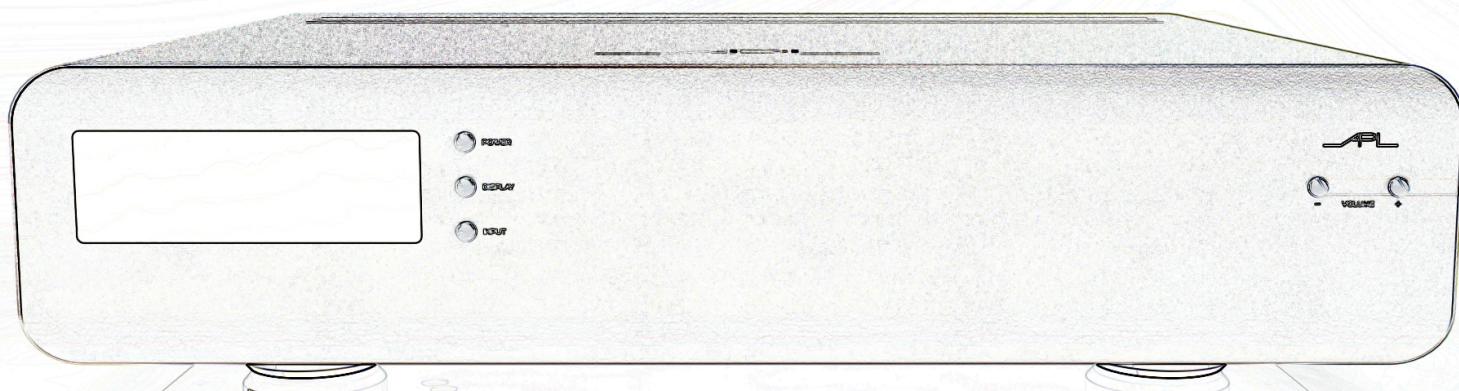




OWNER'S MANUAL



DIGITAL TO ANALOG CONVERTER

DSD-WR

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. To avoid electrical shock, do not open the cabinet. Service must be performed by qualified personnel only.

Batteries, whether installed in the component or not, shall not be exposed to excessive heat such as sunshine, fire or the like.

PRECAUTIONS

To prevent risk of fire or electric shock, do not place objects filled with liquids on the apparatus. Install this unit so the AC power cord can be unplugged from the wall socket immediately in the event that becomes necessary.



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 constitute a risk of electric shock.



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 to this component.

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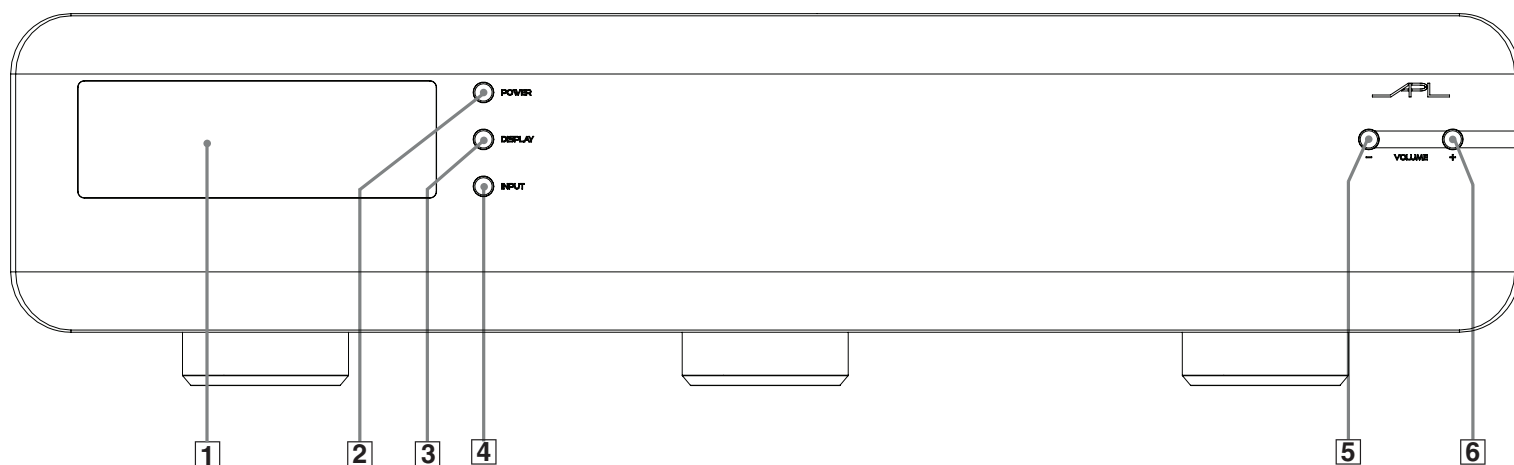
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Front panel



1 FRONT PANEL DISPLAY WINDOW

Please see description on page 7.

