

## ENGLISH

Dear Audiophile,

Congratulations and thank you for choosing the BELLINI Anniversary preamplifier.

Audio Analogue is proud to introduce you the new born. It has been designed by the Airtech R&D and uses proprietary Airtech technologies.

### Features

- Inductive power supply to reduce any AC disturb to the line stage
- No global feedback connection from the input to the output
- Fully differential circuit design
- Digital volume control doesn't make use of operational amplifiers
- Relay input selector circuits to minimize non linearities
- Military grade oversized "through hole" resistors to minimize thermal induced distortion
- Audio Grade capacitors
- Native differential input
- 3 Stereo RCA Inputs
- 2 Stereo Balanced Inputs
- 2 Stereo RCA outputs
- 2 Stereo XLR outputs
- Microcontroller based equipment management.
- Airtech internal wiring and power cord
- High-quality gold plated connectors

## INTRODUCTION

AF GROUP SRL, owner and manufacturer of AUDIO ANALOGUE brand does not take any responsibility in the following cases:

Whenever the operational procedures related to the use and the maintenance of the equipment as described in this manual are not respected.

Whenever damage to the equipment occurs because of repairs and modifications made from non-authorized staff or because of normal deterioration of the system.

No part of this manual can be reproduced by any means, transmitted or copied for private or public use without private authorization from AF Group S.R.L.

The information contained in this manual is related to the data kept by AF Group S.R.L at the time of publication; AF Group S.R.L has the right to make changes to this document without prior notice.

The equipment has been projected and manufactured according to the Regulations of the Community 89/336/CEE and is marked CE.

This equipment cannot be used for different purposes other than those for which it has been manufactured.

AF Group S.R.L does not take any responsibility for accidents or damage due to improper use of the equipment.

## WARNING

Please respect the safety standards contained in this manual before starting to operate the equipment.

Do not open the equipment. No further interventions than those described in this manual should be made.

For technical assistance, please consult a qualified technician or an AUDIO ANALOGUE dealer.

Not respecting the instructions contained in this manual will invalidate the terms and conditions of the guarantee.

## NECESSARY PRECAUTIONS FOR SAFETY AND MAINTENANCE

**ATTENTION:** before starting any operation, using or maintaining the equipment, it is strictly necessary to understand the following manual.

To avoid any accidents or hazards it is necessary to follow the following regulations.

Activate the equipment only prior to checking that the installation has been done properly, and conforms to the instructions contained in this manual.

Avoid installing the equipment in places subjected to extremely high temperatures or humidity.

Check that the labels containing information about safety are always visible and in good condition.

Ensure not to obstruct ventilation and to avoid excessive overheating. The equipment should be kept to a minimal distance of 15 cm from any object and not to be placed on carpet or other soft surfaces. Also installation close to radiators or in closed spaces without ventilation should be avoided.

Do not switch on the equipment until it has been correctly and completely installed.

Only supply the equipment with the kind of the electric supply as stated on the appropriate label. If in doubt about the kind of supply available, please consult an expert technician for technical assistance.

The equipment needs to be wired to an earth terminal. The external case is made of metal; a defective connection with the earth may be dangerous.

In case damage occurs to the supply cable, it should be replaced immediately with the same kind of cable.

This operation should be only made prior to disconnecting the main supply.

Do not place objects on the supply cable and check that this is not positioned lying across a walk way. The cable should not be knotted or curly.

Always replace the fuses with others of the same type.

Do not use the equipment close to water or other liquids. If liquid enters the equipment, the plug should be disconnected from the socket avoiding any contact with the metal parts. Competent technical staff should be asked to check the equipment before operating it again.

Do not place receptacles containing liquid on the equipment, even when it is switched off.

Keep the equipment far from sources of heat such as solar light, kitchens, radiators etc...

Always unplug the supply cable during rainy weather.

Always switch off and unplug the supply cable before cleaning the equipment externally: this operation should be made using a dry and soft cloth. Never use alcohol based cleaning material.

If the amplifier was carried from an extremely cold environment to and extremely hot one, it could create internal condensation, causing possible malfunction.

