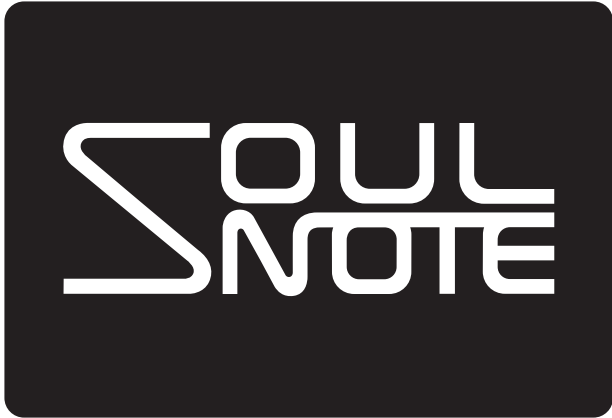




D-1NT User Guide

D/A Converter unit

D-1N										D/A CONVERTER																			
22.6M 11.2M 5.6M 2.8M										768K 705.6K 384K 352.8K 192K 176.4K 96K 88.2K 48K 44.1K OTHER										1 2 3 4				USB COAX1 COAX2 AES/EBU					
○ ○ ○ ○										○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○										○ ○ ○ ○				○ ○ ○ ○					
POWER										LOCK RANGE SELECTOR										INPUT SELECTOR									
○																				○ ○									

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Supplied Accessories

- User Guide (this manual) 1
- Power cable 1
- Spike pin 3
- Wrench(Spanner)..... 1

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Safety Precautions



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO
RAIN OR MOISTURE.

A warning that an apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.

IMPORTANT SAFETY INSTRUCTIONS

READ BEFORE OPERATING EQUIPMENT

This product was designed and manufactured to meet strict quality and safety standards.

There are, however, some installation and operation precautions which you should be particularly aware of.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings.
Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.



CAUTION:

- To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet. The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.
- Never use the unit with any other cord except the supplied power cord.

NOTE ON USE

WARNINGS

- Avoid high temperatures.
Allow for sufficient heat dispersion when installed in a rack.
- Handle the power cord carefully.
Hold the plug when unplugging the cord.
- Keep the unit free from moisture, water, and dust.
- Unplug the power cord when not using the unit for long periods of time.
- Do not obstruct the ventilation holes.
- Do not let foreign objects into the unit.
- Do not let insecticides, benzene, and thinner come in contact with the unit.
- Never disassemble or modify the unit in any way.
- Ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths or curtains.
- Naked flame sources such as lighted candles should not be placed on the unit.
- Observe and follow local regulations regarding battery disposal.
- Do not expose the unit to dripping or splashing fluids.
- Do not place objects filled with liquids, such as vases, on the unit.
- Do not handle the mains cord with wet hands.
- When the switch is in the OFF position, the equipment is not completely switched off from MAINS.
- The equipment shall be installed near the power supply so that the power supply is easily accessible.

DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards:

EN60065, EN55032, EN55020.

Following the provisions of Low Voltage Directive 2014/35/EU and EMC Directive 2014/30/EU.

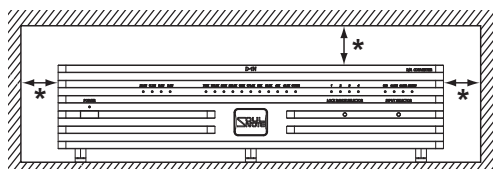
A NOTE ABOUT RECYCLING:

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations. When discarding the unit, comply with local rules or regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal. This product and the supplied accessories, excluding the batteries, constitute the applicable product according to the WEEE directive.



