





Manual

"Musik ist höhere Offenbarung als alle Weisheit und Philosophie."

"Music is revelation of a higher order than wisdom and philosophy."

"La musique est une révélation plus haute que toute sagesse et toute philosophie."

Ludwig van Beethoven



Thank You

for purchasing a product from GTE Audio.

TRINITY® DAC sets new standards so that discerning music aficionados can finally enjoy their most beautiful recordings as if it were the true-to-life original. DAC supports all 2-channel audio standards from 44.1 kHz/16 bit to 192 kHz/24 bit. No longer do you need a signal-driven preamplifier thanks to the integrated volume control and source selection.

Enjoy pure sound reproduction with our product.

Sincerely Yours
GTE Audio Team

Contents

Safety Instructions	1
Scope of Supply	2
Transportation and Cleaning	3
Selecting the Power Voltage	3
Connecting and Starting	3
Wiring Diagram	4
Wiring Up.....	5
The Controller	6
Operation	7
Power On/Off.....	7
Adjusting the Volume.....	7
Selecting the Input	7
Selecting the Digital Filter.....	7
Selecting the Polarity.....	7
Displaying the Sampling Frequency.....	7
Left DAC Module	8
Right DAC Module.....	8
Remote Control	9
Volume.....	9
Selecting the Input	9
Digital Filter.....	10
Appendix	11
Connectors	11
Warranty.....	12
Support.....	13

Safety Instructions

1. Please read this operating manual carefully and observe all the instructions affixed to the appliance or written in this manual.
2. Install this product on a stable surface and make sure that nobody can trip over the cables.
3. This product should only be connected to a power source indicated on the product. If you are unsure what power source you have in your region, please contact your local power utility.
4. Never operate this product near water or with wet hands. If the product comes in contact with liquids, immediately disconnect it from the power source.
5. To exclude the risk of an electric shock, please never expose the product to the rain or other source of liquid.
6. In thunderstorms, do not install the product or put it into operation.
7. Never attempt to open the appliance or repair it yourself. If you open or remove the enclosure, you may expose parts that are subjected to dangerous levels of voltage. Any unauthorized opening of the appliance will cause the warranty claim to become null and void.
8. Do not allow children to play with electrical appliances without adult supervision. Children do not always recognize the possible risks and consequences.

Scope of Supply

The scope of supply comprises:

- Central control unit with integrated power supply, volume control, source and filter selectors
- DAC module for left channel
- DAC module for right channel
- Ferrite-sheathed and shielded power cord
- Two multiple-pole connecting cables to connect the DAC modules to the controller
- Two 110 ohm cables with an internal terminating resistor of 110 ohms
- TRINITY DAC manual
- TRINITY DAC brochure
- TRINITY DAC test reports
- Remote control and charger
- Gloves
- Cleaning cloth
- 2 x flight cases, total weight approx. 90 kg)

Transportation and Cleaning

Please only transport the parts listed in the scope of supply in the supplied flight case and use the supplied cotton gloves when unpacking and installing the appliances to avoid scratching the enclosures.

Clean the surfaces using the supplied microfiber cloth: immerse the cloth in lukewarm water containing no detergents and then carefully wipe the surface when the cloth is almost dry.



Never use chemical or aggressive detergents.

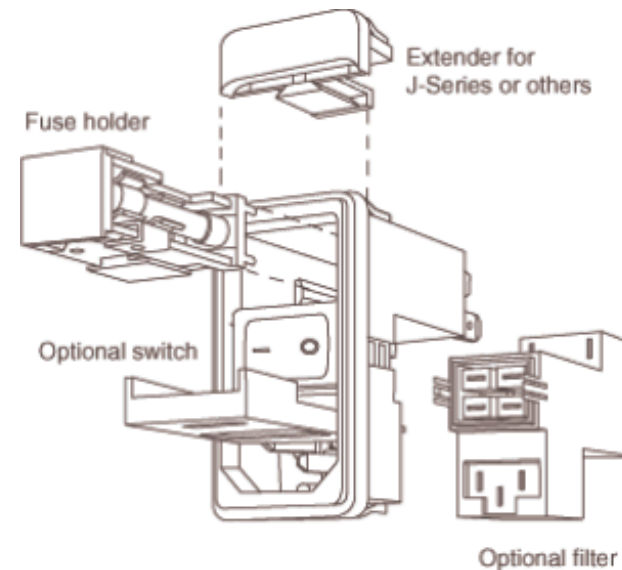
Selecting the Power Voltage

The power input module allows you to select between two input voltages: 115 volts and 230 volts. The two fuses on the primary side are also fitted to the power input module.



