



DANIEL HERTZ



OWNER'S MANUAL
Audio Amplifier
Maria 350 and Maria 800

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Section 1.

Declaration of compliance

The device described in this documentation is accompanied on sale by the declaration of conformity, drawn up in accordance with the legislation in force in the European territory.

<input checked="" type="checkbox"/>	USE BEFORE USING THE DEVICE IN ANY FORM, CHECK THE PRESENCE OF THE DECLARATION OF COMPLIANCE.
-------------------------------------	--

<input checked="" type="checkbox"/>	USE IF THE DEVICE IS SOLD TO A THIRD PARTY, ALL DOCUMENTATION MUST BE DELIVERED TOGETHER WITH IT.
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Manufacturer data

Company name	Daniel Hertz SA
Company headquarters	Rue du Nant, 8 – 1207 – Geneva (CH)
TVA	113,839,320
Office Tel	+41 79 599 0747
E-mail	support@danielhertz.com
Website	www.danielhertz.com/

Authorized assistance

Authorized assistance on device comes carried out directly by the manufacturing company or by a technician authorized and appointed by the same.

Presentation of the manual

<input checked="" type="checkbox"/>	USE UPON RECEIVING THE DEVICE, BEFORE CARRYING OUT ANY OPERATION, READ THIS MANUAL CAREFULLY.
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This manual contains instructions for setting up, using and maintaining the audio amplifier Maria 350. The manual is composed of various sections, each of which deals with a series of topics, divided into chapters and paragraphs.

The general index lists all the topics covered in the entire manual. The numbering of the pages is progressive and its number is shown on each page. This manual is intended for the user responsible for configuring, using and maintaining the device and concerns its technical life after its production and sale.

In the event that it is subsequently transferred to third parties for any reason (sale, loan for use, or any other reason), the device must be delivered complete with all documentation.

Before starting any operation its necessary to have at least read the entire manual and then studied the topic relating to the operations you intend to carry out.

This manual contains confidential proprietary information and cannot be provided, even partially, to third parties for any use and in any form, without the prior written consent of the manufacturing company.

The manufacturing company declares that the information contained in this manual is consistent with the technical and safety specifications of the device to which the manual refers.

A certified copy of this manual is deposited in the technical file of the device, kept at the manufacturer.

The manufacturing company does not recognize any documentation that has not been produced, released or distributed by itself or by its authorised representative.

This manual, like the entire technical file, will be kept by the manufacturer for the period required by law (10 years).

During this period, a copy of the documentation accompanying the product may be requested at the time of sale.

The entire technical file remains available for this period exclusively for the supervisory authorities, who may request a copy.

After this period, it will be the obligation and responsibility of those who manage the product to ensure that both the product and the documentation comply with the laws in force at the time of the inspection.

- Conventions

In order to obtain a more immediate understanding of the topics, the graphic and typographical symbols and conventions described below have been adopted in the manual.

- Warning graphic conventions




☑	USE
---	-----


	ATTENTION
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	DANGER
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- Pictograms

The device contains the following pictograms:

		 CEI 60417-6044
Danger of electrocution	Generic Danger	CEI 60417-6044

	<p>ATTENTION! The pictograms that perform a safety function must not be removed, covered or damaged.</p>
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Limited Warranty

The limited warranty provisions, listed in full in the purchase contract, are valid only if the device is used in the conditions of intended use.

Except for the interventions described at the section MAINTENANCE and carried out with the indicated procedures, any repairs or modifications made to the device by the user or unauthorized companies will void the warranty.

The limited warranty does not extend to damage caused by incompetence or negligence in the use of the device, or by bad or omitted maintenance.

The products sold by us are covered by a limited warranty regarding the device under the following conditions:

The products sold by us are covered by a limited warranty regarding the device under the following conditions:

1. The limited warranty is valid for a period of 12/60 months depending on the legal nature of the customer.
2. The manufacturing company undertakes to replace, at its discretion, malfunctioning or incorrectly manufactured parts, only after careful checking and verification of incorrect assembly.
3. The buyer is always responsible for transport and/or shipping costs for repairing or replacing the product.
4. During the limited warranty period, replaced products become the property of the manufacturer.
5. Only the original purchaser who has complied with the normal maintenance instructions contained in the manual can benefit from this guarantee. Our limited warranty liability expires when: the original owner relinquishes ownership of the product, or modifications are made to it.
6. The warranty does not include damage resulting from excessive stress, such as using the product after discovering an anomaly, from the use of inappropriate operating methods or from failure to follow the instructions for use and maintenance.
7. The manufacturer assumes no responsibility for any difficulties that may arise in resale or use abroad due to the provisions in force in the country in which the product was sold.
8. The defective product or part of the product will not be replaced without proof of purchase (invoice, copy of payment); otherwise the replaced part will be charged to the buyer.

