



**ALLNIC AUDIO**

**D-10000 OTL/OCL  
DIGITAL TO ANALOG CONVERTER**



**OWNER'S MANUAL**

**Allnic Audio**  
**D-10000 OTL/OCL**  
**Digital to Analog Converter**

Thank you for purchasing this Allnic Audio D-10000 OTL/OCL Digital to Analog Converter (DAC). We are certain your trust in Allnic Audio and Audiomentors, as well as your appreciation for the sound of this innovative and ground-breaking device, will be rewarded by its excellent operation for many years to come.

**Please read this entire manual before you connect the D-10000 OTL/OCL DAC to the other components of your system and the wall outlet. Failure to follow the guidance in this manual may result in voiding the warranty.**

**Audiomentors (Allnic Audio marketing company)**

**415, Daeduck Plaza**  
**19-4 Sunae-dong, Bundang-gu,**  
**Seongnam-si, Gyeonggi-do,**  
**13595 S.Korea**

**Direct Telephone: 0082-31-716-3311**  
**email: [audiomentors@naver.com](mailto:audiomentors@naver.com)**  
**Website: [www.audiomentors.co.kr](http://www.audiomentors.co.kr)**

**\*\* Information and specifications for the Allnic Audio product described in this manual are subject to change without notice**

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Please read about **SAFETY** before you attempt to use the D-10000 OTL/OCL DAC - we care about our customers and the equipment, and we want you to enjoy this product for a long time!

## ALLNIC AUDIO D-10000 OTL/OCL DAC, ANALOG OUTPUT SIGNAL PATH

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**Thank you for purchasing the D-10000 OTL/OCL Digital to Analog Converter. The D-10000 OTL/OCL is a highly sophisticated but “purist” piece of audio technology. It is intended for experienced vacuum tube audio enthusiasts who understand and have the patience to appreciate the virtues of an innovative but “no bells and whistles” approach to circuit design and the superior sonic and “vintage” characteristics of New Old Stock (NOS) tubes. The D-10000 OTL/OCL is not a “plug, play and forget”, mass-market device aimed at the home audio market generally. Like all Allnic’s top-tier products, it is first and foremost a state-of-the-art example of “Tube Amp Done Right”. Proper care and attention, partnering with other equally high-quality equipment, and following the guidance provided in this manual will facilitate easy use and a listening experience of essentially unequalled quality for many, many years.**

The D-10000 OTL/OCL (Output Transformer-Less/Output Capacitor-Less) DAC has a pure triple gain stage analog signal path. It uses the 6C19P low internal resistance tube to pass the analog signal directly to line-stage or integrated amplifiers.

In common circuits, output capacitors or output transformers are required to separate the AC music signal from the DC operating potential. If this is not done, the latter will destroy the power amplifier, the loudspeakers, or both. However, these two coupling devices also introduce their own influences on the transmission of the musical signal, adding their own character (colouration), increasing distortion, and consuming small signals, all as predicted by physical efficiency theory. In addition, they also limit signal dynamics. For these reasons, the elimination of output transformers and capacitors has been considered the best solution for the design of the most accurate amplifiers. Removal of these two coupling devices from the signal path achieves the best results possible:

- No colouration of the musical signal
- Extremely detailed expression, natural harmonics and subtle musical decay
- The lowest possible distortion
- The widest musical dynamics and frequency range

In the D-10000, there is no coupling device between the DAC and the preamplifier; that is, the final gain/output tubes are directly connected to the preamplifier. Thus, the benefits listed above are fully present in the Allnic D-10000 OTL/OCL.

Some circuit experts might be concerned about DC potential in the music signal in an OTL/OCL design. However, the chance of this problem occurring can be essentially and reliably 100% mitigated. To do this, Allnic uses a “floating power supply circuit”, a design that deals with the issue by not creating any DC potential in the first place, or such a small potential that it is harmless.

The D-10000’s OTL/OCL circuit is basically SEPP, “Single-Ended, Push-Pull”, so a “cancellation circuit” is required to adjust the balance of signal between the upper and lower power output tubes’ input grids. Allnic uses an extremely sophisticated “Active Balanced Positive and Negative Feedback Circuit”, in which the 7258 pentode perfectly controls the circuit’s operation with extremely low distortion and incredible speed.

The D-10000 OTL/OCL is a world-class, reference level, DAC. It offers unbelievably realistic, holographic sound-staging combined with incredible resolution, clarity, micro-dynamics, and drive. Instrument and vocal tones and timbres are breathtakingly lifelike, and the placement of instruments and bodies in three dimensions startling, life-size, and addictive. The D-10000 OTL/OCL has no voice of its own, none. It is silent, except for the music emanating from the blackest of backgrounds. In addition, the stunningly realistic sonic quality is matched by the simple elegance, flexibility, and ergonomic functionality of the D-10000 OTL/OCL’s casework and connection options. The D-10000 OTL/OCL is truly a masterpiece and is Allnic Audio’s top DAC.