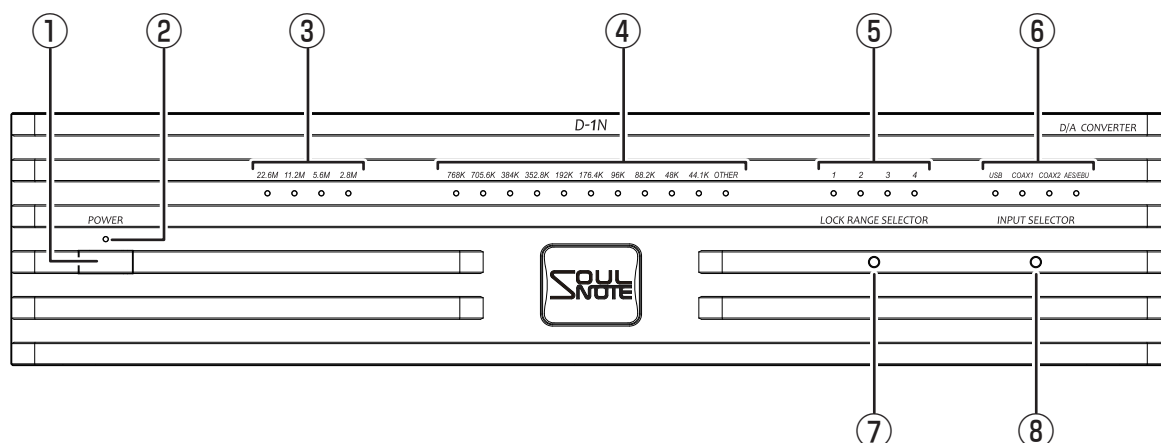
CAUTIONS ON INSTALLATION



*** For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.**

- Leave sufficient clearance (at least 10 cm) from the wall, (at least 5 cm) from top surface of the unit.
- Do not place any other equipment on this unit.

Front Panel Names and Functions



① Power Switch (POWER)

Press to turn on the power, and press again to turn off. Sound is output after approx. 5 seconds have passed since the power switch is turned on.

② Power Indicator (POWER)

When the power is on, the indicator is lit red.

③ DSD Frequency Indicators

An indicator indicates the frequency of the DSD digital input signal of the selected source .

④ PCM Sampling Frequency Indicators

An indicator indicates the sampling frequency of the PCM digital input signal of the selected source .

⑤ Lock Range Selector

An indicator indicates the selected lock range of the DPLL. When all of the indicators are unlit, this means that NOS mode (Non-oversampling) is enabled.

⑥ Input Selector Indicators

An indicator of the selected input lights up.

⑦ Lock Range Selector / NOS Mode Button

When pressed, the lock range of the DPLL changes. To enable NOS mode, press this button repeatedly several times. After doing so, all of the lock range indicators become unlit.

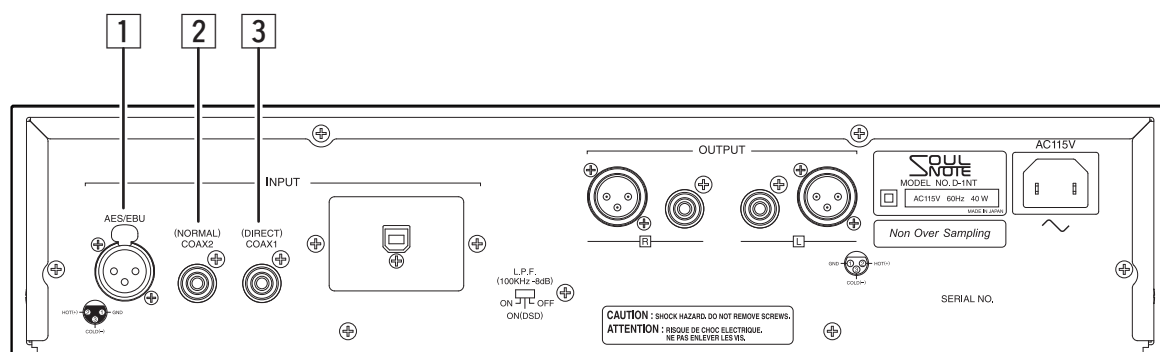
Notes:

