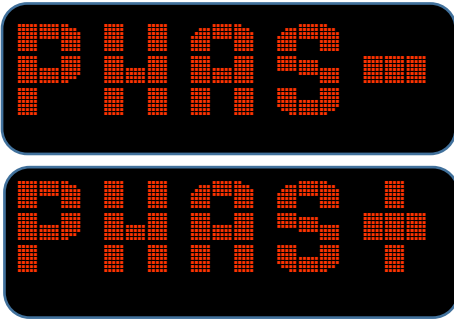
In the last row of the display the selected INPUT is showed.





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* SSD 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 button is pressed within 10 seconds, the *ZeroUno* SSD automatically stores the values shown at the display and switches back to the PLAY/MUTE mode.

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.

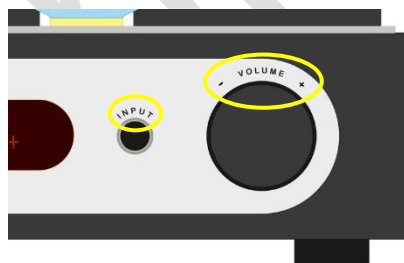
During the process the user can listen to the sound and adjust the level by ear.

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



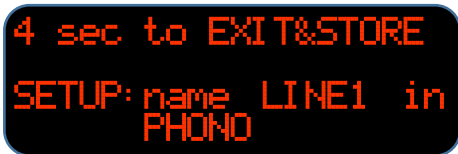
SHORTCUT for DIRECT LEVEL ADJUSTMENT

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



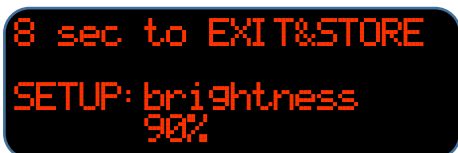
Display example

RENAME of INPUTS

Turn the volume knob to change the NAME of an specific INPUT. The following names are available: USB, OPTIC, AES/EBU, SPDIF, STREAMER, PC, CD, DVD, SAT, DAT, MD, PHONO, TAPE, TUNER, LINE_1, LINE_2, AUX_1, AUX_2,

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



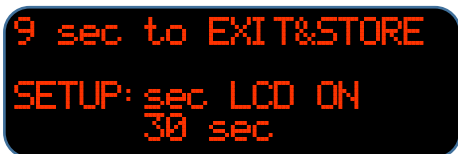
Display example

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



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.

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.

INPUTs BYPASS

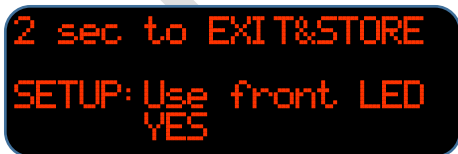


Display example

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.

USE FRONT LED



Display example

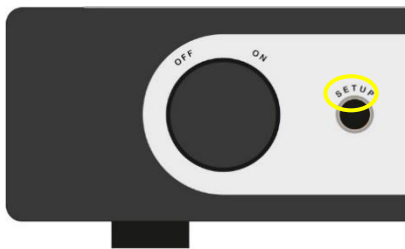
STATUS LED

- RED non MQA (Master Quality Authenticated) track is playing
- BLUE MQA studio track is playing
- GREEN MQA track is playing

Turn the volume knob to choose, if you want to turn on the STATUS LED at all.

After 10 seconds without interaction at the right knob, the display returns to normal operation and the parameter is stored. The countdown on the first row helps to control the time left.

RESTORE OF FACTORY SETTINGS



The *ZeroUno* SSD is completely configured by the factory for top performance.

To **RESTORE** the factory setup, press the SETUP button at the front panel of the *ZeroUno* SSD 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.

A countdown running on the second row of the display is shown, when the *ZeroUno* SSD has engaged the RESTORE command.

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

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

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