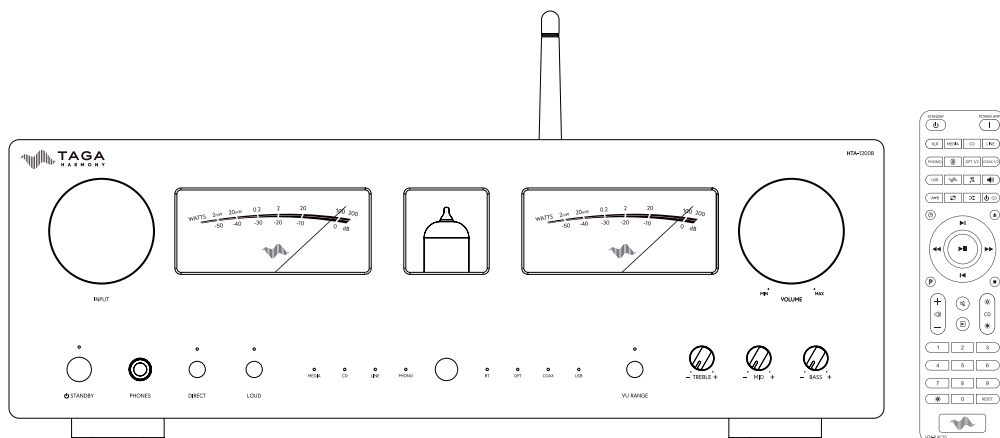




HTA-1200B

HYBRID INTEGRATED AMPLIFIER



Instruction Manual

Introduction

Thank you for purchasing this TAGA Harmony amplifier.

The Fusion of Analog Warmth and Digital Precision

The HTA-1200B is meticulously engineered to combine the best of analog and digital technologies, this hybrid amplifier represents a new era in audio refinement, offering a sophisticated solution for discerning audiophiles and music enthusiasts.

KEY FEATURES

Hybrid Design: Immerse yourself in the rich and harmonically detailed sound produced by the vacuum tube analog stage. Experience the warmth and depth that only tubes can deliver.

The preamp stage utilizes high-performance tubes [3 x 6N2] for control, and the output stage uses high power transistors, for the best performance, power output, efficiency, and overall sonic characteristics.

High-Current Design: oversized high-grade toroidal power transformer delivers 2 x 120W at 8Ω / 2 x 180W at 4Ω of power.

The power transformer generates max 600W and gives capability to drive speakers efficiently and with precision and clarity.

This is especially important for demanding audio applications.

Class AB Amplification: the design combines elements of both Class A and Class B amplifiers to achieve a balance between efficiency and linearity. Class AB amplifiers reduce the energy waste of Class A amplifiers while maintaining lower distortion levels than Class B amplifiers.

This makes them well-suited for high-fidelity audio applications.

High-Grade Capacitors: play a crucial role in shaping the signal's quality and characteristics.

Passive Heat Dispersion: oversized heat radiator for effective heat dissipation (passive design with no fans used).

Precision Volume Control: the preamplifier incorporates a precision volume control system (utilizing audiophile grade Japanese ALPS volume potentiometer), allowing for fine adjustments to achieve the perfect balance in your audio setup.

Sound Control: including adjustments for low, mid and high frequencies, Loudness compensation that boosts bass and treble frequencies at lower volume levels, as well as the Direct feature to bypass bass, midrange and treble settings for the most natural listening experience.

Power Meters - display the output level (Watts / dB at 8Ω) of each channel, incorporating the VU RANGE boost function.

Introduction

Versatile Connectivity: wide range of analog and digital inputs and outputs, the HTA-1200B seamlessly integrates into any audio system, providing flexibility and convenience.

Bluetooth® to wirelessly stream music from smartphones, tablets, computers, online streaming services and Internet radio.



aptX™ HD enhanced codec supports 24-bit music quality over *Bluetooth®*. This means listeners can hear even the smallest details in their music.



Qualcomm®
aptX™ HD

4 analog inputs: including a turntable (MM cartridge) input so you can enjoy music from your favorite vinyl records.

3 digital inputs: high-resolution optical and coaxial inputs (24bit/192kHz) and USB-B input for a computer and mobile devices with support of digital audio files PCM up to 32bit/768kHz or DSD up to DSD512.

Preamplifier output: for connecting external devices such as an active subwoofer, power amp, etc.

Headphone output: for discrete listening.

RCA inputs and outputs utilize solid high-end, gold-plated machined brass sockets.

High-End Class Speaker Connectors: for almost lossless audio signal transmission to the speakers.

Fully-Functional Remote Controller: controls most features of the Amplifier and selected features of other TAGA Harmony equipment (power amplifiers and CD players).

An IEC C14 power inlet and a removable Schuko-IEC C13 power cord give an option to upgrade to a premium audiophile power cable at any time.

The HTA-1200B amplifier is a marriage of tradition and technology, offering a truly immersive listening experience. It is design for audio enthusiasts who prioritize high power, precision, and reliability in their audio systems.

The Class AB design contribute to a high-quality listening experience, making it suitable for demanding applications where audio fidelity is crucial.

Introduction

Cleaning

Do not use strong or abrasive cleaners. Use a damp, soft cloth for cleaning.

Specifications and the latest instruction manual edition

Full technical specifications and the latest edition of the instruction manual are available on **www.TagaHarmony.com**

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Safety Instructions

IMPORTANT READ THIS SECTION CAREFULLY BEFORE PROCEEDING!



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The triangle containing a lightning symbol is intended to alert the user to the presence of uninsulated dangerous voltages within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



An exclamation mark in a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE, AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.

CAUTION: TO PREVENT ELECTRIC SHOCK, FULLY AND SECURELY INSERT THE POWER CABLE PLUG INTO THE POWER OUTLET, AND POWER CABLE CONNECTOR INTO THE UNIT SOCKET (IF THIS UNIT IS NOT EQUIPPED WITH AN INTEGRATED [ATTACHED] POWER CORD).

