



Extraudio products are unique, handmade and exclusive.

X250

Integrated Amplifier Pure Class AD

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INTRODUCTION

1.1 Welcome:

Thank you and congratulations on the purchase of your new Extraudio Pure Class A X250 integrated amplifier.

This Integrated Amplifier is the result of a process of research, development and innovation (R + D + I) carried out over 7 years in the Netherlands by specialized engineers.

Extraudio was conceived with the conviction that things can be changed in the high fidelity sector and particularly in High End audio.

We have used a very concrete concept as if it were a mantra “less is more” that Mies Van der Rohe popularized and to which Dieter Rams added a new meaning “less is more, but with better execution”.

Our aims in the production process are:

- To create not just a perfect piece of kit but to create a perfect music box that conveys a totally transparent, silent and authentic live sound that is energy efficient without losing the magic or the weight and measure of the music.
- To create a beautiful, and straightforward, honest and long-lasting product without pre-setting cost limits.
- To put the end user at the forefront of the creative process.

We have achieved all of this with the X250 integrated amplifier and wish you to enjoy your product for many years.

Please read this entire manual carefully.

1.2 Warning:

To avoid risk of fire or electric shock, do not expose this appliance to rain or moisture.

Verify line voltage before use.

Do not remove cover.

No user serviceable parts inside. Refer servicing to qualified service personal.

The warranty is void if the product is tampered with by non-authorized personnel.

Use only an authorized Extraudio service center.

1.3 Explanation:

Your X250 integrated amplifier aspires to be a work of art that also evokes feelings and sensations. It seems to disappear from your listening room and to give way to the musicians who are, after all, the object of our passion. At Extraudio, we strive for the faithful reproduction of the real and authentic live sound of a concert. The X250 does not aspire to be just a piece of technology. Extraudio wagers on a really flat sound, not just neutral but completely flat.

Enjoy the music.

1.4 The contents:

- Power Cable
- Mini-USB remote control charging cable
- Extraudio Remote control
- Owner’s Manual
- Technical report page

If you do not find any of these items, please contact your vendor. We recommend that you keep the packaging so that you can transport the product with total safety if required.

INSTALLATION

2.1 Unpacking

Please remember to keep the original packaging.

Your product has been thoroughly checked and has passed all the quality controls before being packaged and shipped.

Make sure that the packaging is in perfect condition on receiving your product. If you notice any damage, let the carrier know and inform your official distributor.

If it is necessary to return the product to the factory, it must be sent in its original packaging.

Your official warranty will be voided if it is not returned in the original packaging.




2.2 Placement

Remember to plan the placement of your amplifier before setting it up. If you intend to place the X250 on an item of furniture, you must leave a space of at least 5cm or 2 inches on either side of it in order to provide sufficient space for ventilation.

Excessive heating can shorten the service life of the internal components and even cause equipment failure.

It is also necessary to leave enough space at the back of the amplifier in order to facilitate connections with other components and speakers.

2.3 Power ON/OFF:

Connect the power cable to the rear socket. Make sure the voltage is correct for the X250 Integrated Amplifier, which operates correctly at 220-240VAC, 50 / 60Hz. Once plugged into the wall socket, it is ready to function. The button with the brand logo  will light up in orange. The X250 is now in the standby position. Then you must press this logo button  or the remote control button , and the logo-button will change colour from orange to white and begin to blink; it will do so for 60 seconds. Start-up has started; a microprocessor will be reviewing all the functions. Please do not disconnect the appliance from the electrical network during this process. After this pre-heating period of 60 seconds, the logo button will remain lit in white.

NOTE:

Those of our products that are equipped with thermionic valves have a soft start system in order to prolong the life of the valves.

If you wish to switch off the product, press on the logo button or the button on the remote control. The shutdown process will begin: the logo button will change colour from white to orange and start blinking for 20 seconds. Do not disconnect the product from the power supply until the logo button stops blinking.

Although the X250 does not have many external indicators it performs many functions that we wish to conceal and automate by software (in keeping with our mantra, “less is more”) to improvise of use. The entire product is controlled by a microcontroller and loaded with our proprietary and exclusive software and thus ensures any future upgrading only requires changing the software version.