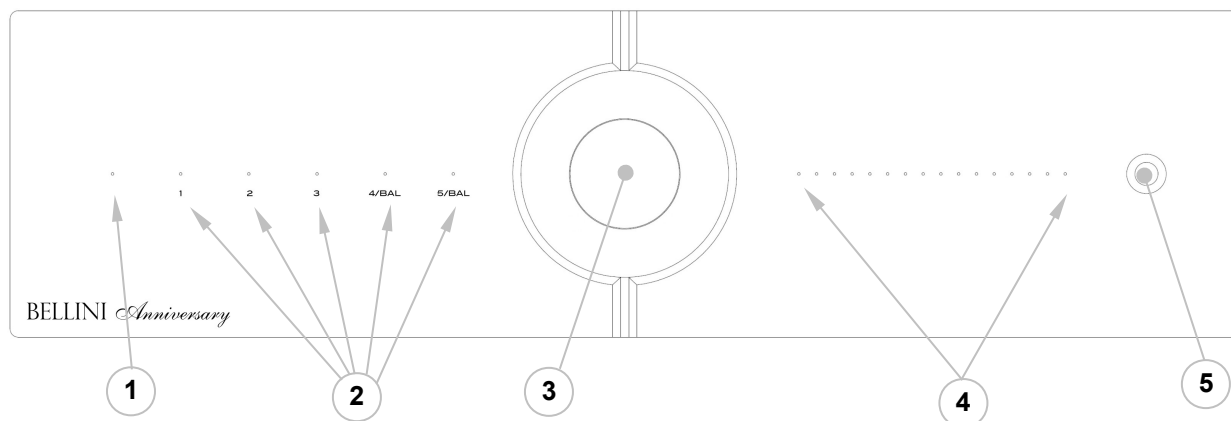
If this occurs, please wait for at least an hour before using it again, to allow it to gradually reach room temperature.

When not used for long periods, please unplug the equipment.

## INSTRUCTIONS TO PUT IT OUT OF SERVICE

Consult qualified staff

Follow the regulations of the current legislation regarding recycling and waste disposal.

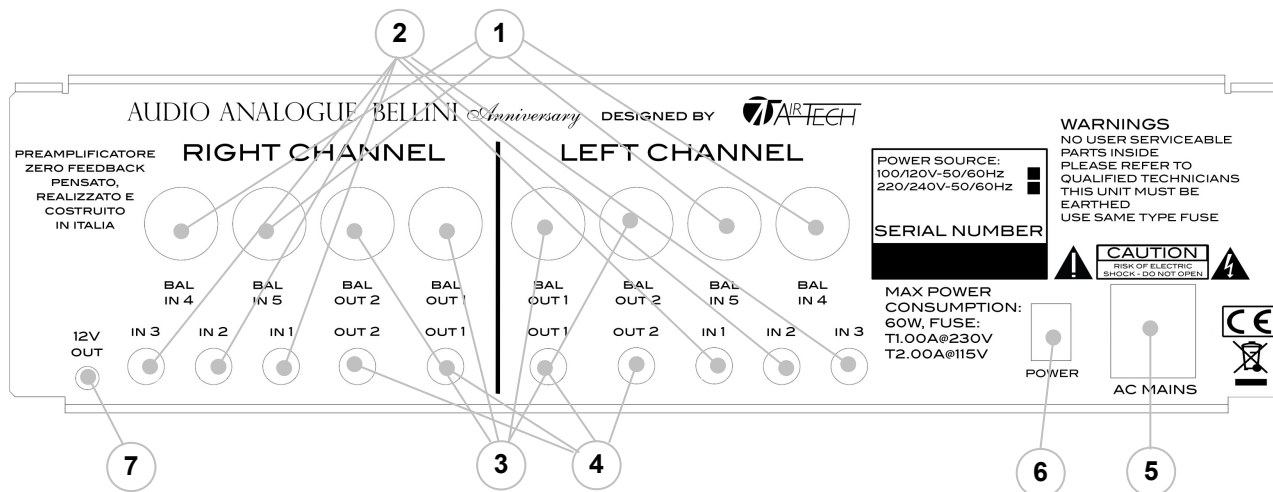


### Front panel

- 1 Standby LED (Red light indicates standby, off when the preamplifier is working).
- 2 Active input indicator.
- 3 ON/OFF (short push to power ON, 5 seconds push to power OFF), Volume Control (rotate) and input selection (3 seconds push to change, change is at the button release)
- 4 Volume level indicator
- 5 IR receiver.