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## **WAVERSA SYSTEMS CUSTOM DIGITAL PROCESSING**

With a digital section designed by Dr. C. Shin, principal of WAVERSA SYSTEMS and an expert in high-resolution digital and digital to analog design for both military and commercial applications, the D-10000 OTL/OCL DAC is unique in the marketplace. Except for the DAC chip it employs, the ES9018K2M SABRE 32 Reference DAC (“Sabre DAC”), none of the D-10000 OTL/OCL DAC’s digital components are sourced from the audio supply market. In addition, the USB interface and SPDIF receiver are specifically customized for use in the D-10000 OTL/OCL, and custom-built high end up-samplers are utilized for user selectable DSD conversion and PCM up-sampling.

The D-10000 OTL/OCL offers the listener the flexibility to select listening directly to:

- the source drive’s audio signal at its native sampling rate, or down-sampled if that signal is above the limits of the D-10000 OTL/OCL’s digital inputs of 192 KHz (up to 384 KHz and DSD 128 on the USB input) so long as the source is of sufficiently high quality – see “Operation”;
- a PCM signal from the source drive converted to DSD 128 in “real time”; or
- a PCM signal up-sampled from the source drive’s native rate by a custom up-sampling chip.

The ES9018K2M SABRE 32 Reference DAC is a high performance 32-bit, 2-channel audio D/A converter with sampling to 32/384 KHz, DSD 128 and a 1.5 MHz up-sampler using a field programmable gate array ("FPGA") USB interface. In the D-10000 OTL/OCL, however, the Sabre DAC chip is used for digital to analog conversion only; all audio signal processing is performed by a Waversa Systems custom designed processing chip set.

The D-10000 OTL/OCL converts PCM to DSD in real-time when CONV ("Conversion") is selected using the D-10000 OTL/OCL's chassis face or remote control. When conversion to DSD is selected, all PCM input samples are converted to 128 DSD via a custom built internal 5.6 MHz up-sampler and FPGA DSD converter.

The D-10000 OTL/OCL up-samples PCM when UPSAMPLE is selected using the D-10000 OTL/OCL's chassis face or remote control. When up-sampling is selected, all PCM input samples are up-sampled using Waversa Systems' custom built 1.5 MHz audio signal processing chip, which also then down-samples to the selected sampling rate prior to sending to the Sabre DAC for digital to analog conversion.

The USB interface is implemented through network player hardware by Waversa Systems and is UAC2 standard compliant. This provides an extremely clean digital audio signal through complete galvanic isolation, which strips the digital signal of any PC noise commonly created by a server's internal power supply. Firmware updates and music data are also communicated through the single provided USB input. This is accomplished by a special interface, again unique to Waversa Systems.

Data under-run or over-run and, therefore, distortion can occur when a source's word clock and a DAC's internal word clock are not synchronized absolutely. When an external clock is used, potential errors caused by data under-run or over-run inside a DAC can be eliminated. The D-10000 OTL/OCL provides connections for an external word clock. In addition, it is planned to update the D-10000 OTL/OCL's current high-end internal word clock implementation to an even more highly advanced mode in the next update phase.

It is also intended to provide an I2S input in the near future. This separate system will be connected to the D-10000 OTL/OCL DAC by a proprietary method through the AES port. The I2S system will provide not only PCM but also DSD and have the capability to support extreme up-sampling and cross conversion between DSD and PCM. Details will be published at a future date.

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## WHAT'S IN THE BOX?

Please check that the shipping box contains the following:

- One (1) Allnic D-10000 OTL/OCL DAC – in natural aluminum or black, depending on your order specification
- One (1) Apple remote control
- One (1) Owner's Manual
- One (1) Hex/Allen key

### Note:

- 1) The D-10000 OTL/OCL DAC ships with the tubes installed.
- 2) The D-10000 OTL/OCL will work with most 15 Amp IEC type aftermarket power cords. Allnic's ZL-3000, ZL-5000 and ZL-8000 power cables will work exceptionally well with the D-10000 OTL/OCL DAC. Of course, only you can determine the power cord that works most synergistically with the D-10000 OTL/OCL in your system.
- 3) **Be sure the D-10000 OTL/OCL DAC is labeled for the AC voltage of your location. If it is not, do not connect it to the AC outlet and please contact your Allnic Dealer.**

We advise that you keep the box and other packing materials that your D-10000 OTL/OCL DAC came in. They will be useful if you sell your D-10000 OTL/OCL, or in the unlikely event you need to ship the unit for service.

## SAFETY!!

- **Remove all protective cushioning material (cardboard/styrofoam around the tubes), if any, inside the tube chimneys before operation. The tube chimneys should contain NOTHING except the tubes** (It is optional to leave the "O" rings, if any, on the small tubes; some prefer the sound with the O rings on).
- **DO NOT leave the D-10000 OTL/OCL turned on for extended periods of time – NEVER 24/7, even for (an unnecessary) "break-in" period. This will greatly increase the likelihood of premature tube and/or internal failures. Power on the unit and let it warm up for some minutes; then, when finished a listening session, do a complete power off.**
- Disconnect the power cord by pulling the plug, not the cable.
- Keep the power cord away from any heat source.
- Keep the unit away from liquids – do not allow any liquid to enter the interior of the unit.
- When the unit is moved from a cold to a warm environment, allow sufficient time for any condensation to evaporate before plugging the unit into an AC connection.
- Do not attempt any repairs.
- Do not remove the chassis cover without specific authorization from your Allnic dealer.
- See the notes on "Location, Location, Location".