- When NOS mode is enabled, the sampling frequency is indicated only when the USB is inputted.
- If a DSD signal is input while NOS mode is selected, NOS mode becomes disabled. When the PCM signal is input again, NOS mode is enabled once again.
- When the frequency is 705.6 kHz or 768 kHz, NOS mode stays enabled.
- The lock range is narrowest at [1] and progressively widens as the number increases to [2], [3], and [4].
- Normally, the narrower the lock range is, the less there is of jitter, which in turn translates into higher sound quality. However, depending on the clock accuracy of the transmitting device, the sound may momentarily skip when beyond the lock range. In such a case, set the lock range to a wider setting.

⑧ Input Selector Button (Selector)

Use this button to select an input source connected to a digital input terminal (USB, COAX1, COAX2, or AES/EBU) on the rear panel. Each time the button is pressed, a different input is selected.

Rear Panel Names and Functions



1 AES/EBU Input Terminals

External devices equipped with an AES/EBU digital output terminal can be connected to these terminals by using an XLR digital cable.

This terminal supports 22.05 to 192 kHz, 16 to 24 bits, DSD 64, and DoP v1.1.

2 Coaxial Input Terminal (COAXIAL: NORMAL)

Use a 75 ohm coaxial digital cable to connect this terminal to an external device equipped with a digital output that supports S/PDIF format that can carry 2 channels (stereo) of PCM.

This terminal supports 22.05 to 192 kHz, 16 to 24 bits, DSD 64, and DoP v1.1.

3 Coaxial Input Terminal (COAXIAL: DIRECT)

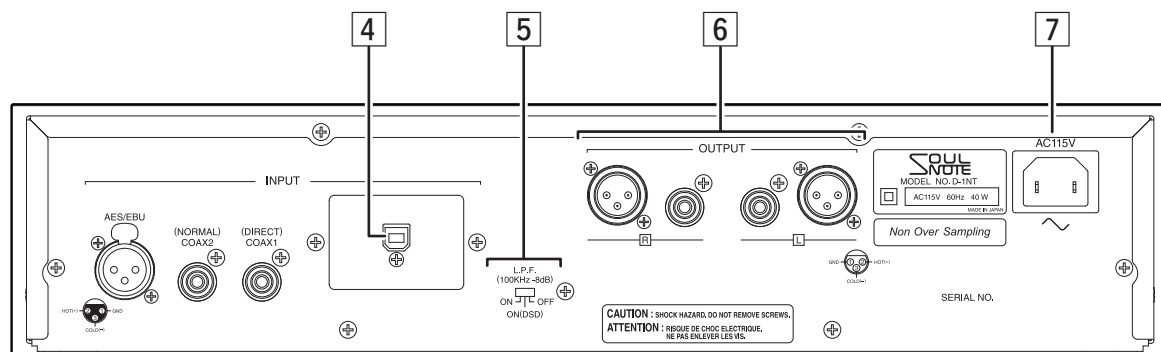
Use a 75 ohm coaxial digital cable to connect this terminal to an external device equipped with a digital output that supports S/PDIF format that can carry 2 channels (stereo) of PCM.

The coupling capacitor is not used for this terminal. Although operation of SOULNOTE devices have been tested and verified without issues, if no sound is heard on a device of another manufacturer, please connect the device to the NORMAL terminal.

Cautions

- When connecting a cable to any of the input terminals or output terminals, make sure that the power of this equipment is off.
- When connecting a SOULNOTE device, you may connect the device to either the NORMAL terminal or the DIRECT terminal.

When the DIRECT terminal is used, you can enjoy higher quality sound output. To ensure this quality, unplug the analog signal cable connecting the player and amplifier together. This cable may generate noise.



4 USB 2.0 Input Terminal

A computer, etc., can be connected to this terminal by using a USB 2.0 cable with a type-B connector (standard type). USB connection is achieved through a duplex communication between this equipment and a computer. Jamming or cutting the communication may result in serious error in the operating system of the computer. When a computer is connected via USB, do not perform the following operations.