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE THE FUSE (IF THE UNIT IS EQUIPPED WITH A USER REPLACEABLE FUSE) ONLY WITH THE SAME AMPERAGE AND VOLTAGE TYPE. IN CASE WHEN THE UNIT IS NOT EQUIPPED WITH A USER REPLACEABLE FUSE - REFER REPLACEMENT TO QUALIFIED SERVICE PERSONNEL.

WARNING: THE UNIT MAY BECOME HOT. ALWAYS PROVIDE ADEQUATE VENTILATION TO ALLOW FOR COOLING. DO NOT PLACE THE UNIT NEAR A HEAT SOURCE, OR IN SPACES THAT CAN RESTRICT VENTILATION.

Safety Instructions

1. Read Instructions - All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug this product from the power outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
6. Water and Moisture - Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink or laundry tub; in a wet basement; or near a swimming pool; and the like. These precautions also apply to the power cord.
7. Accessories - Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious injury to a child or adult and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.
8. Ventilation - This unit may be equipped with slots and openings in the cabinet (housing) which are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should be not placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. For products equipped with a separate power supply unit, leave at least 5cm (2in.) of free space on all sides and the top of the power supply.
9. Power Sources - This product should be operated only from the type of power source indicated on the marking label (placed on the product and/or, if applicable, on a separate power supply unit). If you are not sure of the type of power supply in your home, consult your product dealer or local power company. For products intended to operate from battery power or other sources, refer to the operating instructions.
10. Grounding and Polarity - some units for proper operation or to take full advantage of their capabilities may require to be connected to a grounded power outlet - refer to the user manual for more information.
Some units may have markings for the live (L) and neutral (N) conductors for power - in order to take full advantage of capabilities of such products, it is recommended to properly connect the polarity according to the markings on the unit - refer to the user manual for more information. Connecting the polarity not in accordance with the markings will not affect the durability and reliability of the device.
11. Power-cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the product.
12. Lighting - For added protection for this product during a lighting storm or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or system cables. This will prevent damage to the product due to lightning and power-line surges.
13. Overloading - Do not overload wall outlets, extension cords or integral convenience receptacles as this can result in a risk of fire or electric shock.
14. Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with water, such as vases are placed on the apparatus.
15. Servicing - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
16. Damage Requiring Service - Unplug this product from wall outlet and refer servicing to qualified personnel under the following conditions:
 - when power supply cord or plug is damaged;
 - if liquid has been spilled or objects have fallen into the product;
 - if the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will require extensive work by a qualified technician to restore the product to its normal operation;
 - if the product has been dropped or damaged in any way;
 - if the product exhibits a distinct change in performance - this indicates a need for a service.
17. Replacement Parts - when replacement parts are required, be sure the technician has used replacement parts specified by the manufacturer or with the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
18. Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety check to determine that the products is in proper operating condition.
19. Wall of ceiling mounting - The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
20. Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.
21. [Refers to products equipped with vacuum tubes] Tube Cage or cover - For your safety and to protect the vacuum tubes this product may be equipped with the factory installed vacuum tube cage or cover.
It is not recommended to remove the cage or cover unless it is required to change the vacuum tubes.
When the cage or cover is removed - do not touch the vacuum tubes - they may be hot and burn the skin!
22. Operating Environment - Operating environment temperature and humidity of the unit: +5°C to +35°C (+41°F to +95°F); less than 85% RH (cooling slots not blocked).



PACKAGING WARNING

The packaging may contain elements such as plastic, that **should be kept away from small children.**

The thin foil or small elements can stick to the nose and mouth, or may be swallowed and prevent breathing.

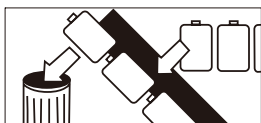
Batteries- Safety Instructions

IMPORTANT

READ THIS SECTION CAREFULLY BEFORE PROCEEDING!



Make sure to insert the battery aligning the correct polarity - the positive and negative ends should be facing in the correct direction as marked on equipment. Incorrect fitting may cause leakage or, in extreme cases, fire or even an explosion.



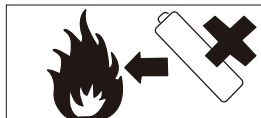
Always replace the whole set of batteries at one time, taking care not to mix old and new batteries or batteries of different types, since this may result in leakage or, in extreme cases, fire or even an explosion.



Store unused batteries in their packaging and away from metal objects which may cause a short-circuit resulting in leakage or, in extreme cases, fire or even an explosion.



Remove dead batteries from equipment and all batteries from equipment when you know you are not going to use for a long time. Otherwise the batteries may leak and cause damage.



Never dispose of batteries in fire as this can cause them to explode. Please recycle dead batteries; do not put with the normal household waste.



Never attempt to recharge ordinary batteries, either in a charger or by applying heat to them. They may leak, cause fire or even explode. There are special rechargeable batteries which are clearly marked as such.



Supervise children if they are replacing batteries by themselves in order to ensure these safety instructions are followed.

Batteries- Safety Instructions



Remember that small button cell batteries such as used in some hearing aids, toys, games and other appliances, may be easily swallowed by young children and this is dangerous.



Keep loose button cells away from young children.



Make sure appliance battery compartments are securely closed.



Seek medical assistance if you believe a battery has been swallowed.

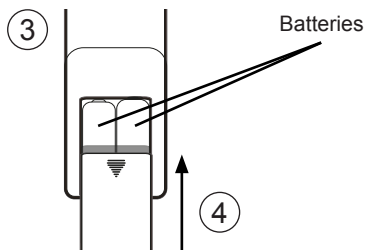
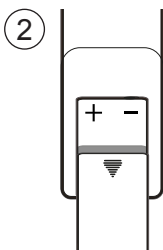
Remote Controller



- Always use AAA batteries and do not use the rechargeable batteries.
- If the batteries run out, remove the old batteries and replace them with new ones within several minutes.
- If the batteries are placed incorrectly, they can cause explosion.
- Remove the batteries if the remote controller is not used for a long period of time.
- Do not handle and store the batteries together with metallic tools.
- KEEP AWAY FROM CHILDREN!