## CLEANING

### A. Chassis

Use only a soft, lint-free cloth dampened slightly with water only (NO cleaning fluids!) to clean the faceplate and chassis of the D-10000 OTL/OCL DAC.

### B. Connectors

You may use any good quality contact cleaner recommended for such applications to clean the contacts from time to time, as you deem appropriate.

## INITIAL SET-UP

### A. LOCATION, LOCATION, LOCATION

Like all audio products using tubes, the Allnic Audio D-10000 OTL/OCL needs to be placed on a solid base that is not subject to vibration or sudden shock, and that provides good air circulation around, above and below the unit.

- **DO NOT cover the top of the D-10000 OTL/OCL or the tube chimneys. Make sure the unit is in a place with good ventilation. The D-10000 requires at least 100mm (~ 4 inches) clearance for good air flow above it.**
- DO NOT drop the unit! For those who may want to place the D-10000 OTL/OCL on some kind of aftermarket isolation feet or similar devices, dropping one side of D-10000 OTL/OCL, or the whole unit may result in damage to the unit or tubes that will not be covered by warranty.
- DO NOT place the unit near a strong light or heat.
- DO NOT place anything heavy on the unit.
- DO NOT allow rubber or vinyl materials to rest on the unit's chassis for long periods of time. This could discolour the metal.
- DO place the unit on a shelf or stand that is stable and not subject to vibration or sudden shock.
- DO consider using a high-quality power cord, as well as inter-connects for both inputs and outputs. The D-10000 OTL/OCL is a highly sensitive piece of electronic designed for neutrality and will output what you put into it. **Allnic's Zero Loss Technology power cables and MU metal shielded interconnects will work synergistically with the L-10000 OTL/OCL.**
- DO try to place the D-10000 OTL/OCL well away from major sources of RFI and EMI; though well shielded, the D-10000 OTL/OCL will function best away from large power transformers and other sources of such interference.

### B. POWER CONNECTION

The D-10000 OTL/OCL DAC uses a standard three prong North American 15 Amp male IEC connection for AC input on the right hand (facing the rear) of the rear panel of the unit's chassis. You need a power cord with a female 15 Amp North American three prong IEC connector at one end (See Figure 1). The Allnic ZL-3000, ZL-5000 and ZL-8000 power cables will make an excellent match. Of course,



only you can determine the power cord that works most synergistically with the L-10000 OTL/OCL in your system. **Please note that use of a three phase AC power source or an AC regenerating power conditioner may cause hum.**

The D-10000 OTL/OCL will be set internally for your location's electrical system characteristics. Please check the setting for electrical input on the label on the rear of the unit to confirm that your D-10000 OTL/OCL matches your location's electrical system. **Be sure the D-10000 OTL/OCL DAC is labeled for the AC voltage of your location. If it is not, do not connect it to the AC outlet and please contact your Allnic Dealer.** The D-10000 OTL/OCL is set internally for AC 110/120 volt – 50/60 Hz or 230/240V – 50/60 Hz operation. There is no way to change to another AC setting.

### C. INPUTS

The D-10000 OTL/OCL DAC has the following inputs (See Figure 1):

- One optical ("Toslink") digital
- One USB (Type B)
- One AES/EBU digital
- Two (2) coaxial digital (RCA)

The optical, AES/EBU and coaxial inputs support up to 192KHz.

The USB input supports:

- DSD 64, DSD 128 (via DoP)
- PCM 44.1 KHz, 48 KHz, 88.2 KHz, 96 KHz, 176.4 KHz, 192 KHz, 352.8 and 384 KHz.

The inputs may all be connected at the same time. To select the input you want to play, rotate the knob on the right of the D-10000 OTL/OCL's front panel clockwise and counter-clockwise (See Figure 2), or use the appropriate part of the remote control (See the section "The Remote Control" below).

The D-10000 OTL/OCL utilizes a non-PLL digital receiver for lower noise. To avoid introduction of noise and/or connectivity issues, the user should be sure to use high quality digital sources and cables that meet applicable standards for the selected input (e.g., AES/EBU, S/PDIF).

### D. OUTPUTS

The D-10000 OTL/OCL is equipped with one pair of unbalanced or "single-ended" (RCA) outputs and one pair of true balanced (XLR) output connections. Each output pair is oriented horizontally. **WHEN FACING THE REAR OF THE DAC** (See Figure 1), the:

- XLR and RCA output connections are to the left of the IEC power connection;
- each RCA (unbalanced) connector is to the left of the XLR (balanced) connector for that channel; and
- the left channel output connectors are to the right of the right channel connectors.

The left channel output connectors are labeled “L”, and the right channel output connectors are labeled “R”.

You may have both balanced and unbalanced outputs connected at the same time without introducing hum.

## **E. EXTERNAL CLOCK CONNECTION**

The D-10000 OTL/OCL is equipped with BNC type in and out reference word clock connectors for use with an external clock (See Figure 1).