Notice: if it is deemed necessary to use the limited warranty, please indicate the following data:

1	Type/version
2	Purchase date (presentation of purchase document)
3	Detailed description of the problem

<input checked="" type="checkbox"/>	USE
	FAILURE TO FOLLOW THE USAGE INSTRUCTIONS OUTLINED IN THIS DOCUMENTATION WILL VOID THE WARRANTY.

General safety rules

- Warning

If part of the documentation is even partially missing or illegible, consult the manufacturer before carrying out the procedure and any further operations on the device.

This chapter describes the general safety rules to be observed during any operation performed with the device. The intervention procedures, described in the following chapters, must be carried out respecting both the execution methods indicated and the general safety regulations in this chapter.

The safety regulations and configuration, use and maintenance procedures indicated in this document are also a complement to the general workplace safety regulations that must be respected.

Different countries may have different regulations regarding safety. It is therefore specified that in all cases in which the rules of the documentation are in conflict or reductive compared to the rules of the country in which the device is used, the rules of the country will still have priority over those of the documentation.

	USE
☑	THE MANUFACTURER CANNOT BE HELD RESPONSIBLE IN ANY EVENT FOR ACCIDENTS OR DAMAGES RESULTING FROM THE INAPPROPRIATE USE OF THE DEVICE, AS WELL AS FOR EVEN PARTIAL FAILURE TO OBSERVE THE SAFETY RULES AND INTERVENTION PROCEDURES DESCRIBED IN THE DOCUMENTATION.


Failure to comply with the rules of use and the methods of intervention, configuration, use and maintenance of the device contained in the manual also determines the cancellation of the warranty terms.

- Safety regulations

During configuration and subsequent use of the device, incorrect operating situations may occur which are not foreseen by the documentation. These situations, which are completely anomalous, can sometimes be caused by environmental factors or accidental failures that cannot be foreseen by the manufacturer.

The manual must be kept by the user and/or staff which has the task of managing, maintaining and using the device.

In case of deterioration or loss, the customer may request a certified copy from the manufacturing company. We recommend keeping a backup copy in a place where it cannot be damaged or lost.

	ATTENTION
	SINCE IT WOULD BE IMPOSSIBLE TO DESCRIBE ALL OPERATIONS THAT MUST NOT OR CANNOT BE PERFORMED, ALL OPERATIONS (OTHER THAN NORMAL USE) THAT ARE NOT EXPLICITLY DESCRIBED IN THE MANUAL PROVIDED WITH THE DEVICE ARE TO BE CONSIDERED INFEASIBLE.

Documents attached

	USE
☑	BEFORE USING THE DEVICE, CHECK THE PRESENCE OF ALL THE ATTACHED DOCUMENTATIONS.

	USE
☑	IF IT IS SOLD TO A THIRD PARTY, ALL DOCUMENTATION FOR THE DEVICE MUST BE DELIVERED TOGETHER WITH IT.

In addition to this manual, the following will be delivered with the device:

- Warranty certificate
- Quick start instructions

Section 2.

Introduction

The Maria 350 and Maria 800 amplifiers deliver exceptional sound quality. Externally identical, the Maria 350 has two pairs of speaker outputs (left and right) (see Diagram 2.5), while the Maria 800 has four pairs (left high, left low, right high, right low) for bi-amplified speakers (see Diagram 3.1).

