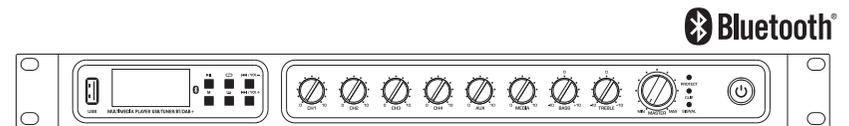




User's Manual

60/120/240W mixer/Amplifier USB-Tuner-BT-DAB+



PAD-60 / PAD-120 / PAD-240

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FCC Part 15 Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- eorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Privacy of communications may not be ensured when using this device.

CAN ICES-003 (B) / NMB-003 (B)

IMPORTANT!

Please read this manual carefully before operating this unit for the first time.

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SAFETY RELATED SYMBOLS



The symbol is used to indicate that some hazardous live terminals are involved within this apparatus, even under the normal operating conditions.



The symbol is used in the service documentation to indicate that specific component shall be only replaced by the component specified in that Documentation for safety reasons.



Protective grounding terminal.



Alternating current /voltage.



Hazardous live terminal .

ON: Denotes the apparatus turns on.

OFF: Denotes the apparatus turns off, because of using the single pole switch, be sure to unplug the AC power to prevent any electric shock before you proceed your service.

WARNING: Describes precautions that should be observed to prevent the danger of injury or death to the user.



Disposing of this product should not be placed in municipal waste and should be separate collection.

CAUTION: Describes precautions that should be observed to prevent danger of the apparatus.

WARNING

• Power Supply

Ensure the source voltage matches the voltage of the power supply before turning ON the apparatus.

Unplug this apparatus during lightning storms or when unused for long periods of time.

• External Connection

The external wiring connected to the output hazardous live terminals requires installation by an instructed person, or the use of ready-made leads or cords.

• Do not Remove any Cover

There are maybe some areas with high voltages inside, to reduce the risk of electric shock, do not remove any cover if the power supply is connected.

The cover should be removed by the qualified personnel only.

No user serviceable parts inside.

• Fuse

To prevent a fire, make sure to use fuses with specified standard (current, voltage, type). Do not use a different fuse or short circuit the fuse holder.

Before replacing the fuse, turn OFF the apparatus and disconnected the power source.

• Protective Grounding

Make sure to connect the protective grounding to prevent any electric shock before turning ON the apparatus.

Never cut off the internal or external protective grounding wire or disconnect the wiring of protective grounding terminal.

• Operating Conditions

This apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on this apparatus.

DETAILED FEATURES

	PAD-60	PAD-120	PAD-240
ELECTRICAL CHARACTERISTICS			
Power (100V)	60 Watts RMS	120 Watts RMS	240 Watts RMS
Power (70V)	60 Watts RMS	120 Watts RMS	240 Watts RMS
Power (4Ω)	60 Watts RMS	120 Watts RMS	240 Watts RMS
Input sensitivity	MIC : -52 dBv balanced LINE : -10 dBv balanced AUX : -10 dBv unbalanced Phantom power supply : -52dBv / 18 V balanced		
Frequency response	80 Hz - 16 KHz (± 3 dB)		
S/N ratio	MIC : ≥ 65dB LINE : ≥ 75dB AUX : ≥ 75dB		
T.H.D+N	≤ 1% @ 1/8 RMS		
Equalization	BASS : ± 10dB (à 100 Hz) ; TREBLE : ± 10dB (à 1 KHz)		
Output voltage	4Ω / 70V / 100V		
Power circuit	Class D switching power supply		
Power supply	AC100-240V, 50/60Hz DC 24V		
Protections	Short circuit / Open circuit / Thermal / Limiter / Ultrasonic and radio frequency		

PHYSICAL CHARACTERISTICS			
Connections	4 MIC / LINE combo connectors 1 AUX input on RCA 1 TEST/ALARM input on Euroblock connector 1 LINE OUT on Euroblock connector One coaxial plug for antenna 4 ohm or 70/100V output on Euroblock connector 24V input on Euroblock connector		
Settings	Setting levels for CH 1, CH 2, CH 3 and CH 4 inputs Player level adjustment AUX input level adjustment Bass and treble equalization CH 1 input priority level adjustment General level adjustment		
Cooling	Fan with thermo regulation		
Dimensions (W x D x H)	483 x 281 x 44 mm		
Net weight	4.1 Kg	4.9 Kg	5.6 Kg

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Do not use this apparatus near water. Install in accordance with the manufacture-r's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not block any ventilation openings.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Follow all instructions.
- Keep these instructions.
- Heed all warnings.
- Only use attachments/accessories specified by the manufacturer.
- **Power Cord and Plug**

Do not defeat the safety purpose of the polarized or grounding type plug.

A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

- **Cleaning**

When the apparatus needs a cleaning, you can blow off dust from the apparatus with

a blower or clean with rag etc.

Don't use solvents such as benzol, alcohol, or other fluids with very strong volatility and flammability for cleaning the apparatus body. Clean only with dry cloth.

- **Servicing**

Refer all servicing to qualified personnel. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so .

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.