## **INITIAL POWER-ON**

**Only when you have your D-10000 OTL/OCL DAC in place, connected it to the electrical source, and all connections have been properly mapped and securely made to your digital sources and preamplifier, are you are ready to turn on the power for your D-10000 OTL/OCL.**

### **Before you power up the D-10000 OTL/OCL, be sure you have:**

- checked that all your connections are properly mapped and secured
- selected the output connections that you want to use, single ended (RCA) or balanced (XLR), on the switch on the back of the DAC
- turned the volume down or muted your preamplifier

To turn on the D-10000 OTL/OCL, push in the button marked “power” on the left side of the D-10000 OT/OCL’s front panel near the left balance meter. Push the button in again to power down the D-10000 OTL/OCL.

## **OPERATION**

When the D-10000 OTL/OCL DAC is powered on, the balance meters on the left and right of the front panel will illuminate (See Figure 2). **IMPORTANT: Read about the balance meters in “The Balance Meters” section below.** When the D-10000 OTL/OCL is connected to a powered-on source and the appropriate input for that source is selected, the LED in the top centre of the front panel, labeled “Link”, will illuminate. **Note:** In some cases, the “Link” LED might not illuminate until signal is passing from the source.

**Drivers are not required for Mac/Linux and Windows 10 and up operating systems.** For earlier Windows versions there is a compatible driver that specifically recognizes the D-10000 OTL/OCL DAC available for download from the Allnic Audio website at this link: <https://allnicaudio.com/wp-content/uploads/2022/03/XMOS-Stereo-USB-Audio-Class2-Driver-3010-v2.19.0.zip> The Thesycon driver is also compatible for Windows applications and is available on-line.

Please note that the digital inputs and the customized S/PDIF receiver accommodate rates up to 192 KHz (so long as the source is of sufficiently high quality). However, because it utilizes a non-PLL digital receiver for lower noise, users may find occasionally that some signals over 96 KHz may be problematic, particularly with the optical/Toslink input. Users may mitigate this problem with appropriate down-sampling at the source.

From this point on, operation is straight-forward. All functions can be accessed from the front panel. The button “in” position makes the selected function “active”, and the associated LED/LEDs will illuminate. The button “out” position means the function is inactive; the associated LEDs will not be illuminated. The desired input is selected by rotating the knob on the right of the D-10000 OTL/OCL’s front panel clockwise and counter-clockwise, or by using the appropriate part of the remote control (See the section “The Remote Control” below).

### **DSD Playback and “CONV” (Conversion to DSD)**

In the case of playback of a native DSD signal from the source, the D-10000 OTL/OCL employs DSD over PCM (“DoP”). The user should set up the source software to output for the DoP standard. The D-10000 OTL/OCL will play DSD 64 and 128 files. Anything above that will need to be down-sampled before sending to the D-10000. Because the D-10000 OTL/OCL DAC employs DoP, when playing DSD 64 or DSD 128 files the DSD LED indicator will not illuminate (*unless “CONV” is engaged*). Instead, the LED indicator for one or the other of the 88/96 or 176/192 sample rates will illuminate, indicating the DSD rate. The 88/96 indicator means the input signal is DSD 64, and the 176/192 indicator means the input signal is DSD 128.

The button labelled “CONV” is used to implement real-time conversion to DSD. When CONV (conversion to DSD) is engaged, all native PCM input samples are converted to 128 DSD. When the “CONV” mode is engaged, in addition to the LED indicator for CONV, the DSD LED and the sample rate LED for the source rate will illuminate. *This will occur even when playing a DSD file; however, in that case, no conversion is occurring.* You may notice that gain in the CONV mode differs slightly from that in the source input sample rate and UPSAMPLE mode. This is normal and is compensated for by adjusting your volume control.

**NOTE:** The user cannot control the up-sample rate for conversion to DSD; the D-10000 OTL/OCL’s conversion to DSD and “UPSAMPLE” functions are discrete processes.

Also, please note again that *the DSD indicator light illuminates only when “CONV” is engaged* but has two meanings in that mode. It indicates either that conversion of a PCM file to DSD is occurring OR that the D-10000 OTL/OCL is playing a native DSD signal from the source (as noted above, no conversion is occurring in CONV mode when playing a native DSD 64 or 128 file).

### **PCM Playback and UPSAMPLE**

When the D-10000 OTL/OCL is playing a PCM signal from source, the appropriate LED indicator for the source sample rate will illuminate.

Please note, as previously mentioned, that some high sample rate PCM signals (96 KHz and higher) may carry background white noise in addition to the audio; this is because many freely distributed high resolution PCM files are generated using either a software or hardware up-sampler that is not of sufficiently high quality. In such cases, it is recommended that, if possible, the source software or device be used to down-sample the noise burdened files prior to sending to the D-10000 OTL/OCL.

Please also note that while the D-10000 OTL/OCL filters incoming low quality SPDIF interface signals, some source devices in the market do not meet S/PDIF standard or are otherwise of insufficient quality and can be noisy.

The button labelled “UPSAMPLE” is used to select the desired up-sampling rate. Repeated presses of the UPSAMPLE button move the unit through the available up-sampling rates as indicated on the front panel. Because the D-10000 OTL/OCL DAC uses DoP for DSD playback, the UPSAMPLE function can be used with native DSD 64 and 128 source files (but not in conjunction with the “CONV” function).