Please only use fuses of the same type if you need to change them.

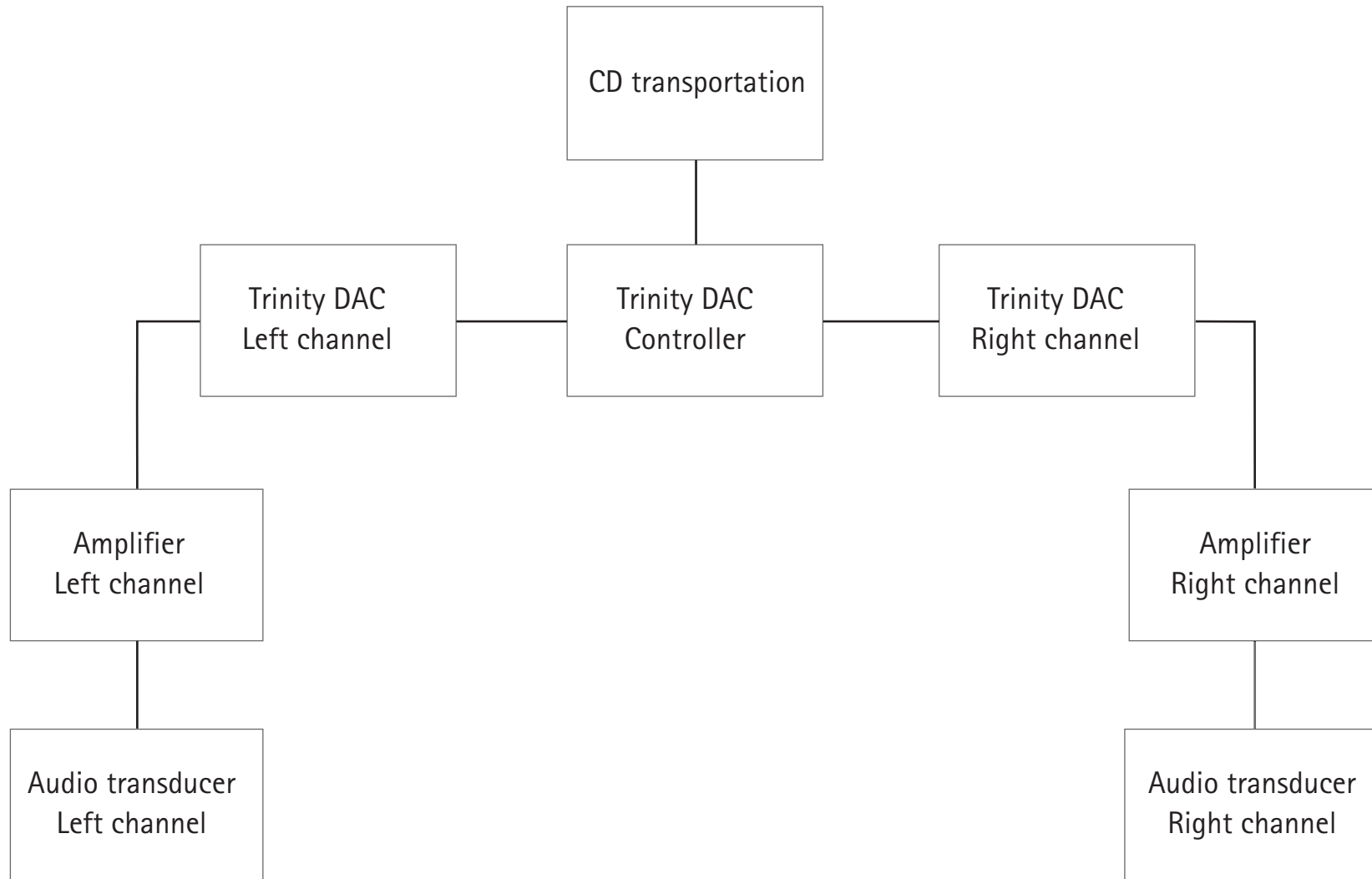
1. Before putting into operation the first time, please remember to check the power input selection. If you are in doubt, please contact your local power utility.
2. Unplug the power plug from the power input module. Open the lid of the fuse holder and position the fuse holder so that the selected voltage is identical with the power voltage for your region.