### Notes:

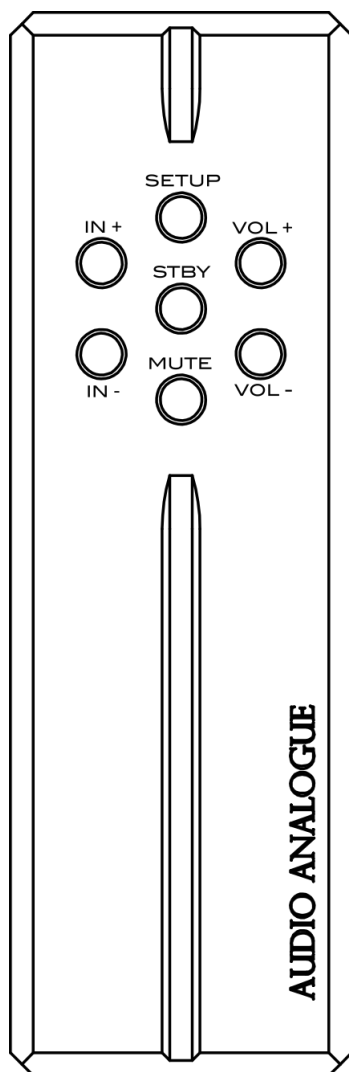
- When a procedure to configure the unit is performed the knob and the leds are used in different ways, please see the relevant paragraph for more details.
- In case the equipment is close to certain television sets or lighting systems, is known that malfunction can arise from such systems to the IR transmission.



### Back panel

- 1 Balanced Inputs (See Note on Balanced Input).
- 2 RCA inputs
- 3 Balanced Outputs(See Note on Balanced Output)
- 4 RCA outputs
- 5 IEC standard power inlet and fuses. Connect here the provided power cord. If necessary, replace the fuses with others of the same kind and value (see back panel for details).
- 6 Main power switch.
- 7 Trigger Output to power on Donizetti Power Amplifier(check notes on trigger output)

## Remote controller description



- **STBY** : Turn ON and OFF the preamplifier
- **SETUP** : used for special functions, see further
- **MUTE** : activates/de-activates the mute function
- **IN+** : changes the selected source (increase)
- **IN-** : changes the selected source (decrease)
- **VOL+** : increases the volume of the unit
- **VOL-** : decreases the volume of the unit

**Note:** Please replace the remote control batteries in case the commands are not correctly received.

### Unpacking and checking BELLINI Anniversary preamplifier package

Carefully open the package to avoid damaging the content. The package should contain:

- 1 BELLINI Anniversary preamplifier
- 1 remote controller RC10000
- 1 power cord
- 1 trigger cable
- 2 AAA batteries(already included in the remote control)
- 1 instruction manual and warranty card

If one of the items listed above is missing, please contact your Audio Analogue retailer. After extracting the smaller items from the package, pull out the unit carefully. Separate the package from the anti-shock expanded-foam protection.

### Where to place the BELLINI Anniversary preamplifier

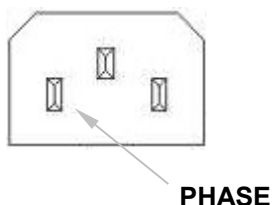
The BELLINI Anniversary preamplifier is a complex unit that may generate heat. Please locate the unit in a well-ventilated place. In particular, **leave at least 30 cm around and above the unit and avoid placing it close to heat sources (radiators, heaters, preamplifiers, television sets).**

### Plugging in and connecting the BELLINI Anniversary preamplifier

Before connecting the BELLINI Anniversary preamplifier to a sound source, please be sure that they're both unplugged from wall outlets. First of all, connect the source's outputs to the BELLINI Anniversary preamplifier inputs you want to use. Please use only high-quality cables. When this is done, connect the BELLINI Anniversary preamplifier outputs power amplifier. At last, after checking that the power button is in the OFF position, plug the power cord into the BELLINI Anniversary preamplifier inlet and into the wall outlet.

### Notes on correct connection of the phase

Phase pin is in the left position as shown in below image. Supplied power cord has phase pin indicated on the plug to connect to the power network, make sure to find the right position using a phase detector screwdriver and if you replace the power cord, make sure to respect the right phase connection.