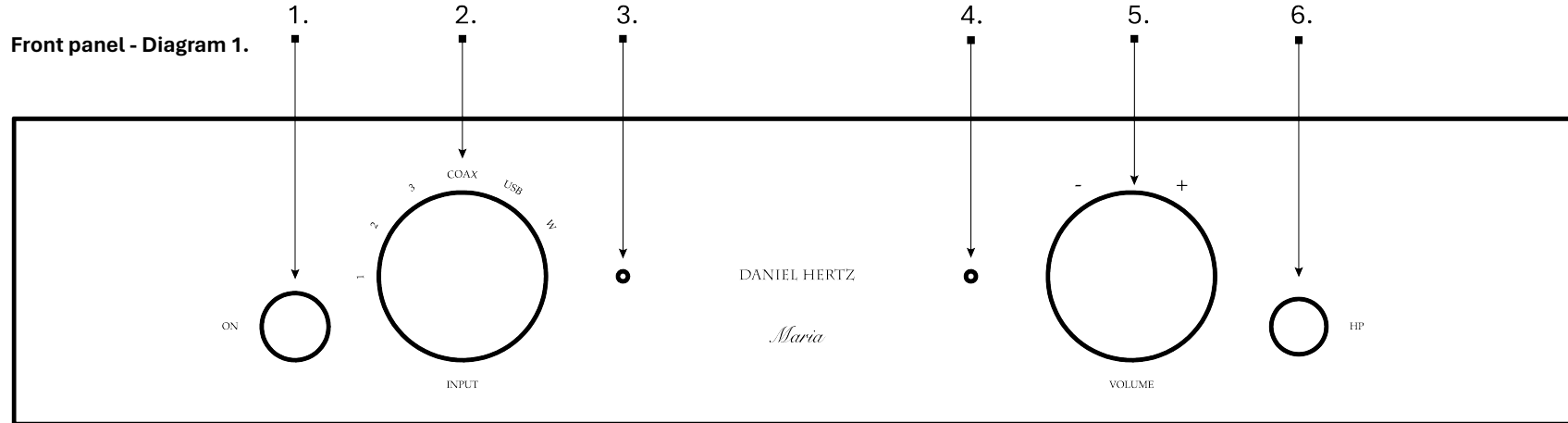


Diagram 1.1. The Standby/On button toggles the Maria between standby and operating modes. The Maria's internal power supply is always on when the unit is connected to a power source. While in standby mode, all internal circuitry is powered down to incur negligible current draw. When the Standby/On button is pressed to engage operating mode from standby mode, volume returns to the last set level.

Diagram 1.2. The Input source selection knob is a manual rotary control with six positions, one for each of the three analog (1, 2, 3) and two digital (COAX, USB), Wishlist (W) inputs. Each Input source selection knob position correlates with an audio input source and Input Status LED indicator colour. Wish list inputs are under development and will be announced soon.

Diagram 1.3. The Input Source Status LED displays different colours to assist the user with understanding which audio source is engaged while the Maria is in operating mode.

Note: The 6th input (W) is the "wishlist" input for future input and output options to be developed. This helps make Maria a living product.

Input Selection/Mode (Diagram 1.2)	Input status LED Color (Diagram 1.3)
Standby mode	No color
1 - Analog 1 input	Green
2 - Analog 2 input	Green
3 - Analog 3 input	Green
COAX - Digital input	Amber
USB Input	Blue
W - „wishlist” - for future developed Input/Output	Light blue

Diagram 1.4. Power Status LED indicator provides mode and signal information through colour associations.

Mode/Signal	Power Status LED Color (Diagram 1.4)
No Power	No Color
Standby Mode	Green
No Signal Detected	Blue
Signal Detected	Green
Signal Clipping	Red

Diagram 1.5. The Input source selector and the volume control are both manual rotary knobs. The Input selector has click stops. The Volume control knob is a digital control with infinite rotation with no stops (i.e. no minimum or maximum rotation).

Diagram 1.6. The Headphone jack is a 1/4" female headphone connector. When headphones are connected to the Maria 1/4" jack, the speaker outputs are disabled. Headphones with a 3.5mm, or 1/8", mini-plug require a female mini-plug to 1/4" male adapter for use with the Maria. Upon Maria's initial activation and connection to a 1/4" headphone jack, the volume defaults to minimum to prevent hearing damage. Rotate the volume knob clockwise to increase the volume to the desired level. Subsequently, the Maria amplifier will retain the last headphone volume level set when placed in standby mode. Disconnecting Maria from AC power resets the headphone level to minimum.

Back panel - Diagram 2.