- Repeatedly turning on and off the power of this equipment
- Repeatedly switching the input between USB and any other settings by using the input selector
- Repeatedly plugging and unplugging the USB cable
- Connecting via a USB hub

Notes:

- For a Windows computer, a designated driver is required. The driver can be downloaded from CSR, Inc. website.
- If an error occurs, the frequency display flashes. In this case, turn off the power of this equipment and then turn it on again.
- For connecting with a mobile device or a tablet PC, an OTG cable is required. There may be a case where an Android cell phone cannot be connected with this equipment.

5 Analog Low-Pass Filter Switch (L.P.F)

This switch is for enabling or disabling a cut-off frequency of the analog low-pass filter. (100 kHz, -8dB)

ON :

L.P.F is always on. (100 kHz, -8dB)

ON (DSD) :

L.P.F is activated only during DSD playback. (Factory setting)

OFF :

L.P.F is disabled. (100 kHz, -0.7dB)

Note:

- If the amplifier to be connected is a SOULNOTE product, you can enjoy higher quality sound output by turning this switch OFF.

6 Analog Output Terminals (OUTPUT)

The line input terminal of an amplifier is connected to one of these terminals.

• Unbalanced Output Terminals

Connect to unbalanced input terminals with RCA connectors.

• Balanced Output Terminals

Connect to balanced input terminals with XLR connectors.

Note:

- For details, see “Balanced Input/Output”.

7 AC Inlet (AC115V)

Connect to a 115 V AC wall outlet (mains) with the supplied power cable.

USB Connection with a Computer

Windows

To play back DSD/PCM files, install the designated driver to your computer.

Recommended computer specifications

OS : Windows10, Windows 8.1, Windows 8, Windows 7
CPU : Intel Core 2 processor, 1.6 GHz or higher
Memory : 1.0 GB or higher

Mac OS

Operations can be performed with a Mac OS X standard driver.

Recommended computer specifications

OS : Mac OS X 10.11, Mac OS X 10.10,
Mac OS X 10.9, Mac OS X 10.8 or later

When using for the first time (how to install the driver)

1. Access the following website to download the designated driver.
http://www.kcsr.co.jp/sn_software.html
2. Without this equipment connected to your computer, start your computer.
3. Before connecting this equipment to the computer, install the designated driver to your computer following the instructions.
4. After the installation completes, restart the computer.
5. After the restart operation completes, connect this equipment to the computer and then turn on the power of this equipment.
6. Operate the input selector of this equipment to select USB.
7. This equipment will be recognized by the computer and driver installation will start automatically.

Notes:

- Depending on the computer specifications, installation may take some time. Do not turn off both this equipment and the computer until an installation completion message appears.
- Depending on the operating system, certain settings may be required for sound to be output. Configure the settings according to the operating system usage instructions.

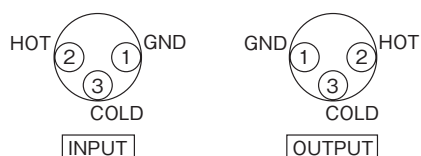
Balanced Input/Output

The XLR Connector is used for Balanced Input/Output. There are two types of connection, “European Type” and “USA Type”.

This unit adopts European Type of XLR connector. If the connecting equipment has the “USA Type” of XLR then audio signal becomes antiphase. In this case, swap pin 2 and pin 3 of XLR connector (INPUT or OUTPUT) to work same as European Type.

