



BY PRO-JECT AUDIO SYSTEMS

# INSTRUCTIONS FOR USE Pro-Ject Vinyl NRS Box S3

Dear music lover,

thank you for purchasing this Pro-Ject Audio Systems' product.

In order to achieve maximum performance and reliability you should study these instructions for use carefully.



*Warning of a hazard for the user, the unit or possible misuse.*



*Important notice.*

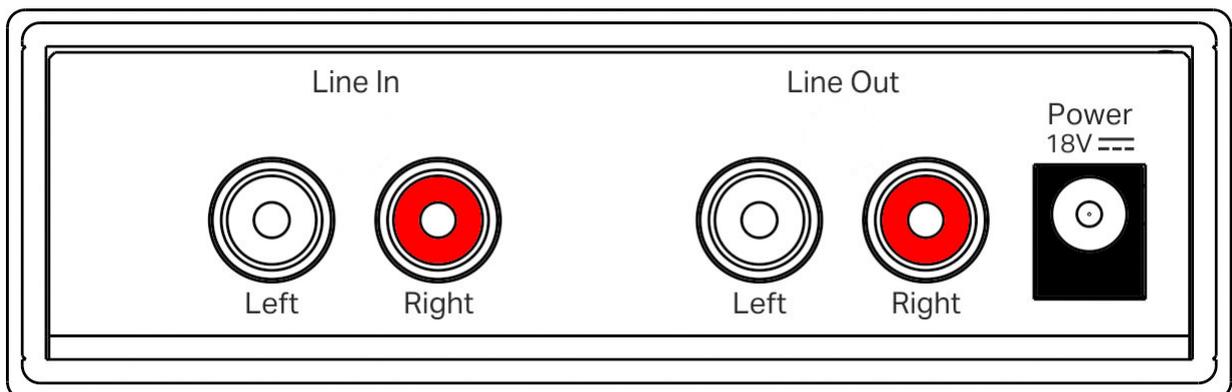
## Safety instructions

*AC outlet voltages vary from country to country. Before connecting to the mains, make sure that the voltage in your area meets the voltage requirements printed on the power supply.*



*The power supply is used to connect/disconnect the unit from the mains. Make sure that the power supply is easily accessible at all times. Never handle the device, the power supply while your hands are wet or damp. Avoid letting liquids enter the device or the power supply. Never place any item containing liquid, such as a flower vase on or near the device. Never spill any liquid on the device or the power supply. Never place any naked flame sources, such as lighted candles on or near the device. The product shall not be used in damp or wet locations, next to a bathtub, sink, swimming pool or any other similar conditions.*

## Connectors



*Make all connections whilst the device is disconnected from the power supply.*

*Take care to connect the left and right channels correctly. The right channel is usually marked red, the left channel black or white. Never use any other power supply than the one supplied with the unit!*

## Line In

Connect the output of the phono preamplifier to the RCA **Line In**.

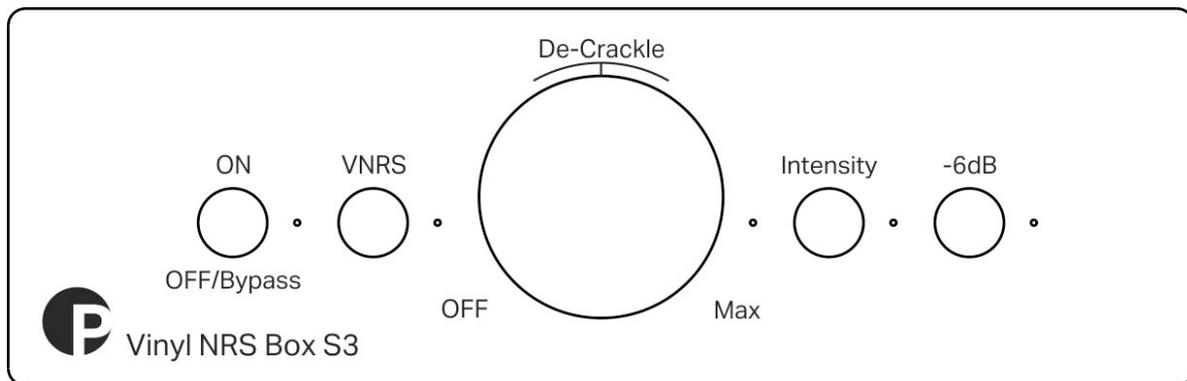
## Line Out

Connect the **Line Out** of your Vinyl NRS Box S3 to a line input of your preamplifier or integrated amplifier.