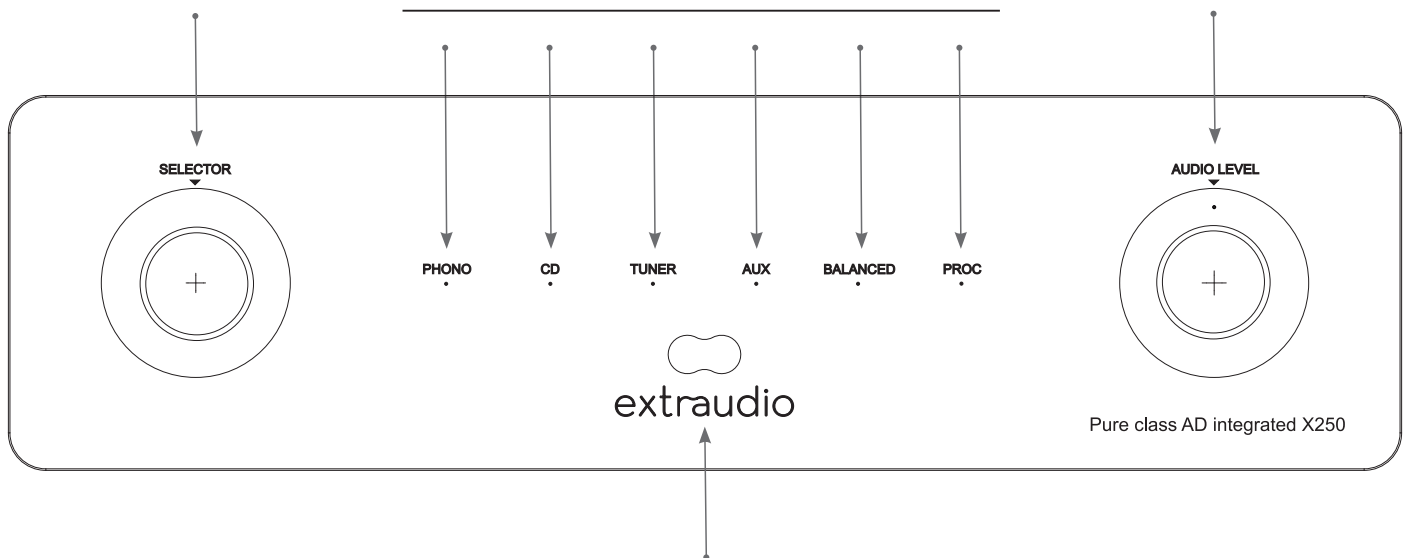
Front panel

The “SELECTOR” knob allows the selection of different input sources for listening.

Input source selected with the Knob selector.

The first time the X250 is turned on position 1: “PHONO source input” is selected. Subsequently, the product memorizes and stores the previous selection and, whenever you turn it on again, it will start up with the last source input that was selected. If one of these LED selection indicators is lit in white, it means that the product is fully operational and that an input source is selected.

LED indicator “AUDIO LEVEL”, when you press the remote control “volume + or -, mute or power on / off” this LED lights red.



Logo button:

Power on / off and LED status indicator:

ORANGE: X250 is off - Standby mode.

WHITE: The X250 is on.

NOTE: When the LED blinks white, it is in the heating phase of the thermionic valves. When the LED blinks orange, it is shutting down.

Phono RCA inputs are installed on the rear panel, you can connect an external phono preamplifier.

Extraudio has an **optional high quality internal MM preamp** available. It is of minimalist design with a single power stage that reduces noise to a minimum and increases the quality of reproduction of your vinyl records. This preamp is built with discrete components in class A and is an essential complement to enjoying your LP's.

NOTE: The **extraudio Phono MM preamplifier option** is not installed in the standard version; if you want this option installed please contact your official distributor or us.