Of course, BE CAREFUL about differences in gain between your sources. Generally, DACs and digital disc players (and tuners) will have greater gain than phono-stages. That means the volume setting for listening to your turntable might be too high for listening to a digital source through the D-10000.

When you are finished listening, turn off your power amplifier(s); then turn off your preamplifier and then turn off your sources last, including the D-10000 OTL/OCL by pushing in the button labelled “power” located on the left of the front panel.

**NOTE:** While the D-10000 OTL/OCL DAC is run in and tested at the factory, users have reported that the sound improves steadily through the first two to three hundred hours of use.

In the case of any failure, please contact your Allnic dealer for assistance.

## THE REMOTE CONTROL

The remote control allows remote operation of all the functions on the front panel of the D-10000 OTL/OCL. It does not support the on/off function, however. The remote control provided is a standard Apple product. All functions controllable by the remote are manipulated by using the large button at the top of the remote control, which is surrounded by a black ring with a white dot at its top and bottom and left and right sides.

The DAC functions are selected as follows (See Figure 3, below):

- Pressing the upper part of the black main button ring selects the various inputs from right to left on the face of the unit
- Pressing the lower part of the black main button ring selects the various inputs from left to right on the face of the unit
- Pressing the right side of the black main button ring toggles CONV, conversion to DSD, on and off, i.e., between conversion to DSD and a source’s incoming sample rate, or one of the up-sampling rates (the latter only if you were previously in up-sampling)

- Pressing the silver central “enter” button toggles UPSAMPLE on and off and when on, cycles through the various up-sampling rates

The remote control’s “left” side of the black main button ring, the “Menu” and the “Play/Pause” buttons have no functions for the D-10000 OTL/OCL DAC.

If you are using an Apple device as a source or controller, or have any other Apple device nearby, it may also respond to the D-10000 remote control. If you need to use an Apple device at the same time as you are using the D-10000 OTL/OCL and cannot move your Apple device out of range of the D-10000 remote control, you should be able to disable the remote control sensor of the Apple device in the device’s System Preferences. Instructions for doing this are available on-line.

## THE BALANCE METERS

The illuminated meters on the D-10000 OTL/OCL’s front panel indicate the DC balance status of the 6C19P output tubes for each channel. The needles of both meters should be in approximately the same position between the two lines in the center of each meter. It is unnecessary for the needles to be precisely centered or in exactly the same positions. On first power up of the D-10000 OTL/OCL over the initial hours as the NOS tubes settle after shipping, there may be meter needle drift. This drifting will stop once the tubes have some hours of use; however, once settled, the meters may require balancing. Note: after any power on, it may take some minutes for the meters to settle. Do not rush to rebalance.

If balancing must be done, use a small, flat-bladed screwdriver to adjust the potentiometers. The potentiometers are plastic, slotted buttons recessed in the two small holes located on the top panel between the two 6C19P output tubes for each channel (see Figure 4). Please be gentle and patient. The potentiometers have a limited range of turning, and when they reach their limit, they will resist. **DO NOT in any circumstances try to turn a potentiometer past its point of resistance in either direction; doing so will damage the potentiometer and void the warranty.**

If a meter will not balance, please contact your Allnic dealer for assistance.

## TUBES

There is a set of four (4) tubes for each channel, with the right and left channels each arranged in a row from front to rear (see Figure 4). The D-10000 OTL/OCL uses the following tubes:

- Two (2) x 7258 (the tubes closest to the front of the DAC – one per channel)
- Two (2) x 12AU7 (the tubes second from the front, i.e., between the 7258 and 6C19P tubes – one per channel)
- Four (4) x 6C19P (the four tubes closest to the rear of the DAC – two per channel)

## TROUBLESHOOTING TUBES

If your D-10000 OTL/OCL loses audio output completely on a channel or reduced audio output on a channel, it could indicate tube failure. If you have access to a properly functioning tube tester that can test the D-10000’s tubes, you can use it to determine which tube(s) failed, **always POWERING OFF and disconnecting the D-10000 from the AC source before removing a tube.** If

you do not have access to an appropriate tube tester, you can identify the failed tube(s) for replacement by following the procedures below.

If audio output is completely lost on a channel but the balance meters are not affected, it could mean failure of a 7258 or 12AU7 tube.

- First, **POWER OFF and disconnect the D-10000 from the AC source**; then swap the left and right channel 7258s. Power on the D-10000 again. If there is no change, repeat the process with the 12AU7 tubes, being sure to POWER OFF the D-10000 before removing a tube. In either case, if swapping the tubes restores output on the affected channel, replace the failed tube with a new tube to restore operation.

If your D-10000 exhibits reduced or lost audio output on a channel and the needles of both balance meters drop to the bottom left or right and will not return to balance on powering off/on., it could indicate failure of a 6C19P tube or tubes.