The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.

INTRODUCTION

The PAD-60 / 120 / 240 are the fruit of many years' experience of the Audiophony-Pa® brand in the field of amplification and multiple sources. Their ease of use, speed of execution and robustness make them extremely efficient devices. The guide you are now reading will help you quickly familiarize yourself with the various functions and possibilities of the PAD-60 / PAD-120 / PAD-240. Keep it close at hand during the first few uses of your device, so that you can familiarize yourself with its functions.

PACKAGE CONTENTS

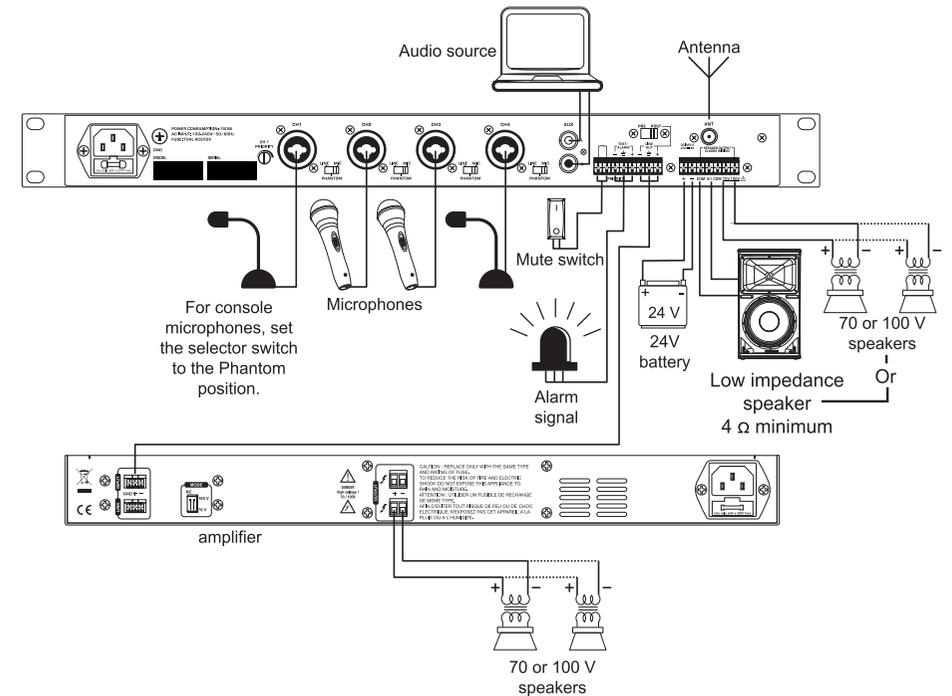
The packaging should contain the following items:

- Amplifier
- 1x2, 2x3 and 1x7 pins Euroblock connectors
- IEC power cord
- Radio antenna

USAGE

Use high-quality cables to connect your speakers. To avoid short-circuits, check that the cable strands are correctly twisted before connecting them to the output terminals.

When connecting your loudspeakers to the amplifier, be sure to observe the correct polarity. Connect transformer-equipped loudspeakers to the 70/100V and COM output terminals. **Warning:** it is not possible to use the 4 Ohms output and the 70/100V output simultaneously. Such wiring will damage the amplifier.





CAUTION

Hazardous voltage
Loudspeaker lines should be connected to the amplifier last.
Switch on the amplifier once the installation has been completed and checked.

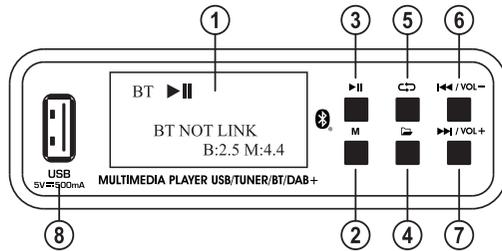




CAUTION

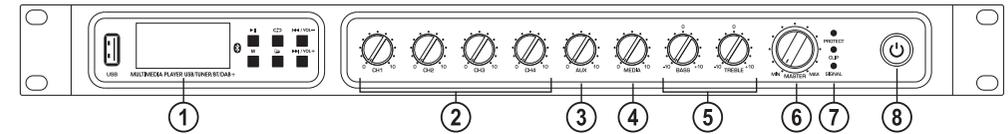
Caution: The sum of the power ratings of all connected loudspeakers must not exceed the maximum power rating of the amplifier.