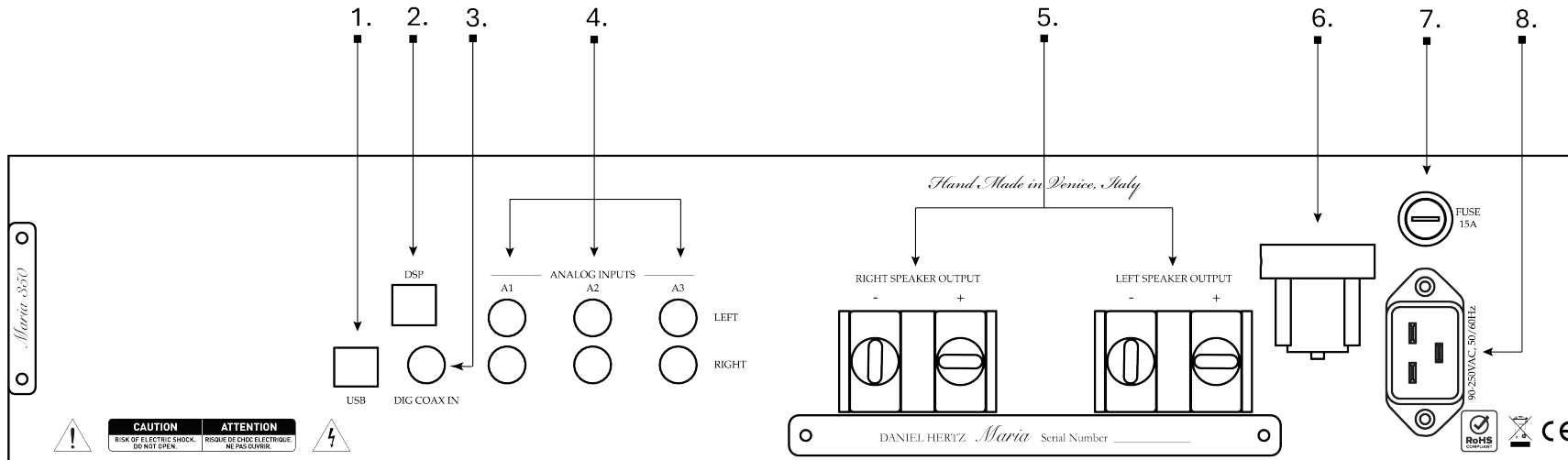


Diagram 2.1. The 24-bit USB (Type B) digital audio input allows the Maria to accept signals directly from any desktop or laptop computer via a male-to-male Type A to Type B USB cable (included).

Diagram 2.2. The USB Type B input, designated for DSP programming functions, serves for updating and fine-tuning the amplifier. Updates can only be performed by trained personnel.

Diagram 2.3. The Digital Coaxial Input supports PCM 2.0 signals from any digital source, offering resolutions of up to 24 bits and sample rates ranging from 44.1 kHz to 192kHz.

Diagram 2.4. The RCA analog inputs (A1, A2, A3) are compatible with all standard line level audio sources. The 1 MOhms input impedance virtually eliminates loading effects from analog sources connected to the Maria.

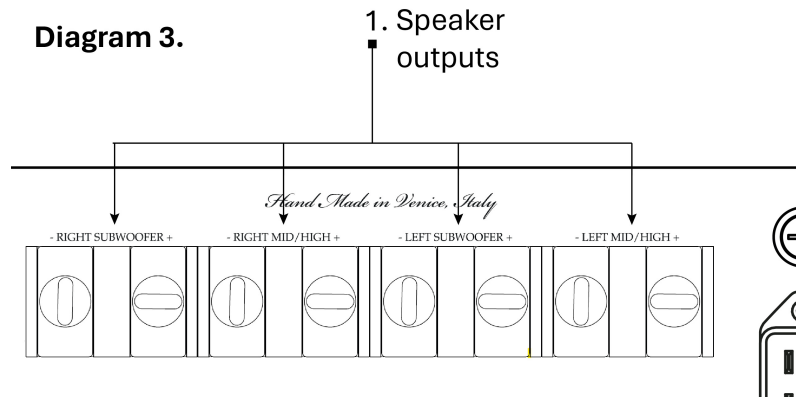
Diagram 2.5. The Speaker Output, Right terminals and Speaker Output, Left terminals are for connecting the Maria to speakers. Please note that the positive/red (+) and negative/black (-) terminals on the speakers and Maria should be connected accordingly – i.e. black to black and red to red. The Maria drives speakers with an impedance of 2 Ohms or higher.

Diagram 2.6. DH speaker cable connector tightening tool.

Diagram 2.7. If the fuse needs to be replaced, use a 15A 250V fast blow fuse.

Diagram 2.8. Power cord connector.

Diagram 3.



Maria 800 speaker outputs

Diagram 3.1 - Maria 800 speaker outputs. Connect the speaker wires to the high and low outputs for both left and right channels (red to red, black to black). Use a tightening tool to secure the speaker cables (see Diagram 2.6)

Note: Using the Maria with a load of less than 2 Ohms is not recommended and voids the warranty.