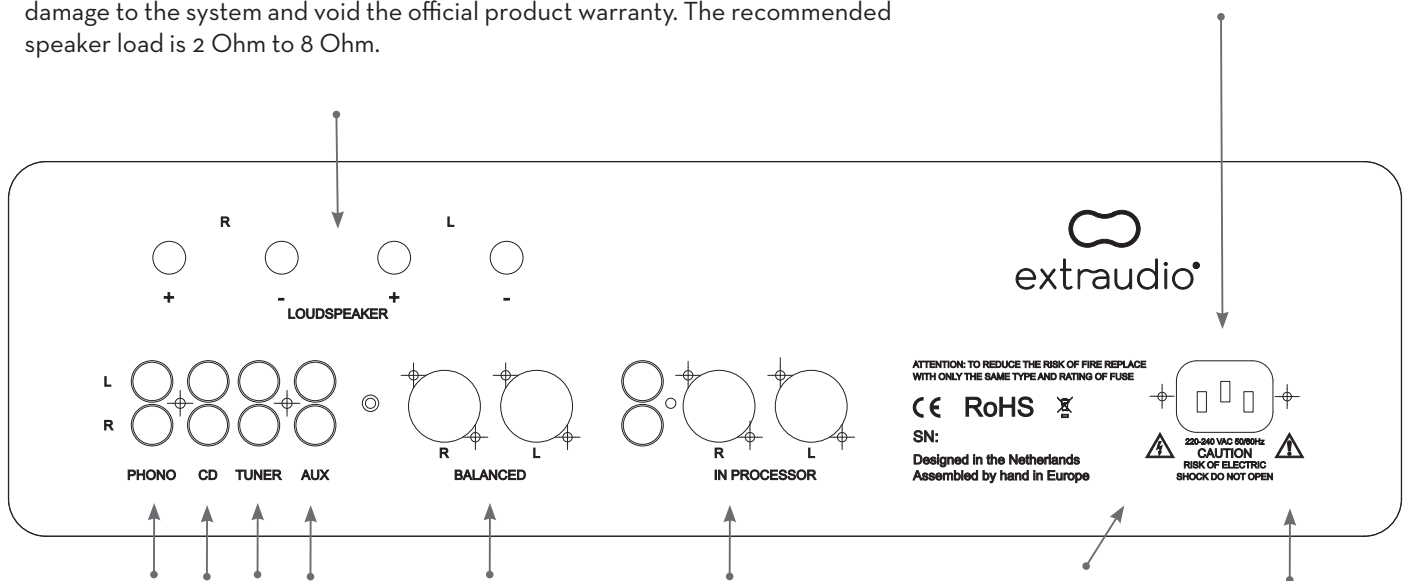
Rear panel

Speaker connection. Output terminals L + R. Connect the speakers correctly, the right one to the terminal marked R and the left one to the terminal marked L. Always check the polarity of the speaker wires; the + sign indicates the red or positive connector and the - sign indicates the black or white connector.

You can use banana plugs or bare wire; the recommended gauge of the speaker wire is from 2mm to 4mm. You can also connect our Active Speaker Cable to get the most out of your X250 integrated amplifier as well as your speakers.

NOTA: Please do not cross or reverse the polarity of the speakers and do not power up the amplifier without connecting the speakers as this can cause very serious damage to the system and void the official product warranty. The recommended speaker load is 2 Ohm to 8 Ohm.

Power supply socket. Keep in mind that for a better sound you must connect the phase of all your audio products correctly. (See. Page 6.3 of this manual)



Stereo RCA inputs. The Phono input is the only special one in the X250. We have an optional Extraudio Phono Preamp MM PH1. Please consult your Extraudio dealer or ourselves about this option and its installation or, if you prefer, we can configure this input as a bypass so that it can be used with an external Phono preamp.

Balanced XLR input of high quality and very low noise with galvanic insulation.

IN processor input connections or audio bypass inputs for home cinema. These two inputs are designed to enable connecting an AV preamplifier to the X250 Integrated Amplifier, which then acts as a power stage and turns off all other systems and the inbuilt preamplifier.