- First, **POWER OFF and disconnect the D-10000 from the AC source** and replace one 6C19P tube at a time with a good 6C19P until you find the 6C19P(s) that failed. Remember to **POWER OFF and disconnect the D-10000 from the AC source** each time you are going to change a tube. When the balance meter needles move up from the left, you have identified the failed 6C19P tube(s). Replace the tube(s) with a new one. You will likely need to rebalance the meters following the instructions in the “DC Balance Meters” section above.

If the mains fuse has failed, **POWER OFF and disconnect the D-10000 from the AC source** and replace it with the spare in the IEC mount or first with a good, inexpensive one of the same rating to avoid risk if you are using a more costly aftermarket fuse.

*As experienced users of vacuum tube equipment know, any tube can be carefully machine tested and selected and re-tested under real use conditions at the factory but still fail early. Because of their age, vintage tubes can be especially fragile and more prone to fail prematurely in use despite intensive testing. Included tubes are guaranteed for the time and per the conditions in the Warranty section below. It may take shipping time, however, to transport replacements to you. As many experienced users do, you may want to acquire at your own cost and risk a set of back-up replacement tubes to have on hand for immediate use “just in case”.*

Allnic Audio and its authorized representatives make no representations nor any warranty regarding the quality of tubes obtained from third parties and are not responsible for any issues or losses relating thereto. All consequences of changing or attempting to change tubes are borne by the user unless by express agreement between the owner and the owner’s Allnic dealer. Allnic Audio and its authorized representatives are not liable in any way whatsoever for any damage to the D-10000 OTL/OCL or any injury or loss incurred by the user resulting from the user changing or attempting to change tubes.

## SPECIFICATIONS FOR THE ALLNIC AUDIO D-10000 OTL/OCL DAC

### Inputs:

- One (1) X optical ("Toslink") digital
- One (1) X USB
- One (1) X AES/EBU digital (XLR)
- Two (2) X coaxial digital (RCA)

### Outputs:

- One (1) pair X unbalanced (RCA)
- One (1) pair X balanced (XLR)

### Output Frequency Range:

- 20Hz - 20KHz flat

### Output RMS Voltage:

- 1.6 or 4 volts, per customer choice upon ordering

### Output Impedance:

- 50  $\Omega$  (Constant)

### Total Harmonic Distortion (THD):

- Less than 0.1%

### Signal to Noise (S/N) Ratio:

- - 86db (CCIR, 1KHz)

### Power Consumption:

- 70W at 230 V / 110/120 V / 50 / 60 Hz

- **Tubes:**

- Two (2) x 7258 (No equivalent)
- Two (2) x 12AU7 (Equivalent to ECC82, E82CC, 5814, 6189, CV4003)
- Four (4) x 6C19P (Equivalent to 6S19P, 6C19Pi, 6C19-n)

### Fuse:

- AC 5A, 250V, 5x20mm Slow-Blow for 110/120 volt regions  
AC 3A, 250V, 5x20mm Slow-Blow for 230/240 volt regions

**SPECIFICATION CHANGE: Notwithstanding what may be printed above the IEC inlet, the correct rating for the mains fuse is 5A 250V 5x20mm Slow-Blow for 110/120V regions and 3A 250V 5x20mm Slow-Blow for 230/240V regions.**

**Dimensions:**

- 430mm (16.93 inches) x 320mm (12.5 inches) x 170mm (6.7 inches) (W x D x H)

**Weight:**

- 13.06 Kg (28 lbs.) unpacked; 17 Kg (37.4 lbs.) in original packing



## **WARRANTY**

***FOR WARRANTY SERVICE, PLEASE CONTACT YOUR AUTHORIZED ALLNIC DEALER.***

Except for the tubes, this Allnic Audio product is warranted against materials and manufacturing defects only for two (2) years from date of purchase. The tubes in this product are warranted against materials and manufacturing defects only for six (6) months from date of purchase. Date of purchase is the date indicated on the invoice issued by Allnic Audio or its authorized representative for original purchase of the new product. The warranty does not cover any damage occurring during product shipment at any time, nor any damage occurring as a result of any of this product's owner's or owners' negligence or willful mistreatment. Failure to operate or care for this product in accordance with instructions in this manual will be deemed negligent. For the warranty to be valid, this product must be returned first to Allnic Audio's authorized representative for warranty service prior to any unauthorized attempt to repair or modify it. Any repair done to or modification of this Allnic Audio product at any time performed without specific authorization from Allnic Audio or its authorized representative will void the warranty. Allnic Audio and its authorized representatives shall be the sole determiners of whether the warranty has been voided. Provided that the warranty has not been voided, the warranty is transferable for the balance of the original purchaser's warranty period.