Description

Maria 350 is a single chassis amplifier that provides the functions of the digital to analog converter, preamplifier, power amplifier, with no need for interconnect cables. A Maria 350, audio source, and speakers is all that is needed for a complete audio system.

Maria has:

- Three analog inputs (1 MOhms to eliminate loading of analog sources.
- USB digital input
- COAX digital input
- an unused input (W) for advanced future options that may be developed in the future.
- Headphone amplifier (9W per channel) via 1/4" front panel phone jack under a stainless steel cover on the front panel. Tuneable.
- Daniel Hertz in-house made speaker connectors, with tightening tool.

- USB DSP connector on the rear panel, for programming functions such as speaker tuning and headphone tuning.
- Chassis made of Waveglas (tm) with polished stainless steel knobs and buttons.
- Maria is built with the Daniel Hertz high performance Mighty Cat chip with the embedded Mighty Cat software suite including DH exclusive C Wave technology.

Specifications

Electrical data	
Power (VAC)	90-250
Frequency (Hz)	50/60
Power (W)	600 (Maria 350)
	1200 (Maria 800)
Power connection	IEC C13
Fuse	15A
Electrical safety class	Class I – Earthing
Mechanical data	
Dimensions (mm)	Height - 110mm (22.0") Width - 430mm (16.9") Depth - 330mm (13.0")
Power cord length (m)	2.5
Weight netto (kg)	6 (Maria 350)
	7.5 (Maria 800)
IP grade	IP20

Audio	
Analog audio Input impedance	1 MOhms
Max analog input voltage	2.2 Vrms
Max digital input voltage	1,414 Vp (0 dBFS)
Rated Power Band (Hz)	20-20.000
S/N (dBu)	105dB *4
THD+N @200Wrms	<0.01%
THD+N @40Vp	0.003% *5
Frequency Response	10-22000 Hz (+0.1/-1.8dB) *2, 20-20000 Hz (+0.1/-0.1dB) *3
Channel Cross-Talk @40Vp	-77dB@10Khz, -93dB@1kHz *4
Amplifier self-noise @1Wrms	-102.2dBV average 20Hz-20kHz *5
Amplifier self-noise @MOL (no signal)	-100.6dBV average 20Hz-20Khz *1
Amplification resolution	384 KHz PWM, 3ns
Digital inputs	<ul style="list-style-type: none"> Digital Coaxial - 16/24 bit, 32-192 kHz USB Audio Class 2.0 - 24 bit, 192 kHz
Analog inputs	<ul style="list-style-type: none"> 3x Analog input - stereo RCA
Analogue outputs	<ul style="list-style-type: none"> Headphones - 1/4" Jack
Amplifier Gain	Programmable

Amplifier outputs	<p>Maria 350: 2 channels @ 350WPC @ 8 ohms, 500WPC @ 4 ohms *6 2 channels @320WPC @ 8 ohms, 460WPC @ 4 ohms *7</p> <p>Maria 800: 4 channels @ 350WPC @ 8 ohms, 500WPC @ 4 ohms *6 4 channels @320WPC @ 8 ohms, 460WPC @ 4 ohms *7</p>
Measuremnt parameters	
Note:	<p>*1 = measured @ analog in, 1Vrms input, MOL (70Vp), 20-20000Hz filter, unweighted.</p> <p>*2 = measured@ coax input -3dBFS input, 96Khz, 2,836Vrms output, 8ohm load</p> <p>*3 = measured@ coax input -3dBFS input, 96Khz, 2,836Vrms output, 8ohm load</p> <p>*4 = Measured with analog input@ 1Vrms input, M.O.L.(71.5Vp), 8ohm load</p> <p>*5 = Measured with analog input@ 1Vrms input, 2,836Vrms output, 1Wrms, 8ohm load</p> <p>*6 = @1Khz, THD+N 1%</p> <p>*7 = 20Hz-20Khz, THD+N<1%</p>

Intended use

The product is intended to be used as an audio amplifier, i.e. a system capable of receiving audio signals as input, amplifying them and sending them to an output for reproduction through a passive speaker.


Non intended use

No use other than those described in the paragraph is intended DESCRIPTION and INTENDED USE.

It is also absolutely forbidden:

- Use the device with components other than those supported and supplied with the product at purchase.
- Use the device for applications that differ from those indicated.
- Change the device.
- Use the device with incompatible accessories.
- Use the device with incompatible power systems.