Battery Installation

1. Prepare two AAA batteries (not provided with this product).
2. Remove the rear battery cover by sliding it downwards.
3. Insert the batteries into the battery compartment. Carefully follow the polarity diagram inside the battery compartment (positive + and negative - symbols).
4. Reinstall the rear cover.

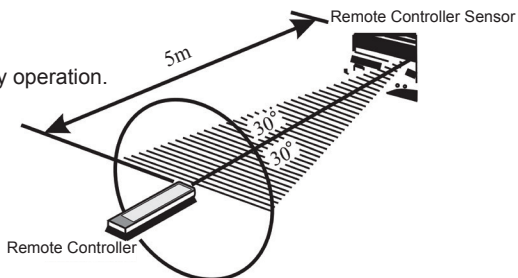


Operating range

Use the remote controller by aiming it at the remote controller sensor.

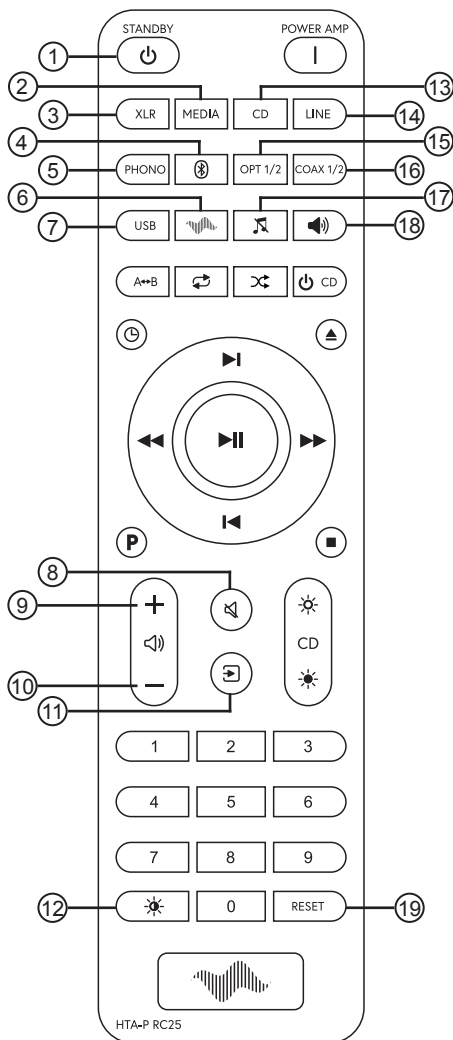
The remote controller can operate in the maximum range of 5 meters away from the Amplifier and within 30 degrees from the axis of the controller sensor.

Note! Exposing the remote controller sensor to direct sunlight or strong light may cause faulty operation.



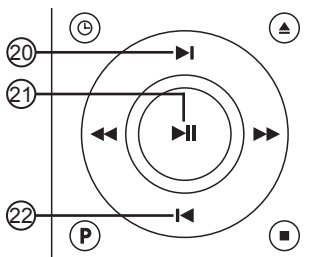
Remote Controller

Note! The remote controller is working with other TAGA Harmony models and some buttons or features are not available (**N/A**) for this Amplifier.



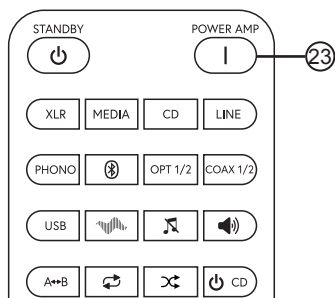
1. Standby Button - Amplifier (**STANDBY** ⏻)
2. MEDIA function Button (**MEDIA**)
3. XLR function Button (**XLR**) N/A
4. **Bluetooth®** function Button (📶)
5. PHONO function Button (**PHONO**)
6. NETWORK function Button (🌐) N/A
7. USB function Button (**USB**)
8. Mute Button (🔇)
9. Volume Up Button (⏮️ +)
10. Volume Down Button (⏭️ -)
11. INPUT selector Button (⏮️)
12. Backlight of Power Meters / Vacuum Tube Window (💡)
13. CD function Button (**CD**)
14. LINE function Button (**LINE**)
15. OPTICAL 1/2 function Button (**OPT 1/2**)
OPT 2 N/A
16. COAXIAL 1/2 function Button (**COAX 1/2**)
COAX 2 N/A
17. Direct function Button (🎵)
18. Loudness function Button (🔊)
19. Reset **Bluetooth®** pairing history Button (**RESET**)

Remote Controller



Bluetooth® control

- 20. Next Button (▶)
- 21. Play/Pause Button (▶||)
- 22. Previous Button (◀)

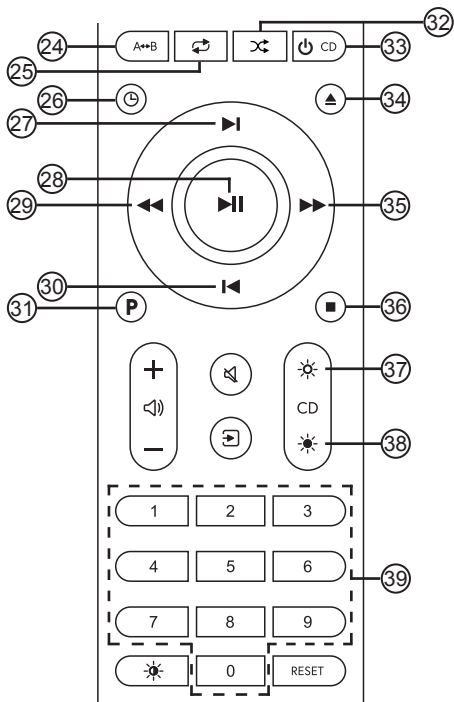


Power Amplifier control (external component)