Connecting and Starting

To install the modules, select a stable, level surface directly next to the output stage so that the connecting cable to the output stage is as short as possible. Avoid placing the appliance in direct sunlight and never place the modules directly next to radiators or fan heaters. Protect all supplied parts from humidity and moisture. Only wire up the components when the controller is switched off.

Wiring diagram



Wiring Up

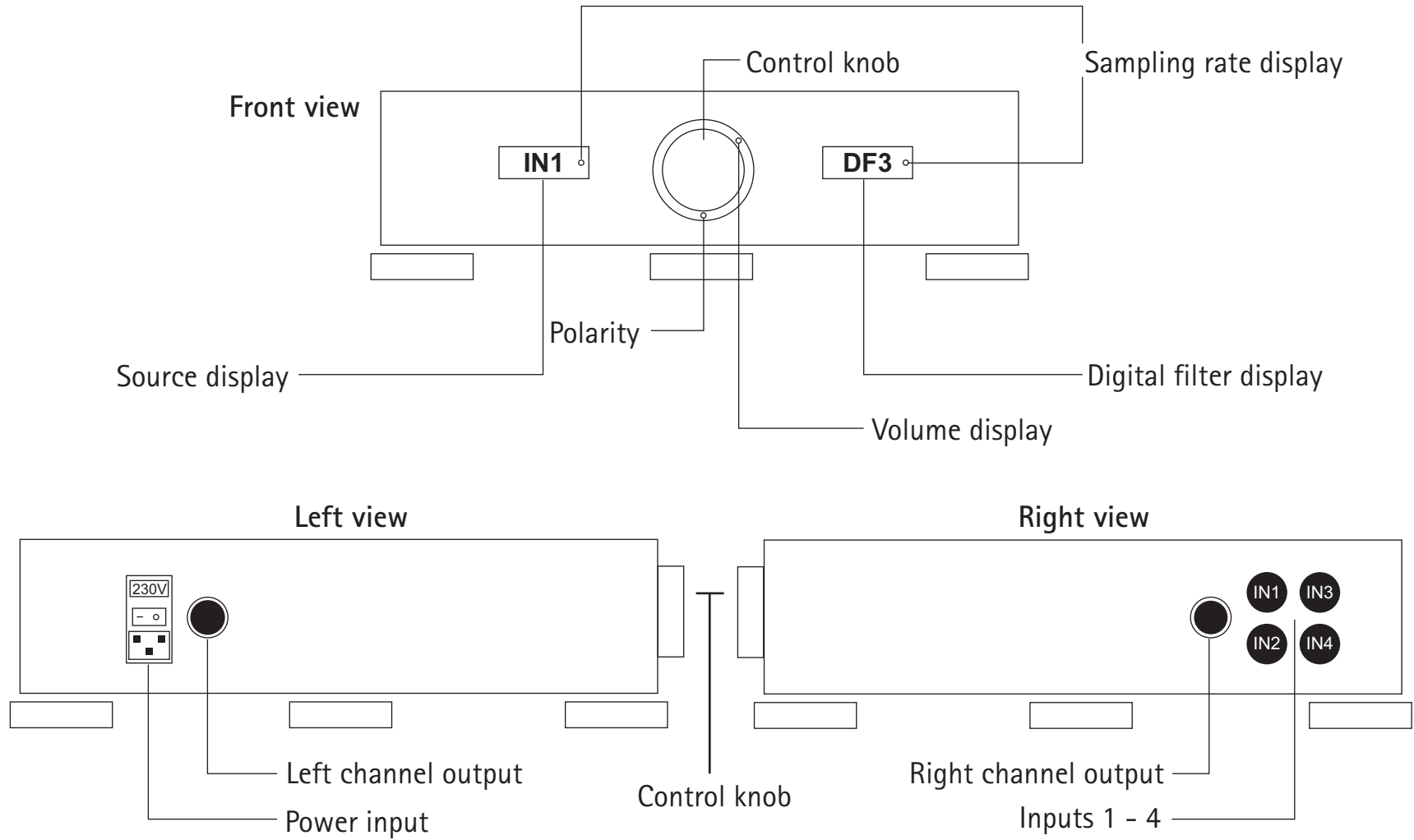
1. Disconnect the controller from the power source. Never disconnect any wires unless the controller is switched off.
2. Connect the controller to the two DAC modules. The multiple-pole cables are terminated with special connectors that have a special locking mechanism that ensures a reliable hold. See Appendix.
3. Connect the digital inputs (IN 1- IN 4) to the digital outputs of your CD or DVD player.
4. Connect the DAC modules to your output stage. Use the 110 ohm output in preference. Use the supplied 110 ohm cable supplied for this 110 ohm output. It is terminated with a 110 ohm resistor .