2 POWER BUTTON

Turns the unit ON, or sets to Standby mode.

3 DISPLAY BUTTON

Use this button to select from the four brightness levels and display OFF.
When the display is OFF, the next push of the button will result in maximum brightness for the display.

4 INPUT SELECT BUTTON

Use this button to switch the input source selection
between COAX, USB, DTR, OPT and AES/EBU.

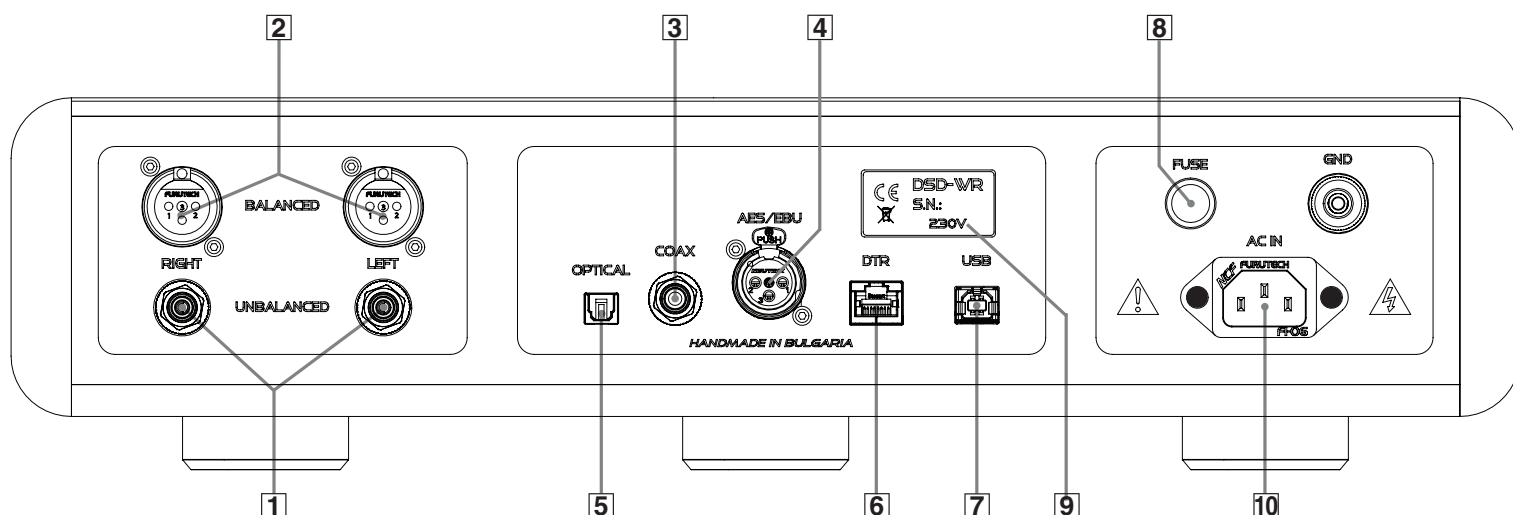
5 VOLUME DOWN BUTTON

Decreases volume in 0.5dB steps.

6 VOLUME UP BUTTON

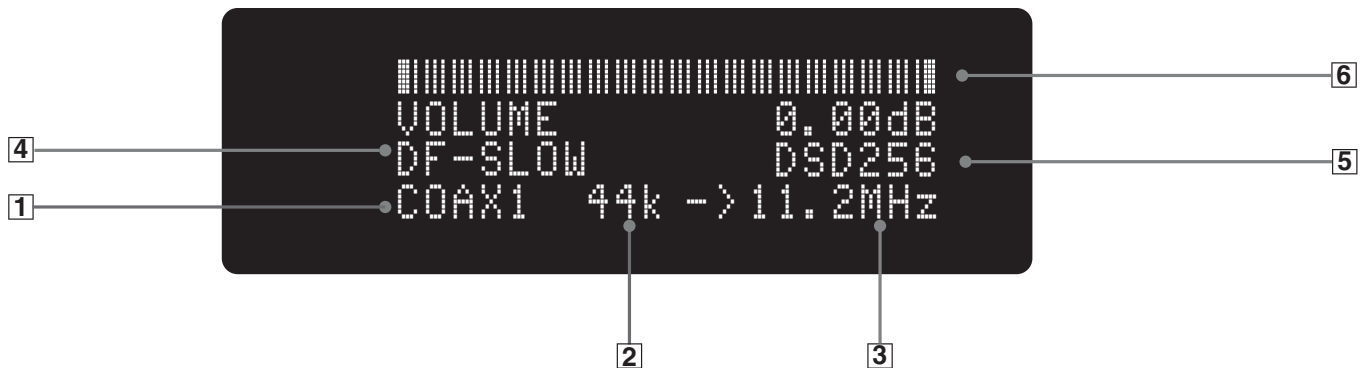
Increases volume in 0.5dB steps.