### Powering up the BELLINI Anniversary preamplifier

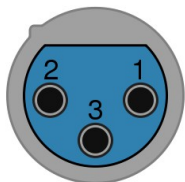
First of all put the switch on the rear to ON. The standby LED on the front must turn red. Push the central knob briefly or press the "STBY" button on the remote control. The BELLINI Anniversary will begin the start sequence and you will see the four leds behind the knob start switching-on for 4 seconds and after that the led corresponding to the selected input will be ON. If after pushing the button nothing happens, please refer to the troubleshooting section of the present manual. Note: it's good practice to turn on the preamplifier before the power amplifier and to shut it off after the power amplifier. Using the Donizetti power amplifier connected with its trigger cable make this sequence automatic. The trigger signal is proprietary so the Bellini Anniversary trigger output must be connected only to the Donizetti Anniversary power amp trigger input.

### Notes on balanced inputs

The balanced inputs accept balanced signal according to the standard XLR pinout as reported in the picture below. To avoid creating ground loop between the preamplifier and the source (which can cause hum problems) use only "true" balanced cables having the ground pin separated from the shield and the cable shield properly connected to the cable connector.

Electrical specifications: The maximum signal voltage accepted by the BELLINI Anniversary balanced input is 7 V<sub>rms</sub> differential signal.

Female



XLR

Pin	Function
1	Ground
2	"Positive" (in Phase) polarity terminal
3	"Negative" (contro phase) terminal

### Notes on RCA inputs

The RCA inputs are all standard stereo inputs.

Electrical specifications: The maximum input voltage is 7 V<sub>rms</sub>. The input impedance is 47 KOhm.

### Notes on balanced outputs

The balanced outputs accept connectors according to the standard XLR pinout as reported in the picture below. To avoid creating ground loop between the preamplifier and the preamplifier (which can cause hum problems) use only "true" balanced cables having the ground pin separated from the shield and the cable shield properly connected to the cable connector.



Pin	Function / Funzione
1	Ground
2	"Positive" (in Phase) polarity terminal
3	"Negative" (contro phase) terminal

### Advice on using the BELLINI Anniversary preamplifier

It is preferable to turn the unit off when unused and to unplug it from the outlet when unused for long periods and during lightning and electrical storms. Avoid using small metallic objects around the unit because they could fall inside the unit. Avoid leaving the unit on if unused.

### Volume settings and silencing (mute)

The volume knob on the front panel and the volume control buttons on the remote change the general sound level. It means that the volume of the two channels is altered identically.

The mute button on the remote controller allows you to set the audio level to zero. This function is useful any time you have to suddenly turn down the volume, such as when you have a phone call, when you are talking or when you are changing the CD in the player. When the preamplifier is in mute mode, the volume leds will

start to blink to show the preamplifier status. While the preamplifier is in mute mode, it will be possible to select a different input and change the volume regulation. Once the mute will be deactivated, the preamplifier will get back to the last volume regulation settled.

### Input selection

It is possible to select the desired audio input by pressing the input control buttons on the remote controller. From the remote control you can go up and down simply pressing the IN+ or IN- respectively.

### Configuration setting

In this section the procedures to set the different BELLINI Anniversary functions are described. The functions are accessed by pressing the remote "SET" button (one single push on SET button to move to the next configuration)

When the preamplifier is in "SET MODE" the inputs LEDs will show the function number:

1. Led brightness setting
2. Volume Scale selection
3. Balance
4. Direct mode set-up

To change the set-up of any configuration, you will have to operate with the VOL+ and VOL- keys of the remote control that will activate the volume bar leds corresponding to the desired setting.

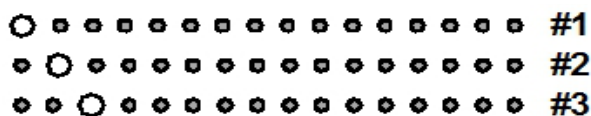
The settings are all stored in the controller and are retrieved when the unit is turned on.

**To return to normal operation, continue to press the SET key until the preamplifier exits the configuration mode and returns to its normal operating status.**

### Led brightness setting (inputs led nr.1)

In this mode only the LED of input 1 will be brighter. **The first three volume LEDs** will show the LED brightness currently set. Three different front led brightness level are available. The brightness setting is applied both to the volume leds and to the input leds. The three options are:

1. Volume Led 1 - Dark Mode (no led lighted)
2. Volume Led 2 - MID Brightness (medium brightness, default setting)
3. Volume Led 3 MAX Brightness (maximum brightness)



The default brightness is the MAX. While the unit is in "Dark mode" all the leds on the front panel are turned off until a command by the remote or by the front control is sent. Then the volume leds and the input led turns on for about a second showing the state of the unit. To modify the brightness push the "VOL+" "VOL-" button on the remote. When the wanted brightness has been chosen press the "SET" button to go to the next function.