If you want to use your own 110 ohm cable, you should terminate it with an additional 110 ohm resistor to obtain the best possible sound.

Never use this output as a single-ended output since the two active pins are not tied to ground. An additional output is provided for this application and it is isolated galvanically from the remaining electronic circuitry by an audio output transformer. The required adapter for this is available on request. This output can also be used as a normal balanced studio output.

The Controller



Operation

Power On/Off

Switch the appliance on using the power switch on the power input module. The displays on the front of the appliance show the selected digital input and digital filter. The ring-shaped display indicates the volume setting. Another LED under the rotary knob shows the polarity selected. Switch the appliance off using the power switch on the power input module. After a short interval, the displays fade slowly to dark. The last settings remain stored.

Adjusting the Volume

Turn the knob to the right or left to change the volume of the DAC modules.

Selecting the Input

Press the knob and simultaneously turn to the left to select one of the four inputs (sources) IN1 to IN4. IN5 is for dual mono mode. For dual mono mode, connect the input signals to the inputs IN3 (left channel) and IN4 (right channel). If you do not require dual mono mode, it can be switched off internally at the factory.

Selecting the Digital Filter

Press the knob and simultaneously turn to the right to select one of the three digital filters DF1 to DF3. In dual mono mode (IN5), DF0 is selected automatically and this setting is not changeable. DF0 stands for no digital filter in the signal path. The digital signal runs straight to the digital/analog converter.

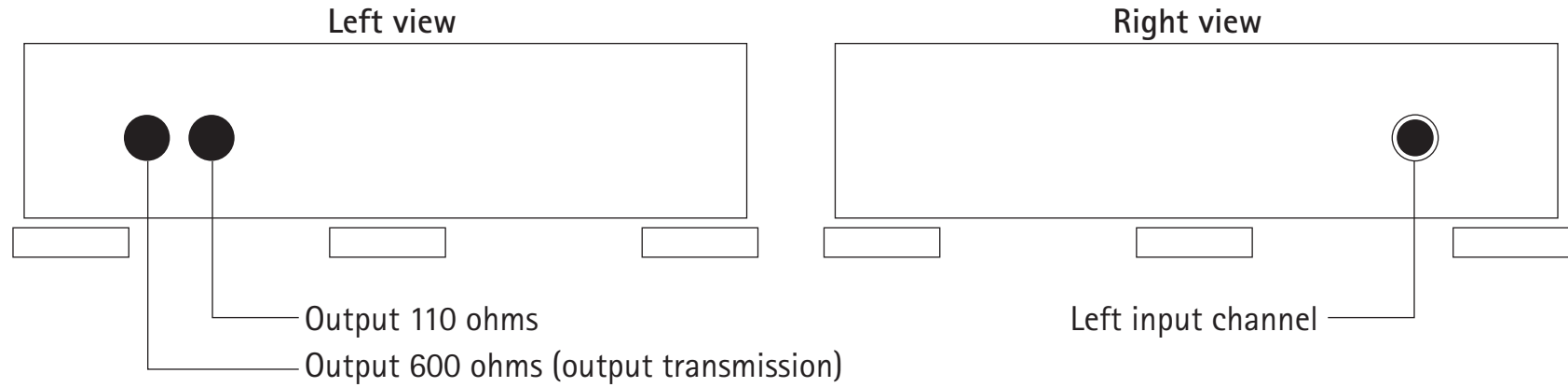
Selecting the Polarity

Press for a while on the control knob (for about 20 s) to change the polarity of the output signal. When the associated display lights up, the output signal is inverted. When the LED under the control knob lights up, the output signal is inverted. Press the knob again to change the polarity back.