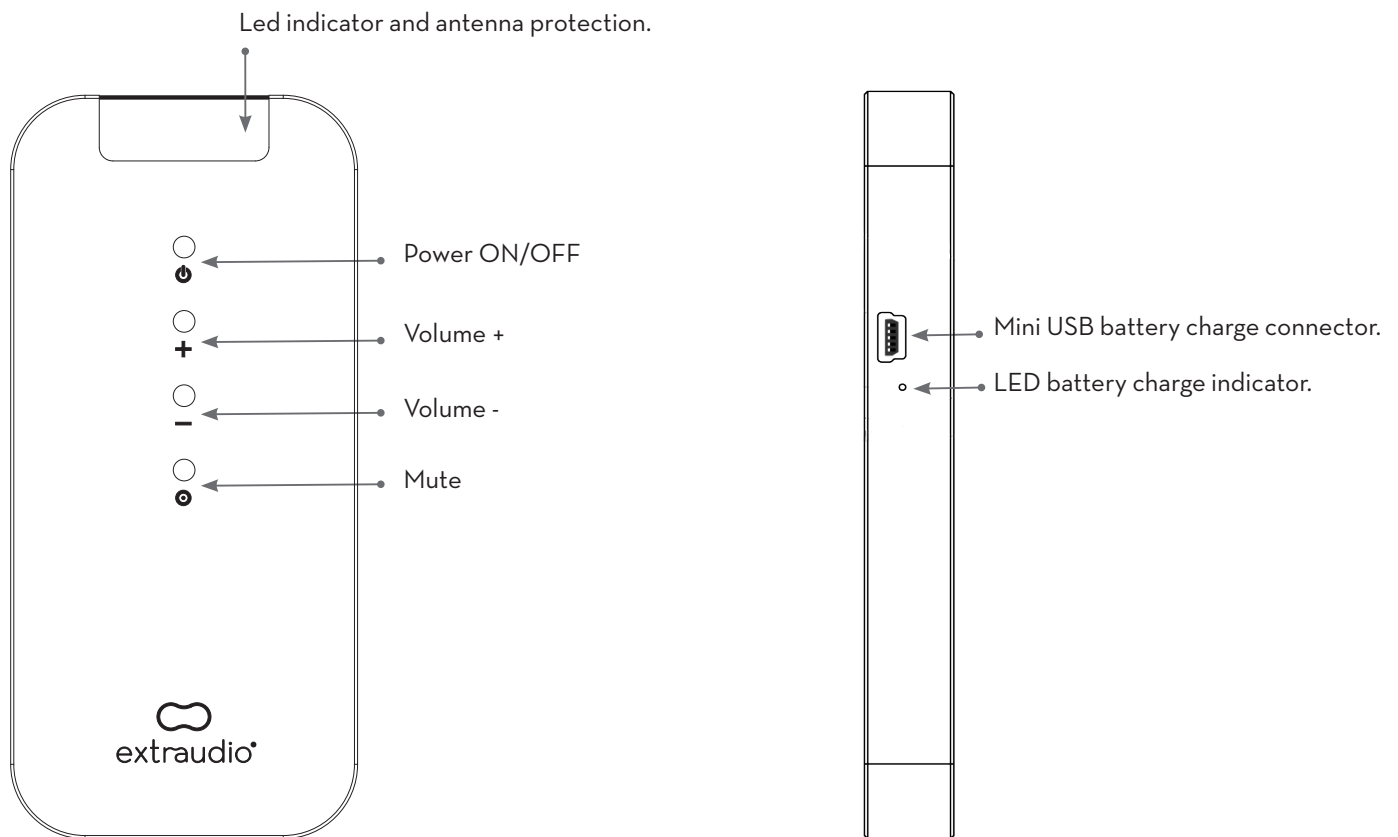
This stereo RCA and XLR input is marked on the front panel with the acronym PROC and is activated by setting position 6 with the front panel selector knob.

NOTE: Take great care when using the X250 as a power amp as it operates at full power and could cause damage to your speakers.

This triangle means, "dangerous voltage not insulated inside the equipment and of sufficient magnitude to constitute a danger of electric shock to people".

The exclamation mark within this triangle signifies and warns the user that this product contains important maintenance, technical service and operational instructions in the literature that accompanies it.

Extraudio remote control



Our remote control has been conceived from a different approach - seeking the convenience of the user. Extraudio wished to offer battery life and operating distance as its main features and these objectives have been achieved:

The remote control does not have removable batteries but has a rechargeable internal battery that only needs recharging after 100 days in conditions of normal use. It includes an integrated USB battery charger with a charge indicator that can be used with any USB port such as a PC. When you connect the USB cable to the remote control, the battery charge LED lights up and when the battery is fully charged the LED will turn off indicating that the battery is 100% charged.

The transmission range is from 20 to 80 meters.