Back panel



- 1 ANALOG OUT UNBALANCED RCA L/R jacks**
Connects a component with analog input jacks, such as a preamplifier, power amplifier, etc. using an RCA audio connection cable.
- 2 ANALOG OUT BALANCED XLR L/R jacks**
Connects a component with XLR input jacks, such as a preamplifier, power amplifier, etc. using an XLR (balanced) cable .
- 3 DIGITAL IN COAXIAL jack**
Connects a component with the coaxial digital output jack, such as a CD player/transport, MD deck, computer, etc. using RCA S/PDIF digital coaxial cable.
- 4 DIGITAL IN AES/EBU jack**
Connects a component with balanced digital output jacks, such as a CD player/transport, MD deck, computer, etc. using AES/EBU digital cable.
- 5 OPTICAL IN jack**
Connects a component with the Toslink optical output jack, such as a CD player/transport, MD deck, computer, etc. using an optical digital cable.
- 6 DTR IN jacks**
Proprietary digital connection with the APL HI-FI Digital Transport or Network Streamer only.
- 7 DIGITAL IN USB jack**
Connects a computer via USB. Please see page 10.
- 8 FUSE**
Main power fuse 0.5A 250v.
- 9 VOLTAGE SIGN**
Indicates mains voltage operation, factory pre-set.
- 10 AC IN jack**
Connects the AC power cable.

Front panel display



1 DIGITAL INPUT INDICATOR

Displays the digital input source selection.

2 INPUT SAMPLING FREQUENCY INDICATOR

Displays the sampling frequency and digital format (PCM or DSD).

3 MODULATOR FINAL DSD SAMPLING FREQUENCY INDICATOR

Displays the final DSD rate, prior to D/A conversion.

4 DFILT

Displays the Digital Filter selection. Normal (sharp-rolloff), Slow (slow-rolloff) and Zero (non-oversampling). There is no Digital Filtering when processing native DSD.

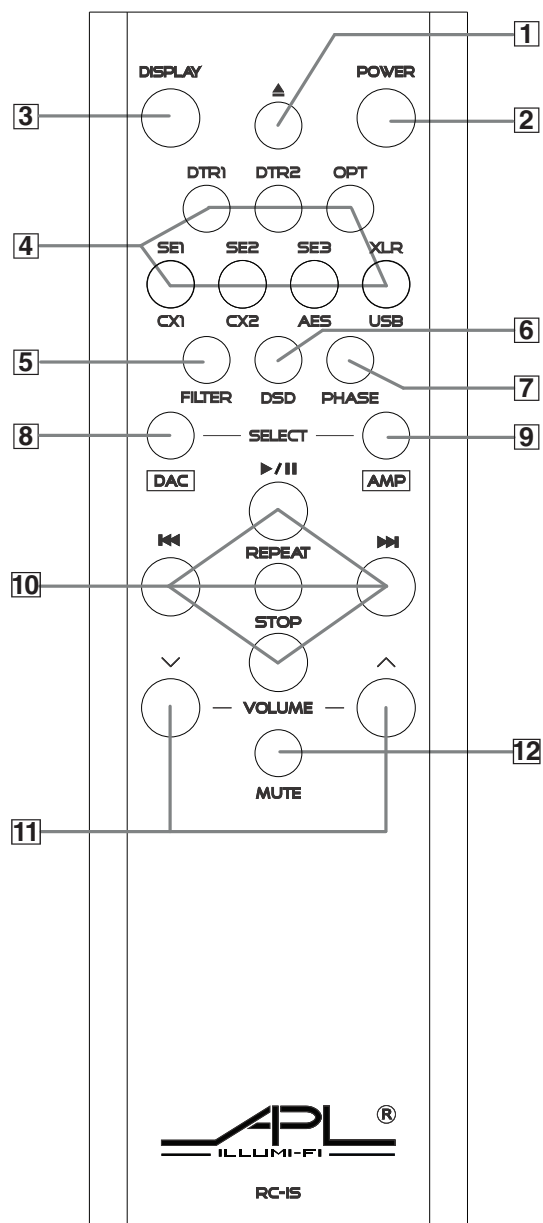
5 PCM TO DSD ENCODER INDICATOR

Displays PCM to DSD modulator rate, user selectable between DSD128 or DSD256.