The reuse of any unit after the device has been decommissioned relieves the manufacturer of any liability arising from its use.

	USE UNDER NO CIRCUMSTANCES SHALL THE MANUFACTURER BE LIABLE FOR ANY ACCIDENTS OR DAMAGE RESULTING FROM THE UNINTENDED USE OF THE DEVICE. ANY UNINTENDED USE WILL ALSO VOID THE WARRANTY.
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Residual risks

During the design phase, the manufacturing company carried out an in-depth risk analysis on the system under exam.

From this analysis, risks emerged that cannot be eliminated due to their nature. These risks have therefore been examined individually and, in this manual, the indications on how to avoid them have been emphasised. It is important, therefore, that any user responsible for configuring, using and maintaining the device has read the manual beforehand.

	USE IN NO EVENT SHALL THE MANUFACTURER BE LIABLE FOR ACCIDENTS OR DAMAGES ARISING FROM UNINTENDED USE OF THE DEVICE, ATTRIBUTABLE TO USER NEGLIGENCE.
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In particular:

- It is absolutely forbidden to make any modifications to the device. Any damage to people, animals or things resulting from the use of the device improperly modified by an unauthorised operator relieves the manufacturer of any responsibility.
- Keep this manual carefully, as it is necessary for correct and safe use of the device. Periodically check the condition of the label applied to the product and restore it if it is damaged. (if necessary, contact authorised assistance)
- If the external structure of one of the components of the device has sharp corners or edges following an accidental impact, such as to make it dangerous, it is necessary to contact authorised assistance and follow their instructions.

Important:

- Do not wet the electrical connections with water or other liquids.
- It is necessary to carry out the maintenance described in the manual.
- Maintenance must be carried out following the instructions in the manual.

OPERATIONS THAT INVOLVE RISKS FOR THE OPERATOR:

During configuration and commissioning operations, follow the general accident prevention regulations.

In particular:

- if you work on electrical parts make sure they are not live.

Already in the design phase, solutions have been implemented to ensure the safe use of the device in all stages of operation: transportation, assembly, adjustment, use, and maintenance. Nonetheless, not all potential risks to operators and the environment have been eliminated, both for technological reasons (device reliability) and management (excessive disposal difficulties). Consequently, the remaining risks are

Section 3.

reported.

Unpacking instructions

The device is supplied inside a viscose bag inserted into a padded nylon carrying case.

Inside the bag, in addition to the amplifier there will be:

- Instruction booklet
- Quick Start Guide
- Warranty certificate
- Power cord
- USB cable
- Gloves

The nylon carrying case is housed in a double cardboard box.

Locations

It is good to keep some aspects in mind before proceeding with the handling and subsequent use of the device. In particular, it is necessary to check some factors:

- The product storage area must be chosen so that it cannot be hit by water, steam jets and corrosive acids.
- The device must never be subjected to atmospheric agents.
- Operating temperature range 0°C to +40°C.
- Storage temperature range -5°C to +50°C.
- Maximum relative air humidity conditions: up to 10-90% without condensation.
- The device must be used indoors only.

Handling

It must be kept in mind that, although carefully protected and packaged, the device must be handled with care and attention.

Before moving the device, check the integrity of the device and its parts. If you find any damage, lack, deformation or traces of impacts, notify the authorised assistance service before proceeding with subsequent operations.

When preparing to use the device, it is necessary to provide for the use of personal protective equipment (PPE) such as:



- Gloves:

when operating in areas with live loads and parts, it is necessary to use CE marked gloves as PPE which protect against all the risks just analysed.

The lighting system (natural and/or artificial) in the area of movement and positioning of the device must ensure the following minimum lighting values: 200 lux.

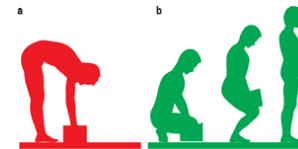
Manual handling

The weight of the device assembled is reported in this manual and on the plate applied to it.

The device can be moved manually as long as it is carried out carefully without hitting the product so that it could be damaged.

To manually move a unit, simply:

- Let the operator grip it firmly and safely.
- That the operator lifts it, paying particular attention not to bend the back and not to turn it upside down (see the following image for the correct posture).