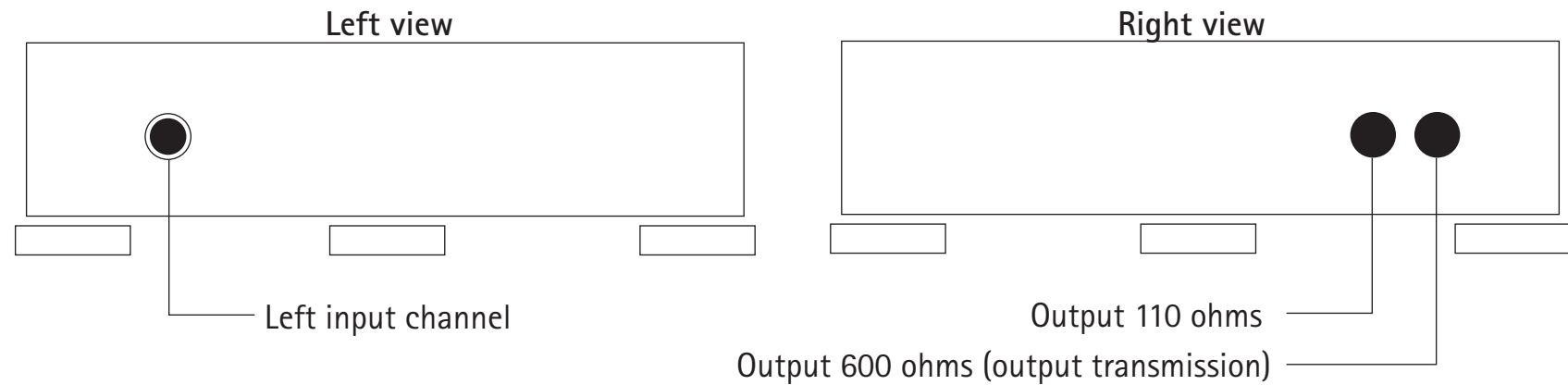
Sampling frequency display

An additional LED is fitted next to the input and digital filter displays. They light up when the input signal has a sampling rate greater than 88.2 kHz.

Left DAC modul



Right DAC modul



Remote Control

The remote control lets you control the volume, select the input (source) and select the digital filter.



You can only change the polarity on the controller. The polarity of the D/A converter must be identical with that of the amplifier. In case of doubt, please ask your amplifier manufacturer or your dealer.