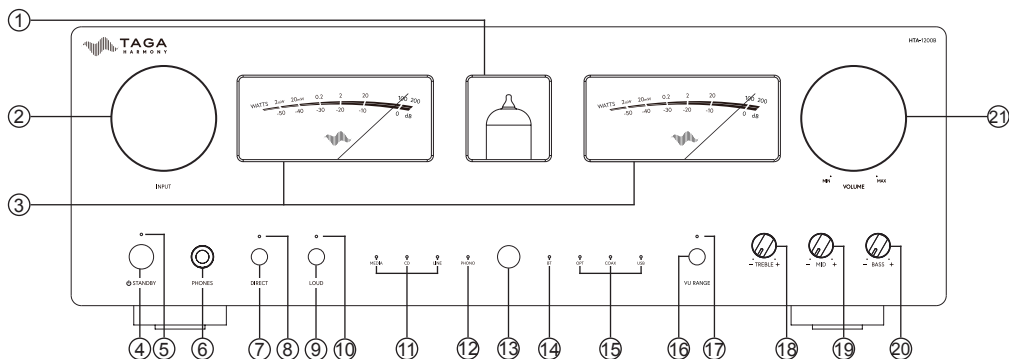
- 23. Standby Button - Power Amplifier (POWER AMP |)

CD Player control (external component)

- 24. Repeat A-B Button (A+B)
- 25. Repeat Play Button (↺)
- 26. Time function Button (⌚)
- 27. Next Button (▶)
- 28. Play/Pause Button (▶||)
- 29. Search Backward Button (◀◀)
- 30. Previous Button (◀)
- 31. Program function Button (P)
- 32. Random (Shuffle) Play function Button (✂)
- 33. Standby Button - CD Player (⏻ CD)
- 34. Open / Close Button (▲)
- 35. Search Forward Button (▶▶)
- 36. Stop Button (■)
- 37. Brightness Higher (CD ☀)
- 38. Brightness Lower (CD ☀)
- 39. Number Buttons (0-9)



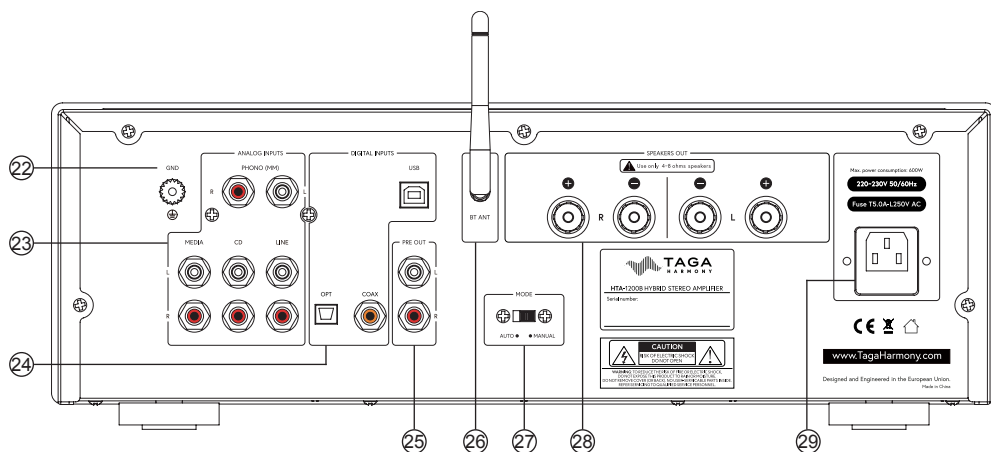
Front and Rear Panel



Front Panel:

1. Vacuum Tube Window
2. Input Selector
3. Power Meters
4. Standby Button (⏻ STANDBY)
5. Power Standby Mode Led Indicator
6. Headphone 6.5 mm (1/4") Output
7. Direct Button
8. Direct Function Led Indicator
9. Loudness Button
10. Loudness Function Led Indicator
11. Analog MEDIA / CD / LINE Inputs Led Indicators
12. Analog PHONO (MM) Input Led Indicator
13. Remote Controller Sensor
14. **Bluetooth®** Input Led Indicator
15. Digital OPTICAL / COAXIAL / USB Inputs Led Indicators
16. VU Range Function Button
17. VU Range Function Led Indicator
18. Treble Regulator
19. Midrange Regulator
20. Bass Regulator
21. Volume Regulator with Volume Change Led Indicator

Front and Rear Panel



Rear Panel:

- 22. Phono Ground Screw - GND
- 23. Analog Stereo RCA Inputs PHONO (MM) / MEDIA / CD / LINE
- 24. Digital Inputs USB / OPTICAL / COAXIAL
- 25. Preamplifier Stereo RCA Output - PRE OUT
- 26. **Bluetooth®** Antenna Socket
- 27. Mode Switch (AUTO and MANUAL)
- 28. Speaker Connectors: Right and Left Channel Output - SPEAKERS OUT
- 29. Power Cable Input and Fuse Box



A blown fuse should be only exchanged for exactly the same type as indicated on the rear panel.

The Power Cable should be disconnected!

Hooking Up Speaker Cables

The Speaker Connectors can accommodate up to 10AWG speaker cables as well as most of popular plugs (banana etc.). It is recommended to leave about 150 cm (5 feet) of extra cable at the amplifier end to facilitate positioning and installation of the amplifier. Do not use staples, nails or other metal objects to secure the cables. You will get the best sound quality and least amount of hum by keeping the cables away from other electrical wires and cables.

Pay attention to connecting the polarity of the amplifier correctly with the speakers in each speaker group (speakers should be connected RED + with RED + amplifier connector, BLACK – with BLACK – amplifier connector).



Before connecting make sure that your amplifier is turned off. Do not let bare speaker wires touch each other or any metal part of this unit it can damage this amplifier and / or speakers. This may void your warranty.

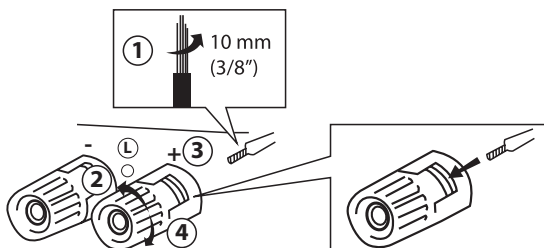
Please refer to your speaker instruction manual for more information.

Connecting speaker cables

Speaker cables have 2 conductors. Each conductors should be connected to a separate speaker connector - mind the polarity while connecting.