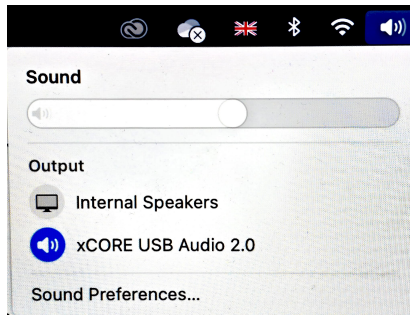
a) incorrect red position – b) correct green position

ATTENTION: the surface on which the device is positioned must be horizontal and able to support its weight.

Connection and configuration

Warning

All devices are tested and fine-tuned by the manufacturing company before shipping and delivery to the customer.



Example of the audio output select panel, on a Mac. The audio select panel differs with Mac OS, Windows and servers.

The device is designed, manufactured and tested to meet all specific standards (see the declaration of conformity), when configured properly.

If the configuration, use and/or maintenance of the device is not carried out in a workmanlike manner, anomalies may occur during use and safety problems may also arise. Improper use and maintenance will void the warranty terms.

Before configuring and connecting the device to the power supply and putting it into operation, completely remove any dust or moisture protection and any packaging material.

Preliminary checks

Check for any damage

Check that the various parts of the system do not present physical damage due to impacts, tears or abrasions.


Check in particular:


- that there are no marks or dents indicative of impacts that occurred during transport;
- the power and connection cables are intact;
- That the inputs and outputs are intact;

Damage reporting procedure

If damage is found, interrupt the procedure in progress and report the nature of the damage found to the customer support office of the manufacturer.

Electrical connection

	ATTENTION
	VERIFY THAT THE ELECTRICAL NETWORK TO WHICH THE SYSTEM WILL BE CONNECTED COMPLIES WITH THE ESSENTIAL SAFETY REQUIREMENTS IN FORCE IN THE TERRITORY AND A LIFE-SAFE SYSTEM IS PRESENT.

	ATTENTION
	THE CONNECTION CABLES MUST NEVER BE PLACED ON THE GROUND BUT BE SUSPENDED OR CONTAINED IN SUITABLE TUBES AND CHANNELS.

1. Insert the IEC 320-C13 connector of the power cable into the amplifier socket, located on the rear panel (Figure 1).
2. Connect the other end of the power cord to the mains.

Configuration

- Connection to speakers.

Remove approximately 15mm of sheathing from the power cables. Unscrew the red and black color coded knobs of the audio connectors on the rear panel enough to insert the metal conductor of the cable.

Insert the power cables between the brass plates of the connectors (see diagram 2.5), respecting the polarity (BLACK negative, RED positive) and the position of the speakers (right and left).

Tighten the knobs by hand.

Tighten the knobs further using the dedicated tool (see diagram 2.6).

Operational procedures

Connection to a USB device such as a Mac, Windows pc, or server.

1. Insert the USB type B (printer type) plug into the USB Audio input (USB A port) on the rear panel of the Maria amplifier (see diagram 2.1).
2. Plug the other end of the cable into a USB (Type A) port on your computer or laptop, USB source device. If you have a type C USB port, use an adaptor for Type A.
3. Turn the selector knob on the Maria front panel to USB (see diagram 1.2).
4. Set your source device volume down to a low level as a precaution.
5. Select xCORE USB AUDIO 2.0 as the audio output.
6. Play an audio track from your source device, increase the level on the player and adjust the volume on your Maria.

Connection to an analog source.

1. Remove shorting plugs from the RCA connectors of the chosen analog input from A1 to A3 (see diagram 2.4).
2. Insert fully the RCA plugs into the respective connectors, left to left, and right to right.
3. Rotate the Maria knob on the front panel to the chosen analog input 1 to 3 (see diagram 1.2).

Connecting to a digital with COAX output.

1. Remove the dust cap from the coaxial connector (see diagram 2.3).
2. Insert the plug of the coaxial cable into the connector, making sure to insert it all the way.

3. Rotate the selector knob on the front panel of the amplifier to the digital input (COAX) (see diagram 1.2).

Troubleshooting

Problem	Cause	Remedy
The amplifier does not turn on.	Power cord not connected	Connect the 2P+T power cable to the electrical socket.
The amplifier does not turn on.	Green power LED	Press the Power ON button.
The amplifier is turned on but does not play.	Speakers disconnected	Turn off the amplifier, connect the speakers correctly, turn the
The USB connection fails.	Uncertified or damaged (bent) USB cable	Check that the USB cable is USB 2.0 certified, replace with a certified cable shorter than 2m.

If any unexpected and dangerous anomaly occurs during the switching on and use of the device, it is recommended to switch off the device and contact technical assistance.

