



BY PRO-JECT AUDIO SYSTEMS

# INSTRUCTIONS FOR USE

## Pro-Ject A/D Phono Box S

Dear music lover,

thank you for purchasing an A/D Phono Box S from Pro-Ject Audio Systems.

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 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.

## Setting the cartridge mode

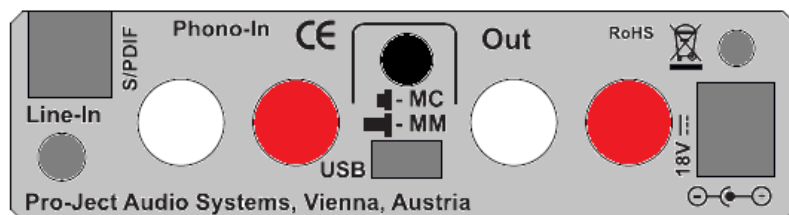
The phono amplifier can be used in either MM (for moving magnet and high-output MC cartridges) or MC (for low-output MC cartridges) mode according to the construction principle of the pickup cartridge to be used. Since most cartridges use the MM principle the phono amplifier is factory set to operate in this mode. To find out which type your cartridge is please consult the literature accompanying your cartridge. If in doubt please consult your dealer.

A switch at the back of the phono amplifier sets the correct level of amplification for the cartridge.



*Before setting MM / MC mode the unit must be disconnected from the power supply and amplifier.*

## Connectors



Make all connections whilst the phono amplifier 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.



Do not connect the phono amplifiers output to a phono input (sometimes labelled **gram**, **disc** or **RIAA**) on the amplifier.

Never use any other power supply than the one supplied with the unit.

## Connecting the record player or a line level source

Connect the tonearm signal lead to the sockets **Phono-In** of the phono amplifier. The earthing wire of the tonearm signal lead may be connected to the screw terminal if you encounter hum problems when using the record player. The signal lead of a line level source has to be connected to the socket **Line-In**.

## Connection to the amplifier

Connect the **Out** of the phono amplifier to a line input (such as **AUX**, **CD**, **Tuner**, **Tape** or **Video**) on your amplifier.

## Connection to the amplifier over S/PDIF

Use optical cable for digital connection to your amplifier. A computer has to be connected with A/D Phono Box S and turned on to activate S/PDIF output.

Following settings have to be done in Computer to achieve desired behaviour (example for Windows 7 and Windows 8):

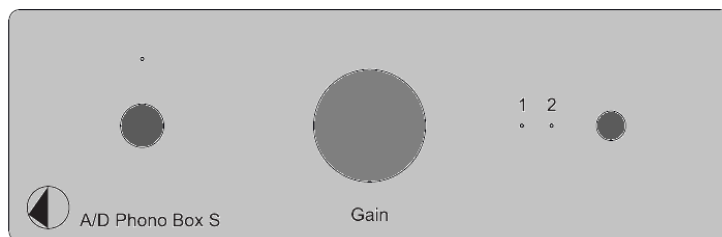
Open **Control panel** -> **Hardware and Sound** -> **Sound** and open tab **Recording**.

Choose "USB Audio CODEC" and click on **Properties**. Open tab **Listen** check the checkbox **Listen to this device** and choose "Speakers (USB Audio CODEC)" as a playback device.

## Mains power connection

Connect the low voltage plug from the power supply to the **Power 18V DC** socket of the phono 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 hand side will toggle the phono amplifier between its fully operational status and standby. The blue LED above the stand-by push button shows that the unit is switched on.

## Input selector

Pressing the push button next to the two LEDs to switch between the inputs **1** (record player) and **2** (line level source). The selected input will be shown by the corresponding LED on the phono amplifier.

## Setting the record level

In case of distorted playback of the recorded music, the level of the analogue signal going to the A/D converter can be reduced with the level control (**Gain**) on the front panel.

## Connecting to a Computer

Connect the USB-output of the unit to a free USB-socket on your computer and turn it on/make sure it is powered on.

The "new hardware found assistant" will automatically detect the unit and announces it as a **Microphone USB audio codec**. There is no need to install a driver manually.

After installation, one setting has to be done. For example - Windows 7® operating system:

→ Control Panel → Sound → Recording → **Microphone USB Audio CODEC** → Properties →

Advanced: set to **2 channel, 16 bit, 48000 Hz (DVD Quality)**



*Please note: Connection should be made to an USB-socket of your computer directly. Connecting to USB-hubs or switches can cause problems.*

## Recording Programme

In case you do not have a recording programme installed on your computer, you may download one free from the Internet. Recording programmes can be found easily by searching Google or Yahoo.



*In the menu of the recording programme, source or input may have to be set to **Microphone USB audio codec**. Please be aware that downloads from the Internet are made entirely at your own risk. Under no circumstances can Pro-Ject Audio Systmes carry responsibility or provide support for third-party software products sourced from the internet or for any damage or problems arising from the use thereof. All downloads should be checked with an up-to-date anti-virus programme. License fees may be applicable.*

## Technical specifications Pro-Ject A/D Phono Box S

<sup>A</sup> Typical for low output MC cartridges, <sup>B</sup> typical for MM or high output MC cartridges

Input capacitance/input impedance, MC: 100ohms/120pF<sup>A</sup>

Input capacitance/input impedance, MM: 47kohms/120pF<sup>B</sup>

Gain, MM: 40dB

Output voltage typically: 300mV/1kHz at 3mV (MM input)

Gain, MC: 60dB

Output voltage typically: 300mV/1kHz at 0,3mV (MC input)

Gain, line level input: 11dB

Max. output 9,5Vrms / 1kHz

Noise floor, MM / MC: 94dB (A weighted) / 75dB (A weighted)

THD, MM / MC: <0,01% / <0,05%

RIAA-equalisation curve accuracy: 20Hz - 20kHz / max. 0,5dB

A/D converter: Burr Brown PCM2904 16-Bit Delta Sigma

Sampling rates: 32, 44,1 and 48kHz

USB output: 5 pin mini b connector (USB cable supplied)

USB signal: digital serial data protocol USB 1.1

Operating systems: Windows XP®, Windows VISTA®, Windows 7®, Windows 8®, Mac

Inputs (**Phono-In** / **Line-In**): 1 pair RCA/phono sockets / 3-pole 3,5mm co-axial jack

Output: 1 pair RCA/phono sockets

1 x S/PDIF optical

THD: 0,005%

Noise floor: 96dB

Dynamic range: 93dB

Outboard power supply: 18V/500mA DC

Power consumption: 100mA DC, <1W in standby

Dimensions W x H x D (D with sockets): 103 x 36 x 104 (115)mm

Weight: 580g without power supply

## Potential incorrect use and fault conditions

No signal on one or both channels:

No connection between player and phono amplifier or amplifier. This could be due to a faulty plug, broken wire or solder joint or simply loose plug/socket connection.

Strong hum:

No earth connection from cartridge or arm, or arm cable to phono amplifier, or earth loop.

Output too quiet or too loud, or distorted:

MM / MC mode incorrectly set - input overloading or insufficiently amplified.

## 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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