For each conductor:

1. Remove approximately 10 mm (3/8") of insulation from the end of the conductor. Twist the bare wires firmly together.
2. Loosen the speaker connector.
3. Insert the bare wires of the conductor into the gap of the speaker connector.
4. Tighten the speaker connector.

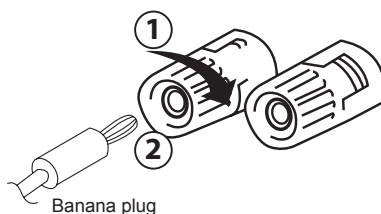


Connecting via banana plug

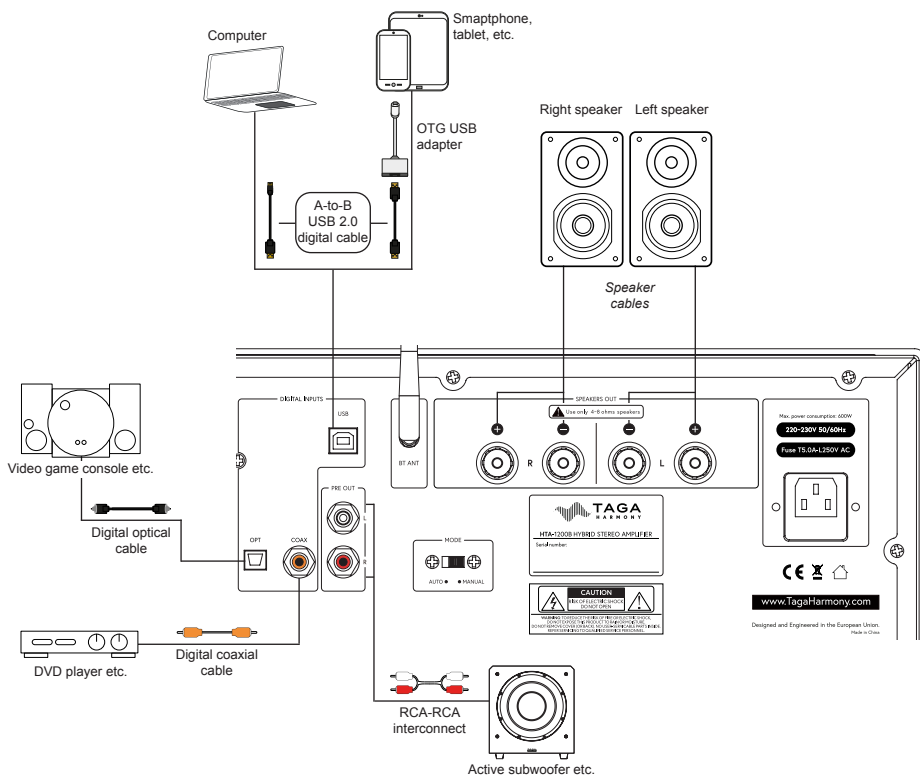
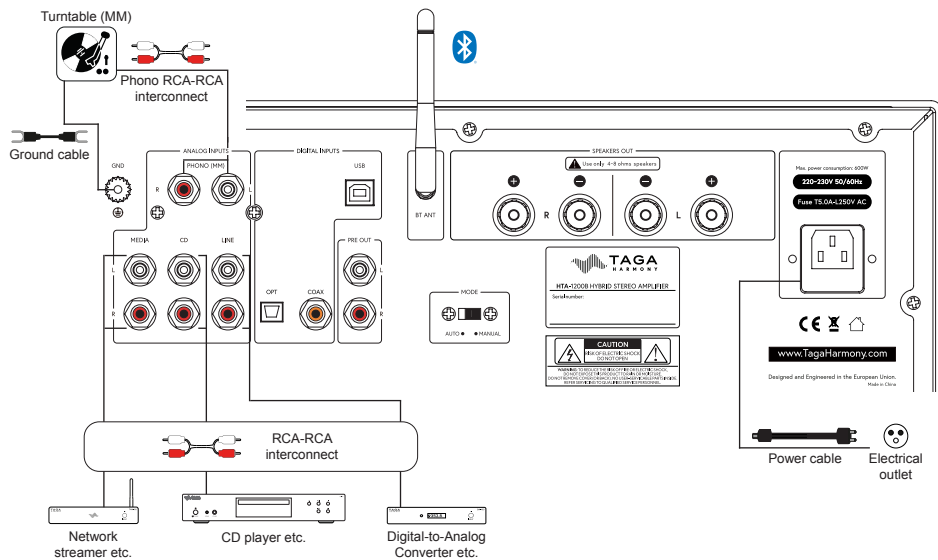
Mind the polarity while connecting.

Note! An insert hole for the banana plug in some speaker connectors maybe secured with a plastic plug - make sure to remove this plastic plug before inserting the banana plug.

1. Tighten the speaker connector.
2. Insert the banana plug into the end of the corresponding connector.



Hooking Up the Amplifier



Hooking Up the Amplifier

Connecting Speakers

Using speaker cables connect your speakers to the SPEAKERS OUT connectors. Check "Hooking Up Speaker Cables" for more details.



Only speakers within the range of impedance 4 - 8ohm may be connected to this Amplifier.

Connecting speakers outside this range may damage this Amplifier and / or speakers.

This may void your warranty.

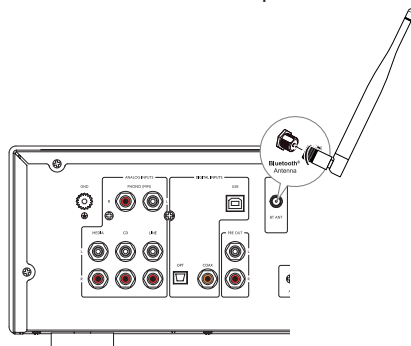
Note! Make sure that the Power Cable is disconnected from the Amplifier and the wall outlet.

Note! Make sure that external equipment which will be connected to the Amplifier is turned off.

Connecting the Bluetooth® Antenna

Screw in the **Bluetooth®** Antenna into the **Bluetooth®** Antenna Socket.

If you want to stream music via **Bluetooth®** from compatible devices check "Play via **Bluetooth®**" for more details.