## Mains power connection

Connect the low voltage plug from the power supply to the **Power 18V DC** socket of the amplifier before connecting the power supply to the mains.

## Front panel controls



### To switch on from standby or to standby

The push button on the left side of the front panel turns the unit on or back into standby/bypass mode. The blue LED beside the stand-by push button shows that the unit is switched on. It takes approximately 3 seconds to activate the electronics until it goes into operational mode. If the unit is switched off, line in and line out sockets are linked together and all the electronics are disconnected from the signal path – pure bypass mode (galvanic bypass).

### VNRS

**VNRS** stands for “Vinyl Noise Reduction System”. If the button is pressed, the system is activated and noise from the played record is reduced. VNRS can reduce vinyl surface noise and turntable drive noise up to 6dB, while played music stays practically untouched. The LED shows the on/off status of the VNRS.

### De-Crackle

The **De-Crackle** function allows you to reduce crackling sounds coming from the record. You can adjust the sensitivity of the algorithm by turning the potentiometer. Normal working position is in the center. If you turn it fully counter-clockwise (left), the algorithm is switched off. (This position is usable if you are playing a perfectly intact record and only want to use VNRS.)

If you are playing a slightly used or slightly damaged record, you must find the optimal position in which the music stays untouched, but the crackling is reduced. Start in the center position. Detected crackle and clicks are indicated by the red LED located right beside the De-Crackle control. If the LED blinks, crackling was detected and reduced. Find the position in which crackling is reduced sufficiently, but the music stays subjectively untouched (with no audible distortion). This position is usually +/-30 degrees left or right from the center position.

The optimal position depends on the status of the used record, type of cartridge and type of phono preamplifier. Optimal position can slightly vary from track to track on the record. In low level parts of the music and between tracks, the De-Crackling system is more sensitive. In this situation, the crackle detection LED blinks more often.

If you want to compare the sound with and without this device, simply switch it OFF. The galvanic bypass takes place, and you can directly compare it to the dry signal. After switching ON, it is necessary to wait about 3 seconds until the operation mode is active.

### Intensity

The De-Crackle algorithm can be used in two intensity levels for reducing of detected crackling. If the Intensity button is not pressed, the basic intensity level is used. If the Intensity button is pressed, the advanced level (stronger) is used. The advanced level is more effective, but could affect the music. For most new or slightly used records, the basic level should be fine. For used records, switch to advanced level. Try to fine tune De-Crackle control individually. Listen in both positions and choose subjectively better one for each record. If advanced intensity level is activated, indication LED lit.

## -6dB

If the input level is too high, clipping can occur. In this case, the red clip LED located right beside the -6dB switch blinks and indicates a system overload. In such a situation, please reduce the gain of your phono preamplifier. If your preamplifier does not have a gain setting, press the -6dB button on your Vinyl NRS Box S3. Clipping should no longer occur.



Note that this reduction does not affect the bypass mode! Bypass mode will be 6 dB louder than operational (ON) mode in this case.

## Technical specifications Pro-Ject Vinyl NRS Box S3

Internal sampling:	96 kHz/24 bits
Internal processing:	56-bit accumulator, double precision
Frequency response 20Hz to 20 kHz:	-0,6 dB / +0,1 dB
Frequency response 30Hz to 20 kHz:	-0,2 dB / +0,1 dB
Clip indication:	-0,6 dB below real clipping
Bypass mode:	galvanic linked together ( $R_{link} < 0,3 \text{ ohm}$ )
THD:	$< 0,009\%$ (500 mV <sub>rms</sub> Input Level)
VNRS noise/rumble reduce:	up to 8dB (20Hz to 20 kHz)
De-Click reduce (basic):	8 dB (3kHz to 20 kHz)
De-Click reduce (intensity):	12 dB (2kHz to 20 kHz)
Outboard power supply:	18V/500mA DC, suitable for your country's mains supply
Power consumption in standby:	0W OFF/Standby, 2.2W ON (without outboard power supply)
Dimensions: WxHxD (D with sockets):	103 x 37 x 104 (119) mm
Weight:	340 g without power supply

## Service

Should you encounter a problem which you are not able to alleviate or identify despite the above information, please contact your dealer for further advice. Only if the problem cannot be resolved there, the unit should be sent to the responsible distributor in your country.

## Warranty



*The manufacturer accepts no responsibility for damage caused by not adhering to these instructions for use. Modification or changes to any part of the product by unauthorized persons release the manufacturer from any liability over and above the lawful rights of the customer.*

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