Cleaning Maria

1. Select an Appropriate Cleaner. Use a fluid suitable for Plexiglas
2. Prepare the Cloth. Dampen a soft, lint-free microfibre cloth with a small amount of the cleaning solution.
3. Clean the Surface. Wipe the Plexiglas gently with the damp cloth, applying light pressure. Avoid scrubbing or using abrasive materials, as they can scratch the surface.

Section 4.

Maintenance

Maintenance operations must be carried out by personnel who have previously read the manual.

Any type of cleaning or physical maintenance must always be carried out with the system turned off and disconnected from the power supply. When carrying out these interventions, carefully follow the instructions in this manual.

Safety

- Gloves:



when operating in areas with live loads and parts, it is necessary to use CE marked gloves as PPE which protect against all the risks just analysed.

- Safety goggles:

they are necessary in all jobs where there is a danger that an object and/or material could be projected into the eyes of an operator.



Maintenance operations must be carried out by personnel who have previously read the manual. Any type of cleaning or physical maintenance must always be carried out with the device turned off and disconnected from the power supply. When carrying out these interventions, carefully follow the instructions in this manual.

DANGER	
	DISCONNECT THE DEVICE FROM THE POWER BEFORE CARRYING OUT ANY CLEANING OR PHYSICAL MAINTENANCE OPERATIONS.
	 1425

For any maintenance and cleaning intervention, in addition to the indications contained in this manual, the general safety regulations and possibly the general workplace safety regulations in force in the place where these operations are carried out must be respected.

Periodic maintenance

Periodically it is necessary to clean the device from any accumulation of dust and dirt that may have formed on the external and internal surfaces. If necessary, use a compressor to blow the dust. You can also use a semi-damp, non-abrasive cloth without alcohol or aggressive solvents. Do not use abrasive sponges, chemical solvents or detergents. During cleaning, avoid water touching electrical parts of the device.

Extraordinary maintenance

Extraordinary maintenance is required in the event of faults or breakages, unforeseeable accidents or inappropriate use of the device.

The situations that may arise from time to time are completely unpredictable and therefore it is not possible to describe appropriate intervention procedures.

If necessary, consult the manufacturer's technical service to receive instructions appropriate to the situation.

All interventions, mechanical, electrical or electronic, ordinary or extraordinary, must in any case be carried out by specialised and authorised personnel / by our assistance service.

DECOMMISSIONING

Deactivating the device

The device is produced and built according to criteria of robustness, durability and flexibility which allow it to be used for many years. Once it reaches the end of its technical and operational life, it must be taken out of service in such a way that it can no longer be used for the purposes for which it was designed and built at the time, making it possible to reuse the raw materials that constitute it.

The same deactivation procedures must be observed in all of the following cases:

- Decommissioning the device and storing it in the warehouse.
- Final decommissioning and subsequent disposal.

	USE
☑	THE MANUFACTURING COMPANY DOES NOT ASSUME ANY RESPONSIBILITY FOR DAMAGES TO PERSONS OR PROPERTY RESULTING FROM THE REUSE OF SINGLE PARTS OF THE DEVICE FOR FUNCTIONS OR IN MOUNTING CONFIGURATIONS DIFFERENT FROM THE ORIGINAL USE. THE MANUFACTURER REFUSES ANY ACKNOWLEDGMENT, IMPLIED OR EXPLICIT, OF ELIGIBILITY FOR SPECIFIC PURPOSES OF PARTS OF THE DEVICE REUSED AFTER FINAL DEACTIVATION WITH A VIEW TO ITS DISPOSAL.

Disposal

The possibility of reusing some electrical parts of the device is subject to the total responsibility of the user.

The symbol indicated in Legislative Decree no. 49 of 14 March 2014 which transposes Directive 2012/19/EU has been shown on the label, which indicates the need to dispose of the product in separated waste, specifically in type waste electrical and electronic. Refer to the waste collection center located in your area. Specific symbol:



	USE
☑	THE MANUFACTURING COMPANY NONOR IS IT IN ANY WAY RESPONSIBLE FOR DAMAGES CAUSED BY THE DEVICE IF NOT USED IN THE FULL VERSION AND FOR THE USES AND METHODS OF USE SPECIFIED IN THIS MANUAL. THE MANUFACTURER IS NOT IWE ARE NOT RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY RESULTING FROM THE RECOVERY OF USED PARTS OF THE DEVICE AFTER ITS DISPOSAL.



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