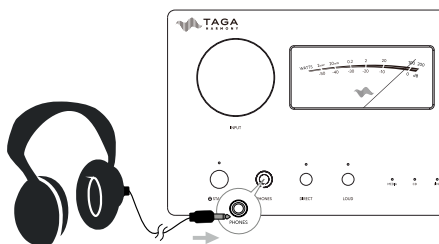


Note! Make sure the antenna is securely and firmly installed - otherwise the **Bluetooth®** connection may not be established or may be unstable.

Connecting Headphones

If you want to listen to music via headphones: using a cable terminated with a 6.35 mm (1/4") jack plug, connect the headphones to the PHONES output.

Check „Headphone connection (PHONES)“ for more details.



Connecting Audio Equipment With Built-In Analog Output

If you want to play music from audio source devices equipped with an analog output (CD player, Satellite tuner, Network streamer, Music player, Smartphone, Laptop etc.) choose the corresponding interconnect cables and connect the devices to the analog inputs (MEDIA, CD, LINE).

Hooking Up the Amplifier

Connecting a Turntable

If you want to play music from a turntable: using a Phono RCA-RCA interconnect connect the turntable to the PHONO input.

Screw in a ground cable of the turntable to the Phono Ground Screw (GND).

The PHONO input is only compatible with turntables equipped with the MM cartridge.

Connecting Audio Equipment With Built-In Digital Output

If you want to play a digital audio source (TV set, CD/DVD player, video game console etc.) depending on a digital output your audio source is equipped with, connect it to one of digital inputs: OPTICAL or COAXIAL.

Use a digital optical cable for the OPTICAL input and a digital coaxial cable for the COAXIAL input.

Connecting Computer to USB input

If you want to play digital audio files from a computer: using a A-to-B USB 2.0 digital cable connect the computer to the USB Port.

Check "Connecting a Computer to the USB port" for more details.

Connecting Mobile Device to USB input

If you want to play digital audio files from a mobile device (smartphone, tablet etc.): using an OTG USB adapter and a A-to-B USB 2.0 digital cable connect the mobile device to the USB Port.

Check "Connecting a Mobile Device to the USB port" for more details.

Connecting Devices to Preamplifier Output

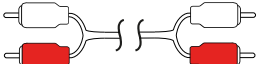
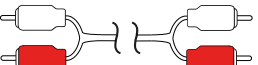
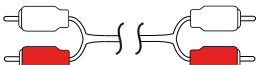
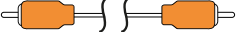
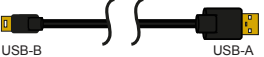
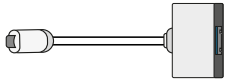
This Amplifier is equipped with the preamplifier output.

Connect your external amplification device (power amplifier, powered speakers, active subwoofer etc.) to the preamplifier output: PRE OUT.

Check „Preamplifier Output Connection (PRE OUT)" for more details.

Hooking Up the Amplifier

External audio equipment connection options:

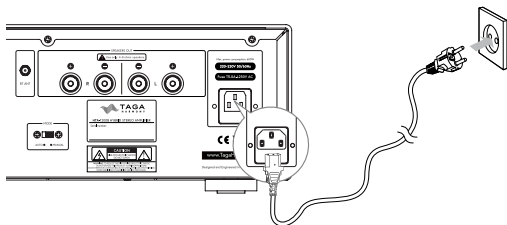
Signal	Input / Output HTA-1200B	Input / Output external equipment	Connection cable
Analog	MEDIA, CD, LINE input 	Output – RCA sockets 	RCA-RCA interconnect (not supplied) 
	PHONO (MM) input  Phono Ground Screw 	Phono output RCA sockets Turntable (MM)  Phono Ground 	Phono RCA-RCA interconnect (not supplied)  Ground cable (not supplied) 
	PRE OUT Preamplifier output 	Preamplifier RCA input 	RCA-RCA interconnect (not supplied) 
Digital	OPT input 	Optical output socket 	Optical cable (not supplied) 
	COAX input 	Coaxial output socket 	Coaxial cable (not supplied) 
	USB port - type B 	USB port - type A 	A-to-B USB 2.0 digital cable (not supplied)  USB-B USB-A
		Mobile device socket ex.: USB type C 	OTG USB adapter (not supplied)  USB-C USB AF

The sockets shown for external equipment and connection options may differ depending on the device.

Operation

Connecting to the Electrical Outlet

Plug the Power Cable to the Amplifier and into the electrical outlet.



Your Amplifier is ready for operation.

Note! Check “Additional Information” for other useful operating instructions.

Standby Mode

When you connect the Amplifier to the electrical outlet, it will start in the Standby mode.

- Press the **Standby** ⏻ button to switch the Amplifier on.
- The Amplifier will need approximately 10 seconds to preheat the tubes. After the process is finished then it will switch to the last selected input.



At the initial stage, noises may be heard from inside the unit. This is normal and related to the device initialization process (charging the capacitors and preheating the tubes).

- Press the **Standby** ⏻ button to switch the Amplifier back to the Standby mode. The Power Standby Mode Led Indicator will be illuminated.

INPUT selection

You may select which audio input (source) you want to play in different ways:

- By rotating the INPUT regulator (clockwise or counter-clockwise) on the front panel.
- By pressing one of the function buttons on the remote controller.
- By pressing INPUT selector button (→) on the remote controller.

Sequence of changes when using the INPUT selector button:

MEDIA → CD → LINE → PHONO → BT → OPTICAL → COAXIAL → USB → MEDIA

The selected input will be indicated by one of the Inputs Led indicators.

Make sure the audio source is properly connected to the Amplifier and configured.

Operation

Sound Control

VOLUME (🔊) regulation:

By using the **VOLUME** Regulator or the 🔊 + and 🔊 - buttons you can adjust the sound volume from minimum to maximum.



Too high volume level may result in deterioration of sound quality and distortion, which may damage the Amplifier and / or connected devices.

This may void your warranty.

If you hear distortion or notice that the speakers are not working normally, turn down the volume immediately.

MUTE (🔇):

During the playback press this button to stop the Amplifier audio output (no sound will be audible in speakers, headphones nor through the PRE OUT).