The design is minimalist according to Mies Van Der Rohe's philosophy of "less is more". There are only four buttons: On, Off, Volume up and down and Mute. The concept behind this remote control is unusual but in the end it is a more efficient and ergonomic creation.

Some advice and tips/ Recommendations

6.1 Cleaning and maintenance

Unplug the X250 Extra Pure Class AD Integrated Amplifier unit from the wall socket outlet before cleaning it. The chassis can be cleaned with a soft, damp cloth. It is essential that the cloth does not loose lint. The X250 Integrated Amplifier has a layer of anti-fingerprint varnish on the outside and must not be cleaned with solvents or any chemical product. A special liquid for painted surfaces or a non-abrasive polish can be used if you wish

6.2 Product run-in and operating temperature/ Running in and warming up

Extraudio is fully aware of the empirical concept of running in audio products equipped with thermionic valves and we can affirm that our valve products have a running in period of between 100 to 400 hours of operation. Once run in, the sound is rounder and gains in soundstage and spatiality. The running in process should be carried out with music regardless of the output volume.

Another process is warming up; for a valve audio product to sound properly, it must be turned on for about 45 minutes. This is the time it takes for the product to reach its optimum temperature and point of electrical functioning. It will sound better from 45 minutes onwards.

6.3 Fuse and *phase

Do not tamper with the top plate of the appliance or the warranty could be voided. If the equipment has any problems please contact your official distributor or us.

The fuses are inside the device and should only be replaced by qualified personnel.

For 200-240 volts AC, **proper rating is 8 Amp.**

Fuses must be of T (temporized) type.

Do NOT use fuses with wound coil filaments.

In case of doubt, always install Fast Blow types.

*The phase of a power supply can influence the sound of your audio products, please check that all the devices are connected in the same way and that the phase is correctly connected. Check that the positive phase or pole of the electrical current input is connected to the terminal on the left of its power connector.

6.4 Use electric power line conditioner

We have found that the use of some power conditioners can perform the function of “cleaning” the power supply and eliminating electrical interference and so improving the sound.

6.5 Grounding

The X250 Integrated Amplifier is designed to be connected to a ground connection. For optimum performance, it is very important that the grounding is correct and is enabled in your listening room.

Support

If you need support or have any technical questions about Extraudio products, contact your dealer or contact us by email at the following address so that we can provide fast and quality support:

support@extraudio.com

You can also contact us at the following postal address or by email:

Extraudio BV

Gravin Juliana van Stolberglaan 31, office A8875
2263 AB - Leidschendam
The Netherlands

info@extraudio.com

We also invite you to visit our website:

www.extraudio.com

Remember: Do not tamper with the top plate of the appliance or the warranty could be cancelled: If the equipment presents any problems, please contact us or your official dealer.

Thank you for reading this manual. We wish you to enjoy many hours of listening with your Extraudio and your favourite music. Enjoy the music!

The Extraudio “Beyond the Limits” Team.

Please take a moment:

Save the invoice of your purchase. Enter the following information here for insurance or for a future technical service request: serial number, date of purchase and name of the Extraudio dealer.

Serial Number: _____

Date: _____

Dealer Name: _____

Technical data

Frequency response:

0,5Hz to > 350Khz +0 -1db
Low Frequency: -0,20db 0.5Hz
High Frequency: -0,24db 350kHz

Noise level dynamic range / dBA:

Orange version: > 112db
Chromed version: > 121db

Total harmonic distortion / THD:

THD+N: 0,008% @ 1W (8 Ohm, 1Khz)

Gain:

Main output: 12dB Balanced output, 6dB RCA output.
Processor AV input: 0dB RCA and XLR output.

Analog inputs / Input impedance:

4 pairs of unbalanced RCA + 1 Pair Balanced XLR +
Processor AV (RCA and XLR connectors)
120K ohms Balanced, 60K ohms RCA Inputs (6):
**PHONO, CD, TUNER, AUX (RCA).
BALANCED (XLR). IN PROCESSOR AV
(XLR and RCA connectors).

Maximum input:

20V RMS BAL, 10V RMS RCA.

Crosstalk:

Separation of stereo channels: > -80dB.

Controls:

Volume (ALPS Motorized, controlled by microcontroller), Select
Input, optical rotary encoder (ALPS 18 steps).