6 VOLUME BAR

Displays the volume setting.

Remote control



RC-15 is the universal remote control to use with DSD-GR, HAS-UR and DTR-MR.

1 OPEN/CLOSE BUTTON

For DTR-MR digital transport.

2 POWER BUTTON

To turn the DTR-MR transport ON or OFF, press and hold the power button for 3 seconds.

3 DISPLAY DIMMER AND DISPLAY OFF MODE BUTTON

Use this button to alternate between 3 display dimming modes and OFF. The next step after display OFF is maximum brightness.

4 DIGITAL INPUT SELECT BUTTONS

Use these buttons to switch the digital input source selection: Coax1, Coax2, USB, DTR, OPT and AES/EBU for DAC. SE1, SE2, SE3 and XLR for AMP.

5 FILTER BUTTON

Toggles between Normal, Slow and Zero digital filters for DAC.

6 DSD BUTTON

Sets PCM to DSD modulator rate to DSD128 or DSD256.

7 PHASE BUTTON

Due to design topology, this button does not operate with the DSD-WR.

8 DAC SELECTION BUTTON

Always press this button to control the DAC.

9 AMP SELECTION BUTTON

Always press this button to control the AMP.

10 DIGITAL TRANSPORT CONTROL

These buttons control the DTR-MR and work independently from the AMP or DAC selection.