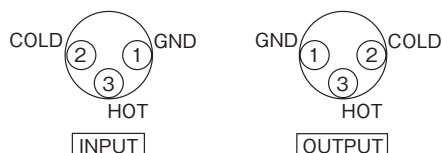
1. European Type (adapter for this unit)

(pin 2 = HOT, pin 3 = COLD)



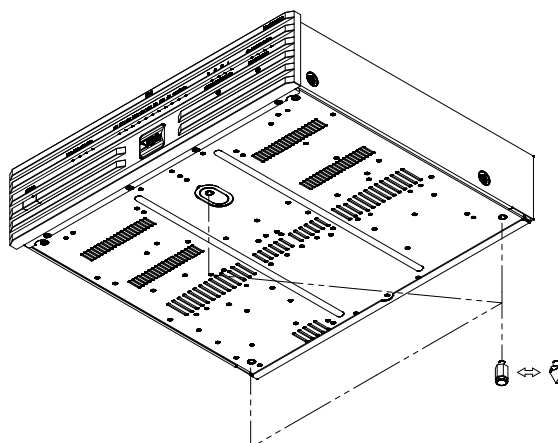
2. USA Type

(pin 2 = COLD, pin 3 = HOT)



Attaching the Spike Pins

By replacing the feet with the supplied spike pins, you can tune the audio quality. Point grounding makes the sound focus and auditory lateralization sharper. Furthermore, the audio quality can be subtly tuned by changing the material of the surface on which this unit is installed.



⚠ Cautions

- When using the spike pins, be extremely careful not to get injured, etc.
- When using the spike pins, be careful that the surface on which the main unit is installed such as the surface of a table, shelf, etc., may become damaged.

Aging

The Audio products including Speaker system need the aging in general. Especially many sensitive parts to get high quality sound are used in this unit, the aging is very important factor.

This unit is shipped with enough aging process to get best sound performance.

Troubleshooting

No sound is output.

- Check that the power of this equipment is on.
- Check that the appropriate input source is selected with the input selector.
- Check the connections of the external devices.
- Check that the power of the external devices is on.
- Check that the operations and settings on the external devices are correct.
- Check that you are not attempting to input a signal that is not supported by this equipment.

This equipment cannot be recognized by the computer.

- Check the connection with the computer.
- Check that a USB hub is not being used.
- Check that the appropriate input source is selected with the input selector.

No sound is output from the computer.

- Check that the computer settings are properly configured.
- If suspension or hibernation has been used, sound might not be output after recovery. Turn off the power of this equipment and then turn it on again.
- If an error occurs on the computer while an audio file is being played back, sound might not be output. Turn off the power of this equipment and then turn it on again.

Maintenance

When the unit has become dirty, wipe it clean using a soft cloth. To remove stubborn stains, dilute some dish-washing liquid in 5 or 6 times as much water, soak a soft cloth in the solution, wring it out well, wipe away the stains, and then wipe the surfaces dry with a dry cloth.

Never use alcohol, paint thinners, benzene, insecticides or other volatile substances since they may mar or remove the surface gloss.

Bear in mind that rubbing surfaces with a chemical cleaning cloth or leaving such a cloth in contact with a surface for an extended time may result in deterioration.

Specifications

Input format

USB PCM, DSD (DoP v1.1, ASIO)

Coaxial, AES/EBU PCM, DSD (DoP v1.1)

Supported sampling frequency

USB Max. 768 kHz for PCM,
Max. 22.6 MHz for DSD

Coaxial, AES/EBU Max. 192 kHz for PCM,
Max. 2.8 MHz for DSD64 DoP v1.1

PCM quantization bit rate

USB 16 bit, 24 bit, 32 bit

Coaxial, AES/EBU 16 bit, 24 bit

USB profile USB 2.0, USB Audio 2.0

Digital input..... USB (Type B),
2 coaxial inputs (S/PDIF), AES/EBU inputs

Analog output 1 XLR output, 1 RCA output

Frequency characteristic

..... 2 Hz to 120 kHz (+0/-1 dB)

S/N ratio..... 110 dB

Total harmonic distortion..... 0.003%

Analog filter..... Two-dimensional passive

Power voltage..... 115 V AC, 60 Hz

Power consumption..... 40 W

Maximum external dimensions

Main unit..... 430 (W) x 109 (H) x 379 (D) mm

Weight 10 kg



CSR, Inc.

<https://www.soulnote.link/>