### Volume scale selection(input led nr.2)

In this mode only the LED of input 2 will be brighter and the volume LEDs will show the volume scale currently set. Four different volume scales are available. The four curves are:

1. Volume Scale #1 – This setting is thought for general loudspeaker (fig. 1)(default)
2. Volume Scale #2 – This setting is thought for hi efficiency loudspeaker (fig. 2)
3. Volume Scale #3 – This setting is thought to optimize loudspeaker at mid volume (fig. 3)
4. Volume Scale #4 – This setting is a linear-in-dB scale (fig. 4)

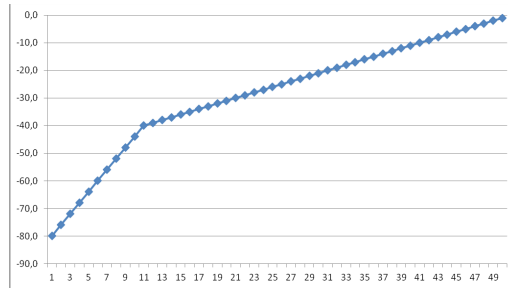


fig. 1

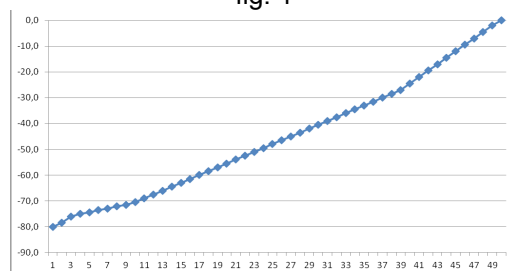


fig. 2

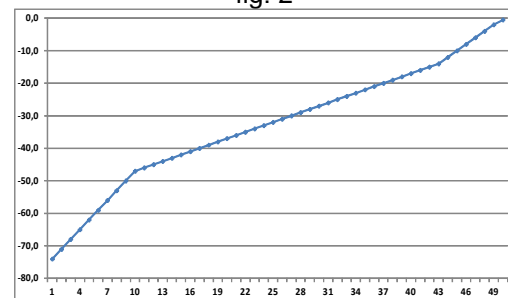


fig. 3

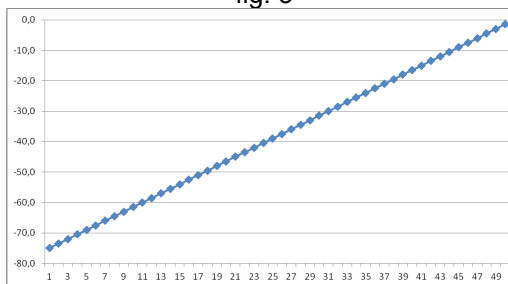


fig. 4



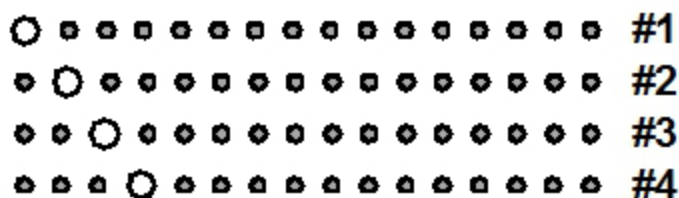
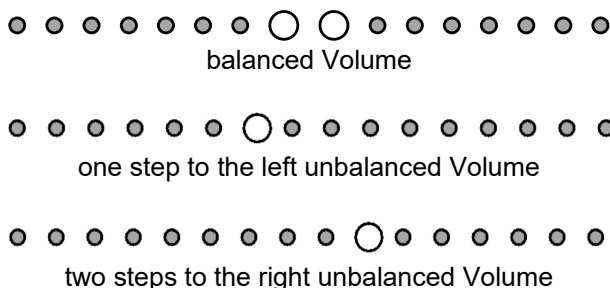


fig. 5

In fig. 5 the volume LEDs for each setting is shown. The default scale is the number 1. To modify the volume scale push the "VOL+" "VOL-" keys on the remote.