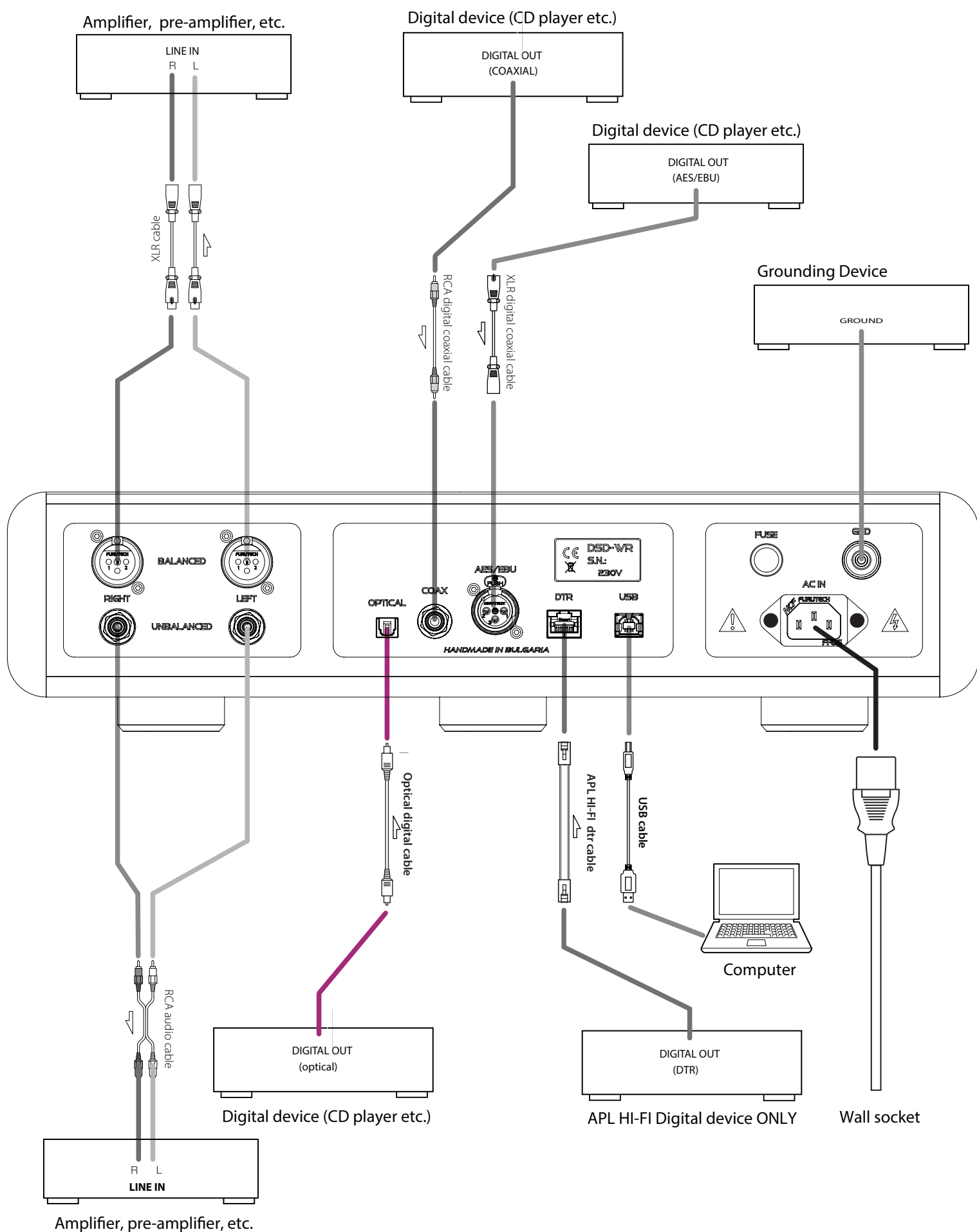
11 VOLUME UP/DOWN BUTTONS

Attenuator controls volume in 0.5dB steps.

12 MUTE BUTTON

This button works with both the AMP and DSD-WR. Press once to Mute and once more to un-Mute.

Connection



Notes on use

USB INPUT:

The DSD-WR is equipped with an XMOS based USB chipset that does not require a driver for Mac or Linux OS. However, a driver is required for Windows. Please contact us in order to obtain the Windows driver:

info@aplhifi.com

After you have received the Windows driver from us, please connect the DSD-WR to the computer via USB cable and then initiate the driver installation. Please note that, if the DSD-WR is not powered On and connected to the computer with USB cable, the driver will not install properly.

When connecting the DSD-WR to Linux based external audio renderers, please make sure that the DAC is powered On first, prior to connecting the USB cable to the audio renderer.

In other words, please always start the DSD-WR first and then the audio renderer. Please note that the DSD-WR does not use the +5V power from the USB bus coming from the computer or streamer.

DTR INPUT:

The DSD-WR features a proprietary DTR input. This input is intended for connecting APL Hi-Fi digital sources only.

FRONT DISPLAY:

It is highly recommended to use the display Off mode for best sound quality.

This mode is set by pushing the DISPLAY button on the front panel or remote.

The display will show the changes made and then shut Off again in approximately 3 seconds.

DIGITAL FILTERS SELECTION:

DSD-WR digital filters can be selected by pressing the FILTER button on the remote. That button toggles between Zero (non-oversampling), Slow (slow-rolloff) and Normal (sharp-rolloff). The digital filter selection is possible only with PCM format. The digital filters do not work for Native DSD playback.

REQUIRED BREAK-IN TIME:

It takes around 200-300 hours of break-in time for the DSD-WR to fully settle.

Please make sure to run the DSD-WR in your audio system for a minimum of 3 days, prior to any critical evaluation.

If you have any questions or concerns, please do not hesitate to contact us - info@aplhifi.com

Specifications

Digital Inputs

- S/PDIF Coaxial digital input.
- AES/EBU professional standard balanced digital input.
- Optical TOSLINK digital input.
- Note! S/PDIF and AES/EBU inputs accept up to 192kHz/24bit PCM.
- USB input accept up to 384kHz/32bit PCM, DSD64 and DSD128 in DoP format, as well as DSD64, DSD128 and DSD256 in NativeDSD format.
- Proprietary DTR input for connecting APL Hi-Fi digital sources only.

Analog Outputs

- Single Ended RCA.
- Balanced XLR.
- Output level - 2.1V RMS at 0dBFS for RCA and 2.1V+2.1V for XLR.
- Output impedance - approximately 100 Ohms, resistor limited.

Power input and fuses

- IEC power inlet.
- 115V or 230V / 50-60Hz, factory pre-set.
- Other power input voltages available on request.
- 0.5A ceramic fuse.

Dimensions and weight

- W450 x H120 x D380 millimeters.
- Front panel width - 450 millimeters.
- Height with feet included - 140 millimeters.
- Weight - 12kg unpacked.

Included Accessories

- Infrared Remote Control.
- User Manual
- Certificate of Authenticity

Warranty

Overall Warranty Information

- The DSD-WR comes with a standard 2 years parts and labor warranty coverage.
- The standard 2 years warranty can be extended to 5 years by registering your DSD-WR.

Please note! This is a non-transferable warranty. It is available only to the original owner who registered the product.

Please visit our web page and select "Register your product" on the right of the top menu.

Voiding the warranty

- The warranty sticker on the bottom is removed or damaged.
- The unit is serviced by an unauthorized person or service.
- There are signs of liquid spill damage inside the unit.
- There is a metal object causing shorts found inside the unit.
- There are damages caused by improper use.
- The electronics are damaged by over-voltage at the IEC inlet.