PLAYER



	ACTION	Bluetooth® 5.3	USB	TUNER	DAB+
1 - Afficheur	Displays player information				
2 - M key	Short press	Change source			
	Long press	Switches player off or on			
3 - ▶ key	Short press	Starts or stops playback	Starts or stops playback. On the file selection page, allows selection of	Automatic station search	Starts and stops station search
4 - 📁 key	Short press	No function	Opens the list of files on the USB key	Manual search for radio stations in descending order	Manual search for radio stations in descending order
5 - ↺ key	Short press	No function	Activates repeat mode. 4 modes are available: ALL, ONE, FOLDER and RANDOM	Manual search for radio stations in ascending order	Manual search for radio stations in ascending order
6 - ◀◀ / VOL - key	Short press	Returns to previous song	Returns to previous song. On the file selection page, scrolls up the list.	Returns to previous station (When the player contains recorded stations)	Returns to previous station (When the player contains recorded stations)
	Long press	Decreases volume			
7 - ▶▶ / VOL + key	Short press	Skip to next song	Skip to next song. On the file selection page, scrolls down the list.	Skip to next station (When the player contains recorded stations)	Skip to next station (When the player contains recorded stations)
	Long press	Increases volume			
8 - USB port	Capacity: max. 64GB / USB2.0 & USB3.0 compatible / File system: FAT32 !! Do not connect devices other than storage devices				

FRONT PANEL



1 Multimedia player

This player integrates the following sources: USB, Tuner, Bluetooth® or DAB+. It also lets you select songs and radio stations, and adjust output levels.

2 CH 1, CH 2, CH 3 et CH 4 potentiometers

These potentiometers adjust the levels of the CH 1, CH 2, CH 3 and CH 4 inputs..

3 AUX potentiometer

This potentiometer adjusts the level of the AUX input.

4 MEDIA potentiometer

This potentiometer allows you to adjust the level of the reader.

5 BASS and TREBLE potentiometers

These potentiometers allow you to adjust bass and treble levels. They act over a range of -10dB

6 MASTER potentiometer

This potentiometer adjusts the overall level of the amplifier.

7 Indicator LEDs

These LEDs give an indication of the amplifier's status:

- **SIGNAL** : Indicates that a signal is present at the power stage input. Lit green.
- **CLIP** : Indicates that the current signal level is too high. Lit red.
- **PROTECT** : Indicates that the amplifier is in protection mode due to overheating or short-circuit.

Notes :

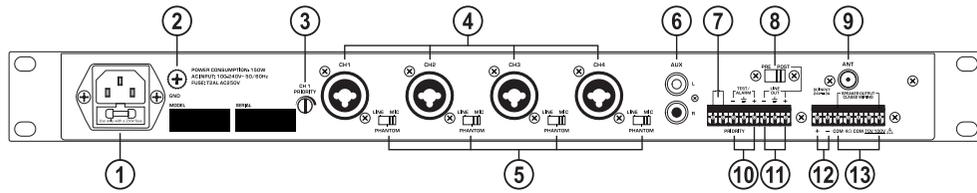
- It is normal for the PROTECT LED to light up for a few seconds when the amplifier is switched on.
- If the PROTECT LED remains lit, switch off the amplifier, wait for it to cool down and check the wiring.
- If the PROTECT LED remains lit when the amplifier is switched on, even though it is not warm and all the wiring is correct, consult a specialist technician.

8 Power ON switch

Switches the amplifier on and off.

When the amplifier is switched on, the button ring is lit in white.

REAR PANEL



1 Power supply input with fuse

Connect the IEC cord supplied to this input, and after checking the voltage supplied, connect it to the mains. If necessary, replace the fuse with one of the same type and rating.
PAD-60 / PAD-120: 5 x 20 mm 2AL 250 V
PAD-240: 5 x 20 mm 2.5AL 250 V

2 GND connector

Allows the amplifier to be grounded when installed in a rack. Use this terminal block if you notice low-frequency hum.

3 CH 1 PRIORITY potentiometer

Used to adjust the attenuation threshold for all other other sources. At maximum, the sources are completely muted.

4 CH 1, CH 2, CH 3 and CH 4 inputs

Connectors (TRS jack and XLR) for connecting microphones or a line-level source. Jack connectors are balanced TRS type.

5 LINE / PHANTOM / MIC selectors

These selectors allow you to choose the input level of the CH 1, CH 2, CH 3 and CH 3 channels. In the Phantom position, the input is at microphone level (-52dBv) and delivers a voltage of 18 V.

6 AUX input

RCA connectors for connecting a unbalanced line-level source.

7 Dry MUTE contact

This connector is used to connect a dry-contact switch to remotely switch off the amplifier and the line OUT outputs.

8 PRE/POST selector

This selector allows you to decide whether or not the LINE OUT output depends on the MASTER level:
- PRE: LINE OUT is not affected by MASTER level.
- POST: LINE OUT depends on MASTER level.

9 Antenna connector

Used to connect the supplied radio antenna. The impedance of this type of connection is 75Ω.

10 TEST/ALARM terminal

Connect the signal from the alarm system to this terminal block. If a signal is present on this input, all other input signals are attenuated.

REAR PANEL

11 LINE OUT output

Used to cascade another amplification system.

12 DC INPUT terminal block

These terminals can be used to connect a 24V DC 5A power supply in the event of a power failure.

13 COM / 4Ω / 70V / 100V terminal blocks

These terminals can be used to connect low-impedance or 70/100V line speakers. Connect low-impedance speakers to the COM/4Ω terminals, or 70/100V speakers to the COM/70/100V terminals.

Warning: it is not possible to use the 4 Ohms output and the 70/100V output simultaneously. Such wiring will damage the amplifier.



Hazardous voltage
Loudspeaker lines should be connected to the amplifier last.
Switch on the amplifier once the installation has been completed and checked.