Volume

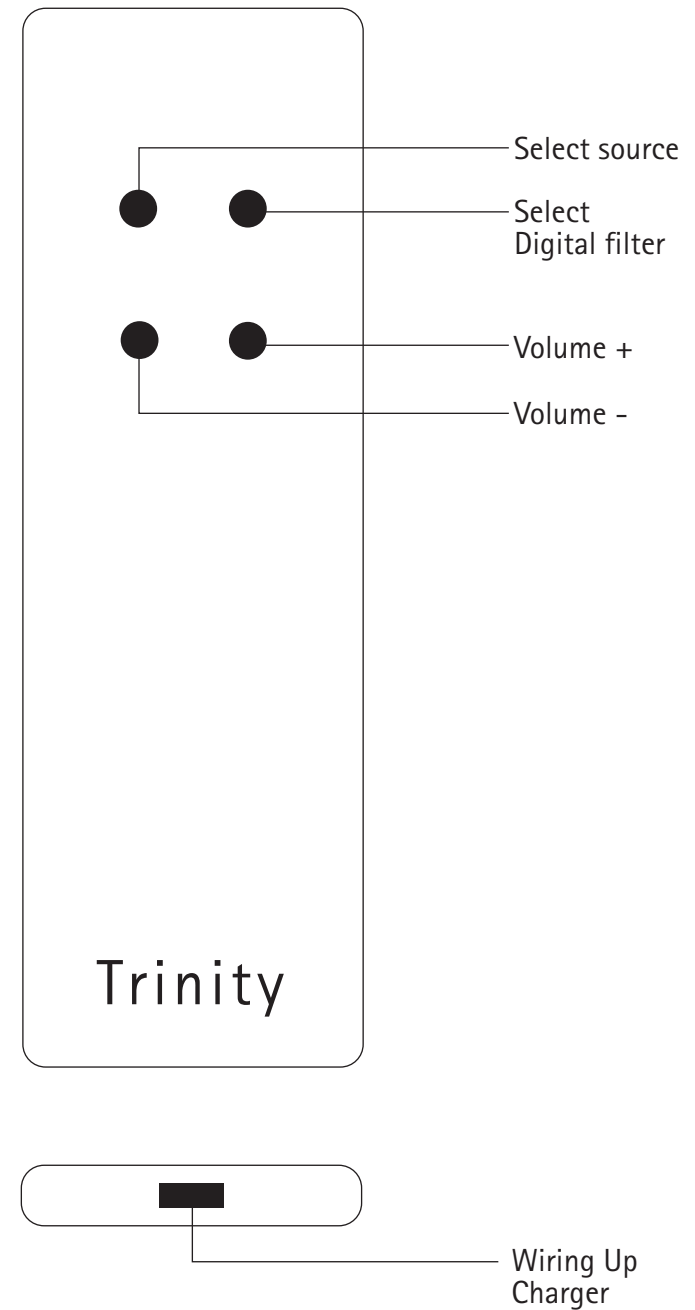
Control in 48 division of 2 dB

Selecting the Input

Inputs	IN1	IN2	IN3	IN4	IN5
Sampling rate	24bit /96 kHz	24bit /96 kHz	24bit /96 kHz	24bit /96 kHz	2x24bit/96kHz Dual mono
Selectable Digital filter	DF1, DF 2 DF 3	DF1, DF 2 DF 3	DF1, DF 2 DF 3	DF1, DF 2 DF 3	DF0 no Digital filter
Input socket	Input 1	Input 2	Input 3	Input 4	Input 3 for left channel,Input 4 for right channel
Selectable Input connector	XLR, RCA,BNC ST, TOS-Link	XLR, RCA,BNC ST, TOS-Link	XLR, RCA,BNC ST, TOS-Link	XLR, RCA,BNC ST, TOS-Link	XLR, RCA,BNC ST, TOS-Link

Digital Filter

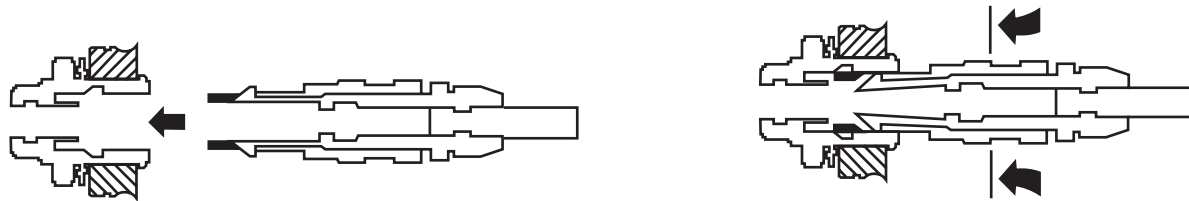
DF1	high fidelity 24 bit / 96 kHz
DF2	frequency response-optimized 24 bit / 96 kHz / sharp rolloff
DF3	pulse-optimized 24 bit / 96 kHz / slow rolloff
DF0	no digital filter 24 bit / 192 kHz / Dual mono



Appendix

Connectors

Insert the push-pull lock.



Simply push the connector lengthwise into the socket.

Release the push-pull lock.



If the connection is switched, it cannot be interrupted by unplugging the cable.
To release the connection, the outer cover of the connector must be pulled back.

Warranty

The warranty period of the Trinity DAC is 5 years.

Within the warranty period, any material and production defects will be rectified according to the following conditions:

1. The warranty period begins with the purchase of the product and only applies to first buyers.
2. A warranty claim is only valid if defects originating from material or manufacturing defects occur, but not as the result of natural wear and tear. In case of justified claims that occur during the warranty time, we will either repair the affected component free of charge or replace it at our discretion. In so doing, we are entitled to also supply a successor model in the interests of technical progress. Any further claims, in particular compensation damage of any nature, are excluded.
3. The warranty period is not extended by any work performed during the warranty period, neither for replaced nor repaired components.
4. Any improper handling or interventions by persons not authorized by GTE Audio will render the warranty claim null and void. This also applies to damage arising from improper connection or use.
5. The warranty excludes transportation damage that must be claimed immediately from the forwarding agency (railway, post, carrier). Any scratches on the enclosure or other visible defects must be reported to the dealer within 3 days.
6. The provisions of the German product liability law and comparable foreign regulations remain unaffected, provided they are inalienable. We retain the right to make technical changes in the interests of technical progress.

Support

If you have any questions relating to installation, operation or expansion options, we will be pleased to answer them.

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