Power requirements:

200-240VAC 50/60Hz, 79 watts - 0,5w standby power con-
sumption Energy Star & EU specs

Dimensions:

44,5 cm W by 12,5 cm H by 39,5 cm
D 56,5 cm W by 24 cm H by 52,5 cm D (shipping)

Weight:

39 lbs. (18 kg) Net; 52 lbs. (24 kg) Shipping.

Recommendation tube:

Orange version: Electro Harmonix 6922 Gold pin.
(balanced triode and matched pair).
Chromed versión: Special version dual triodes Balanced NOS
(balanced triode and matched pair).

Power Output:

2 X 250W @ 1% THD+N, 20Hz - 20Khz, 4 Ohm
2X 200W 8 Ohm "both channels driven"

These pre-specifications are subject be changed without notice.

EXTRAUDIO BV, The Netherlands

** The Phono preamp for cartridge MM is optional and is not installed in standard product.

Warranty

Term and conditions:

Extraudio warranty its products for a period of 2 years and covers defects in material and manufacture, labor included, the warranty for the thermionic electronic valves (tubes) is 180 days.

The warranty period begins on the date of purchase from an authorized dealer and is subject to the following terms and conditions:

1. The buyer must register the product within 30 days of the original purchase in order to register and activate the warranty. The registration can be done at the following Extraudio web page: <http://www.extraudio.com/product-registration/>
2. The client must be in possession of the original invoice so that it can be authenticated in the case of any claim under warranty.
3. The Extraudio product must not be modified in any way or the warranty will be null and void. Please consult about valve changes.
4. The Extraudio warranty is only valid in the country of the original purchase.
5. The product must not be kept in a wet or humid environment nor exposed to the outdoors, water or salt water.
6. Extraudio will not be held responsible under any circumstance for any product that has been damaged because of intentional misuse, accident, negligence, loss or any other damage caused to or by other devices despite the fact they interact with an Extraudio product.
7. Extraudio will repair the product within a maximum of 180 days while under warranty.
8. All repairs carried out after the expiry of the warranty will be charged to the owner of the product or the dealer. The repair will be guaranteed for a period of ninety days on parts and labour. The client is responsible for delivering the product to the Extraudio dealer or directly to the workshop in its original packaging and with all the accessories.
The client or dealer will assume all the transport costs, including taxes, involved in sending the product under warranty. Under no circumstance, Extraudio will be considered responsible for any damage caused by accident or neglect on the part of the carrier. Extraudio will return the product repaired under warranty with all transport costs, including insurance, paid. However, Extraudio will not be responsible for any tax on the repair incurred in the country of the client.
9. Extraudio must be notified of the purchase of any of its products at the following web page <http://www.extraudio.com/product-registration/> within thirty days of the purchase. Unregistered products or products not purchased from an authorized dealer will not be covered by the warranty.
10. The warranty is untransferable. It solely protects the original purchaser of the product.
11. In the event of any disagreement with the warranty, the decision of Extraudio is definitive and not subject to review.

10.1 Energy efficiency

0,5w Standby Power Energy Star & EU specs.

Extraudio X250 Pure Class AD is equipped with a high power amplification module with very low power consumption, with an energy efficiency of 94.4%.

10.2 European Directives C E

The Directive 2014/35/EU, CE, RoHs

All Extraudio products will follow and will be homologated to the European directives and quality standards:
Directive 2002/95/CE for Restriction of Hazardous Substances in electrical and electronic equipment, RoHS.

Every product will include an EC declaration and the EC conformity mark, directive 93/68/EEC, besides of being designed and manufactured inside the European Union.

This product has been designed and created following the safety standard of electrical and electronic audio and video equipment, IEC 60065.

10.3 Copyright

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EXTRAUDIO BV

Amsterdam - Leidschendam

The Netherlands

www.extraudio.com

info@extraudio.com

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All the information contained in this manual to date is considered to be correct. Nevertheless, our policy is one of continuous development and the information is subject to change without prior notice and does not represent a commitment on the part of Extraudio BV.



extraudio®

Extraudio BV

Gravin Juliana van Stolberglaan 31, office A8875

2263 AB - Leidschendam

The Netherlands

info@extraudio.com

www.extraudio.com