### **BALANCE setting(inputs led nr.3)**

In this mode only the LED of input 3 will be brighter. This function permits to balance the two channels. In this mode the input LED number three will be ON and the volume LEDs will show the balance currently set. To change the balance simply press "VOL+" or "VOL-" The Volume LEDs will display the current settings of the balance according to the figure below (three examples).



### **DIRECT mode set-up(inputs led nr.3)**

In this mode only the LED of input 4 will be brighter. Only input 3 can be used in DIRECT mode and once activated the volume bar will have the leds alternatively ON. Once entered the set-up and selected the input's led nr.4, DIRECT mode can be activated moving the first two leds of volume's bar using the VOL+ and VOL- keys on the remote control. It will be shown as follows:

*DIRECT mode not active(default):*



*DIRECT mode active(working as a power amp):*



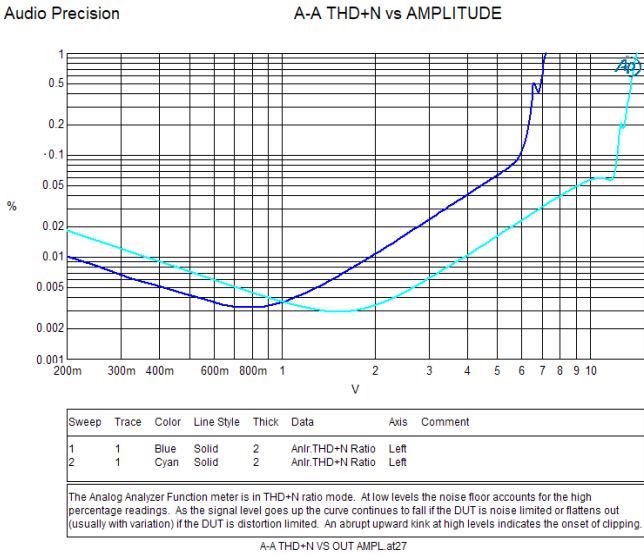
**IMPORTANT=** When the preamplifier is in DIRECT mode the volume is at the maximum. BE CAREFUL!

### **Technical information**

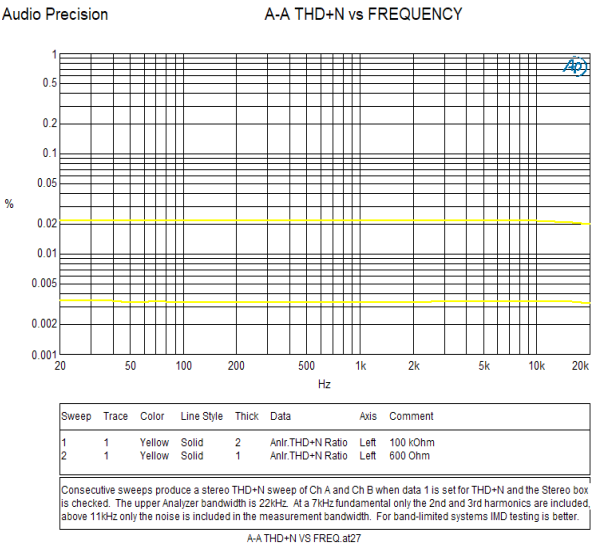
To have detailed technical information please visit the website: [www.audioanalogue.com](http://www.audioanalogue.com).