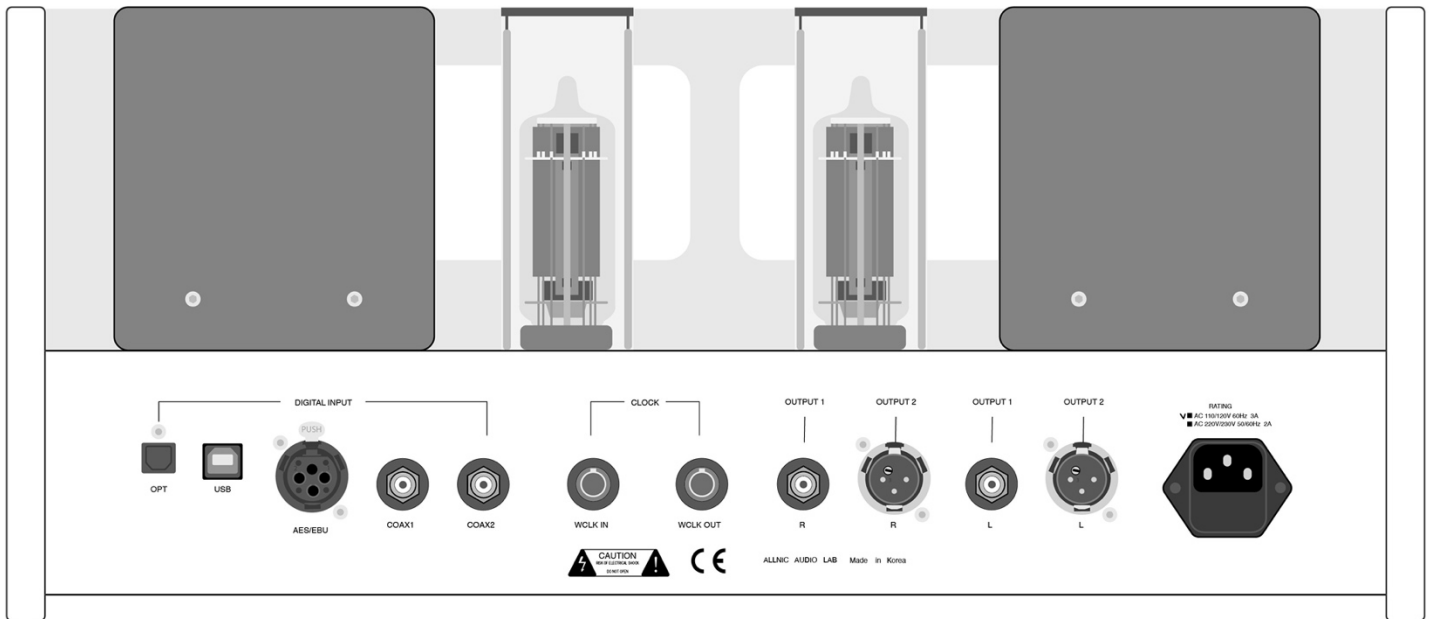
The warranty covers parts and labour only. If required for warranty service, shipping of this product to and return to product owner from an authorized Allnic representative will be at product owner's sole cost. In the case of required factory warranty service, shipping to Korea shall be at product owner's sole cost. Provided that Allnic has determined that the warranty is not void, Allnic will pay the cost of return shipping to product owner. If Allnic determines that the warranty is void, return shipping to product owner will be at product owner's sole cost.

After expiry of the applicable warranty period or if the warranty is void, Allnic Audio and its authorized representatives are not responsible for nor obligated in any manner whatsoever to undertake, or to cover or reimburse the costs of any repairs or modifications to this product.

The warranty does not cover and Allnic Audio and its authorized representatives are not responsible for any incidental costs or damages to the person or property of original purchaser, any subsequent owner of this product, or any third party occurring as a result of any malfunction or misuse of this product however and whenever caused.