The Led indicator of the Volume Change and selected input will start blinking.

Press the 🔇 button again or change the volume by the remote controller to recover the audio signal output back.

DIRECT (🔊):

The DIRECT function omits the TREBLE, MID and BASS circuit to provide the purest sound.

The function is controlled by the **DIRECT** and 🔊 buttons.

DIRECT ON - the Direct Function Led Indicator is illuminated.

DIRECT OFF - the Direct Function Led Indicator is switched off.

The DIRECT function will not affect the operation of LOUDNESS.

LOUDNESS (🔊):

The LOUDNESS function boosts low and high frequencies - it is intended only to be used at low listening levels.

The function is controlled by the **LOUD** and 🔊 buttons.

LOUDNESS ON - the Loudness Function Led Indicator is illuminated.

LOUDNESS OFF - the Loudness Function Led Indicator is switched off.



Using the LOUDNESS function at high volume levels may damage this Amplifier and / or connected devices.

This may void your warranty.

VU RANGE:

The VU RANGE function is designed to enhance the movement range of the Power Meters at low listening levels, providing improved visual feedback.

The function is controlled by the **VU RANGE** button.

VU RANGE ON - the VU Range Function Led Indicator is illuminated.

The movement range is increased by approximately tenfold (x10).

VU RANGE OFF (Normal range) - the VU Range Function Led Indicator is switched off.



Using the VU RANGE function at high listening levels may reduce the lifespan of the Power Meters. This function should be used only at low listening levels.

Operation

Memory for DIRECT, LOUDNESS and VU RANGE functions:

After the Amplifier is switched off, the last settings of the DIRECT, LOUDNESS and VU RANGE functions will be stored and retrieved after switching on the Amplifier.

TREBLE regulator:

You can adjust treble output of the Amplifier.

The default: the knob is in the center position: the marker on the knob in the vertical position.

Turn the knob counterclockwise (-) to decrease the amount of high frequencies.

Turn the knob clockwise to increase the amount of high frequencies (+).

Treble regulation range: 10kHz $\pm$ 6dB

MIDRANGE regulator (MID):

You can adjust midrange output of the Amplifier.

The default: the knob is in the center position: the marker on the knob in the vertical position.

Turn the knob counterclockwise (-) to decrease the amount of mid frequencies.

Turn the knob clockwise to increase the amount of mid frequencies (+).

Midrange regulation range: 1kHz $\pm$ 6dB

BASS regulator:

You can adjust bass output of the Amplifier.

The default: the knob is in the center position: the marker on the knob in the vertical position.

Turn the knob counterclockwise (-) to decrease the amount of low frequencies.

Turn the knob clockwise (+) to increase the amount of low frequencies (+).

Bass regulation range: 100Hz $\pm$ 6dB



Using the TREBLE / MID / BASS regulation at high volume levels may damage this Amplifier and / or connected devices.
This may void your warranty.

BACKLIGHT of Power Meters / Vacuum Tube Window (☼):

The BACKLIGHT function is used to switch on and off the backlight of the Power Meters / Vacuum Tube Window. The function is controlled by the ☼ button.

If the backlight of the Power Meters / Vacuum Tube Window is switched on, then press the ☼ button to switch it off.

Press the ☼ button again to switch on the backlight.

Note! After the Amplifier is switched off, the last setting of the Backlight function will be stored and retrieved after switching on the Amplifier.

Operation

Preamplifier Output connection (PRE OUT):

This Amplifier is equipped with the preamplifier output, which allows connecting amplification or recording equipment such as a power amplifier, powered speakers, active subwoofer or a CD recorder.

The audio signal from the preamplifier of this device is directed to the PRE OUT output and its level is variable controlled by the Volume Regulation.

All sound adjustments (DIRECT / LOUDNESS / TREBLE / MID / BASS) will affect the sound transmitted to the preamplifier output.

Headphone connection (PHONES):

When headphones are plugged to the headphone output (Phones) the transmission of sound to the speakers and to the Preamplifier Output is switched off.

The speakers and the Preamplifier Output will be active again after disconnecting the headphones.

The volume of the headphones is regulated by the Volume Regulation.

All sound regulations (DIRECT / LOUDNESS / TREBLE / MID / BASS) will affect the sound transmitted to the headphones.

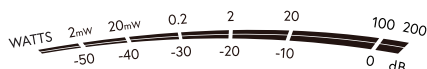


Listening at high volume may cause hearing damage.

Power Meters:

The Power Meters show the highest instantaneous power level in watts and decibels of the left and right channel at 8Ω load.

When driving speakers rated at 4Ω, the output is approximately twice than shown on the Power Meters.



Note!

- At low volume levels, the meters may not respond, which is normal behavior. You may use the VU RANGE function to enhance the movement range of meters at low listening levels.
- The left and right channel meter readings may vary depending on the audio material being played and minor differences within the meters' calibration tolerances.
- The values displayed on the meters are approximate readings and are not suitable for professional measurement or critical evaluation.

Operation

Automatic Standby Mode (MODE):

The Amplifier offers two modes of switching to the Standby mode.

AUTO

To save energy, the Amplifier will automatically switch to Standby within up to 20 minutes of no audio signal.

Note! In some cases, this mode may not be activated.

ON

The AUTO mode is disabled, and the Amplifier will remain powered ON.

The Amplifier must be switched to Standby manually.

TAGA Harmony other Components control via the Remote Controller

The Remote Controller may control certain functions of selected TAGA Harmony components.