Technical Data

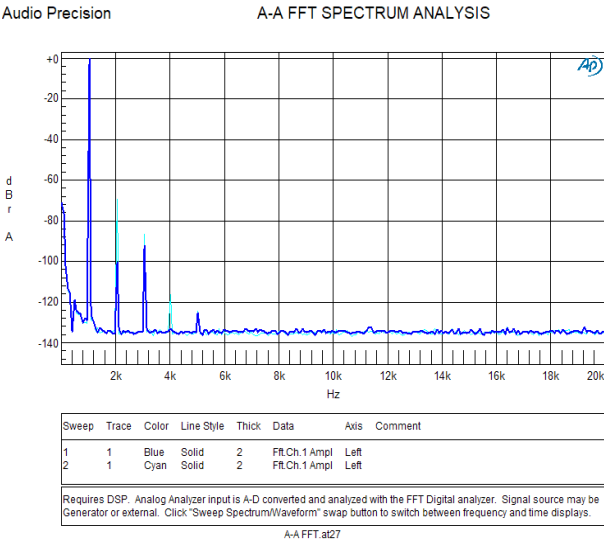
Parameter	Measurement conditions	Value
Channels:	-	2
Input impedance	-	47 kΩ
Gain	unbalanced output	5 dB
Gain	balanced output	11 dB
Frequency Response	Attenuation 0dB, -0.5dB band	200 KHz
Output Noise	Band limits 0Hz-80kHz	≈24 uV
Unbalanced output:	A-weighted	≈9μV
Output Noise	Band limits 0Hz-80kHz	≈37 uV
balanced output:	A-weighted	≈14μV
Signal/noise ratio:	Attenuation: 0dB A weighted referred to 2V <sub>rms</sub> Output	≈103 dB balanced ≈107 dB unbalanced
Standby power consumption:	230VAC	0.7W



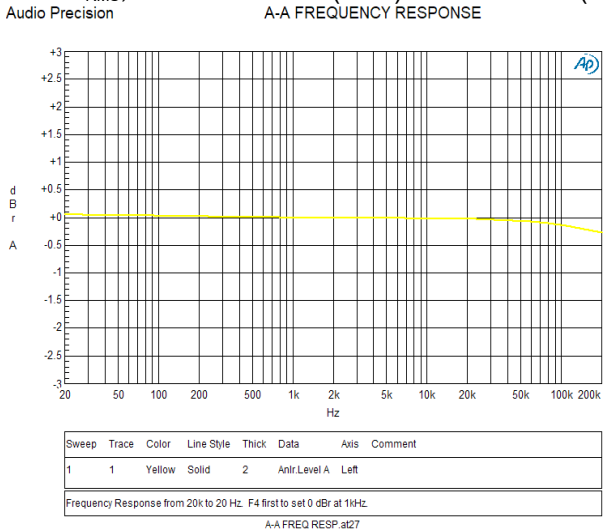
Distortion vs. Output Amplitude at 1 kHz, 100 kOhm Load (Cyan) and 600 Ohm (Blue)



Distortion vs. Frequency at 2 V<sub>RMS</sub>, 100 kOhm Load (0,003%) and 600 Ohm (0,02%)



FFT at 1V<sub>RMS</sub>, 100 kOhm Load (Blue) and 600 Ohm (Cyan)



Frequency response at 1V<sub>RMS</sub>

## TROUBLESHOOTING

Symptom	Cause	Remedy
No led on No sound	Power cord incorrectly plugged in	Make sure the power cord is correctly plugged into the wall outlet
	Burned-out fuses	Check fuses in the fuse holder under the IEC inlet (after unplugging the power cord from the wall outlet) and replace them with new ones of the same type
No sound	Low volume	Turn volume knob right
	Faulty or incorrectly plugged signal connectors between preamp. and the sources	Check cables and their connection
	Off or incorrectly selected source	Check if the source is on and active and if it is correctly selected using the in selector
Remote controller doesn't work	No battery/ worn-out battery	Place/replace battery (2 'AAA' batteries)
	You're standing too far or on an exceeding angle from the front panel	Get closer to the unit or reduce angle
If the suggested remedies do not work or the problem is not shown in the list above, please contact your local Audio Analogue retailer.		



Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a collection system for these products.

Attenzione: il dispositivo è contrassegnato da questo simbolo, che segnala di non smaltire le apparecchiature elettriche ed elettroniche insieme ai normali rifiuti domestici. Per tali prodotti è previsto un sistema di raccolta a parte.

### INFORMATION ON DISPOSAL FOR USERS (PRIVATE HOUSEHOLDS)

#### 1 In The European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin.

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge\*. In some countries\* your local retailer may also take back your old product free of charge if your purchase a similar new one.

\*) Please contact your authority for further details.

If your used electrical or electronic equipment has batteries or accumulator, please dispose of these separately before and according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

#### 2. In other countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the home page of [www.swisco.ch](http://www.swisco.ch) or [www.Sens.ch](http://www.Sens.ch)

### B. Information on Disposal for Business Users

#### 1. In the European Union

If this product is used for business purposes and you want to discard it:

Please contact your Audio Analogue dealer who will inform you about the take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

#### 2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the current method of disposal.