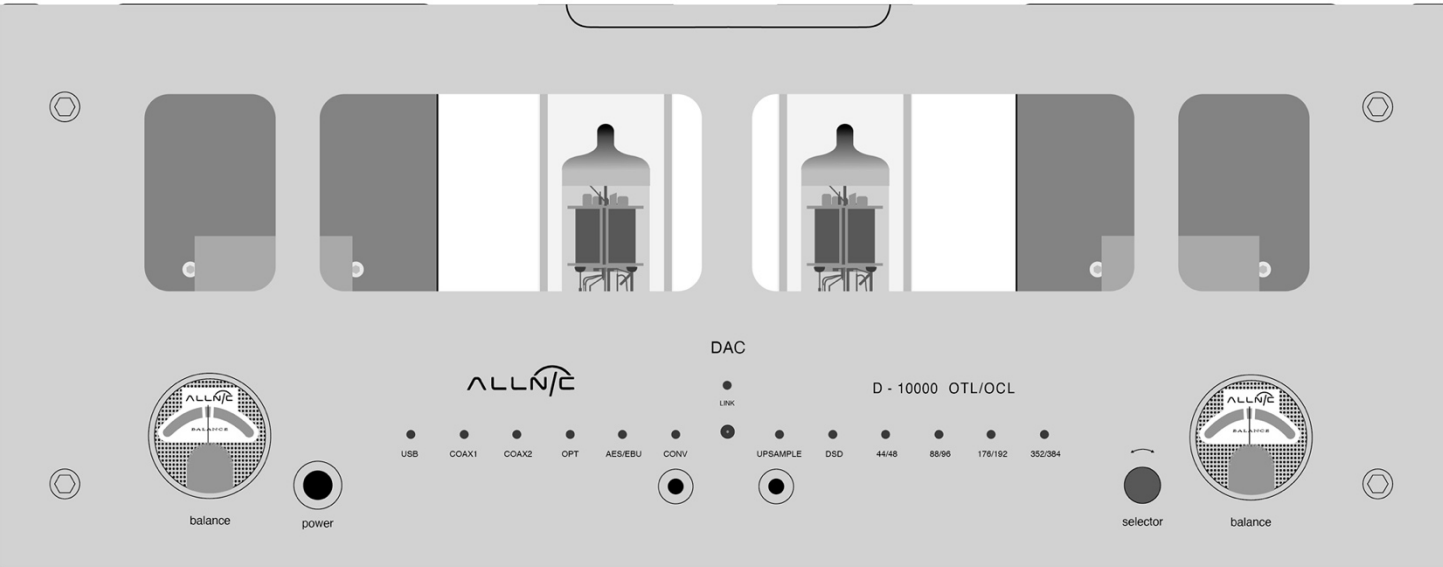
## FIGURES

Figure 1: Rear View

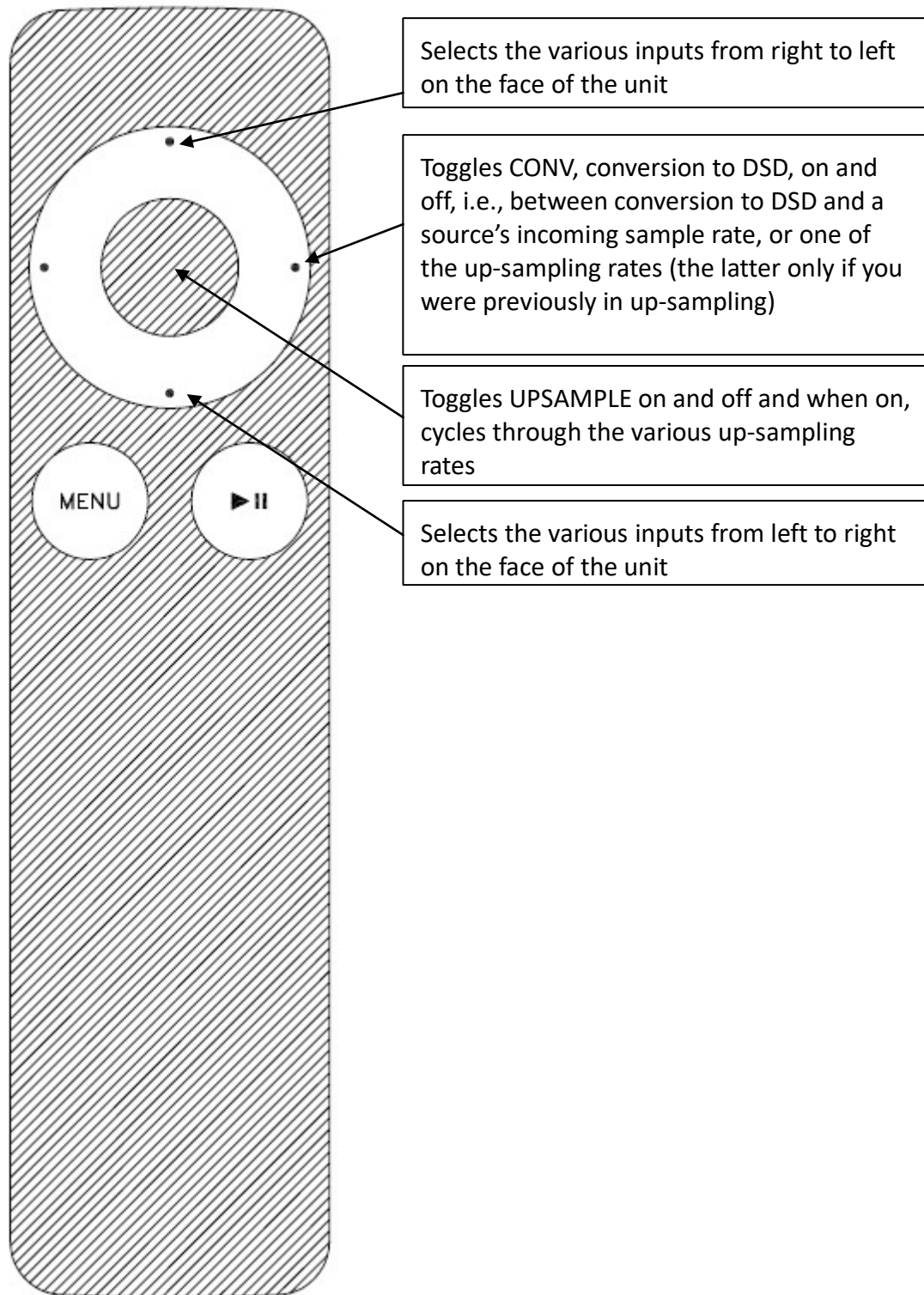


**SPECIFICATION CHANGE:** Notwithstanding what may be printed above the IEC inlet, the correct rating for the mains fuse is 5A 250V 5x20mm Slow-Blow for 110/120V regions and 3A 250V 5x20mm Slow-Blow for 230/240V regions.

Figure 2: Front View



### Figure 3: Remote Control



# Figure 4: Top View