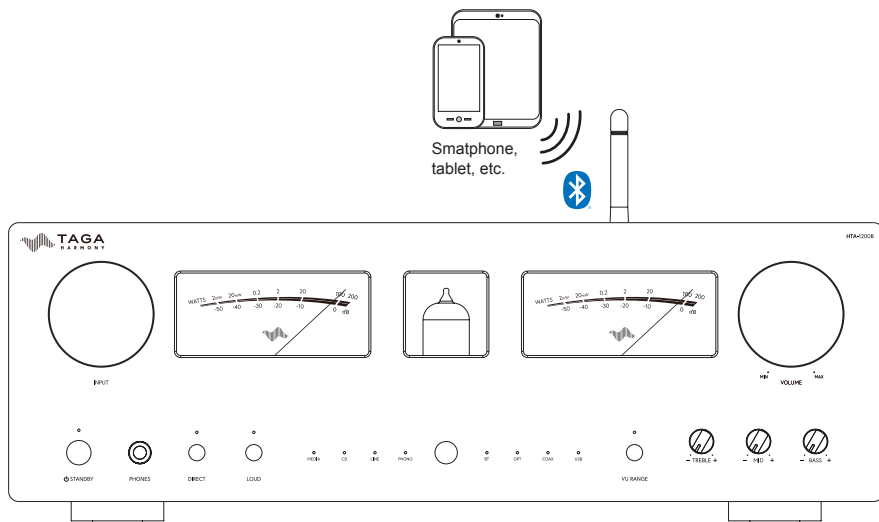
Information about compatibility is available on a product page of a given component on **www.Tagaharmony.com**.

Note! The operation of functions of other compatible components using the Amplifier Remote Controller may not fully comply with the operation of the original functions designed for these components.

Note! Check a component instruction manual for detailed information about each function and its operation.

Power amplifiers	Standby mode: ON and OFF
CD players	⏻ CD Standby mode: ON and OFF. Note! For some models, you will need to hold the button down for a longer period.
	⌚ Time display
	▲ Open / Close disc tray
	A↔B Repeat A-B
	↺ Repeat ALL / ONE / OFF
	✂ Shuffle play
	▶ Play / Pause
	■ Stop playback
	▶ Next track
	◀ Previous track
	▶▶ Search forward for intended position on a track
	◀◀ Search backward for intended position on a track
	CD ☀ Brightness Higher
	CD ☀ Brightness Lower
	0-9 direct file selection on a CD disc. For a 2-digit number press one button and in a short time the second one. For instance: to select file number 12, press 1 and then 2 etc.

Play via *Bluetooth*®



Select the BT input.

1. As long as the same audio source device is being used with the Amplifier, pairing needs only to be done once.
2. If no audio source device is paired and connected with the Amplifier then the BT Input Led Indicator will start blinking.
3. Activate and select **Bluetooth**® on your audio source device (smartphone, laptop etc.) and start scanning for available **Bluetooth**® devices.
4. After a short time “HTA-1200B” will appear on the screen of your audio source.
5. Select “Pair” on your audio source device to connect with the Amplifier. After connection is successful, the BT Input Led Indicator will stop blinking.
Note! For elder audio source devices, you may need to input “0000” as a pairing password.
Note! Some audio source devices may not be compatible.
6. The Amplifier will now be ready to play your music wirelessly within a range of approximately 5 meters.
Start playback on your audio source device.

Note! Please refer to your audio source user instruction for details on operating the **Bluetooth**®.

Control from the Amplifier

You may control the playback on your audio source device and for basic functions from the Amplifier.

Note! Not all audio sources may be controlled by the Amplifier.

- To pause / resume play, press **⏮**.
- To skip to a next file, press **⏭**.
- To skip to a previous file, press **⏪**.

Play via *Bluetooth*®

Resetting Current *Bluetooth*® Connection and Pairing History (RESET)

1. The RESET function only works in the BT input.
 2. Disconnecting active **Bluetooth**® connection:
 - Short press the RESET button to pair or connect a new audio source device. The BT Input Led Indicator will start blinking.
 3. Resetting pairing history.
 - Press the RESET button for approximately 4 seconds or longer to clear the **Bluetooth**® connected history.
- Note!** It resets all data of paired devices and pairing will have to be performed again.

Important Notes - *Bluetooth*® Connection

1. When you move away from the working range of the Amplifier **Bluetooth**® receiver, the current **Bluetooth**® connection will be lost and you will have to reconnect it.
2. When you want to use another **Bluetooth**® audio source than currently active, you have to disconnect the active connection and start the **Bluetooth**® connection or pairing procedure.
3. Make sure the antenna is securely and firmly installed, and that there are no objects placed between an audio source and the Amplifier obscuring the **Bluetooth**® signal which may result in unstable or no connection.

Note! The above listed functionality may vary on different **Bluetooth**® audio sources (smartphones, computers or other compatible devices).

For some audio source devices it may take a shorter or longer period of time to reconnect to the Amplifier or it may even require to repeat the pairing procedure each time the **Bluetooth**® connection is lost.

Note! If your **Bluetooth**® audio source is not able to find the “HTA-1200B” **Bluetooth**® device or connect to it then switch off the amplifier, wait at least 60 seconds and after the Amplifier is switched on, Reset Pairing History and repeat the pairing procedure.

Connecting a Computer to the USB port



Computer devices generate a significant amount of noise and interference which can get through USB ports to this Amplifier. If you hear disturbing noise and interference in speakers or headphones when using the Amplifier's USB input then it may mean that your computer device is tend to the above mentioned problem. In such a case we recommend to use a USB data and power noise filter (not supplied with this product) which should be plugged between the computer device and the A-to-B USB 2.0 digital cable, which is connected to the Amplifier.

Computers with Windows®

1. We recommend installing the device driver.

Note! For lower sample rates and for some Windows® operating system versions the driver may be not required.

System requirements: At the time of writing this instruction manual, the driver was tested with Windows® 10 and 11.

Minimum hardware requirements: Intel Core 3 processor, 8GB RAM, USB 2.0 port

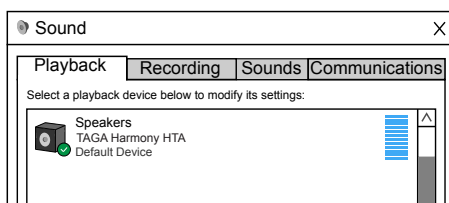
- The driver package as a compressed zip file is available for download on www.TagaHarmony.com on a page of this product, or by e-mail after contacting us at support@tagaharmony.com

- After downloading extract the files from the zip file.

- Run the installation file and follow the installation instructions on the screen.

2. The computer should recognize the amplifier as “TAGA Harmony HTA” and automatically apply it as the audio output device.

You can check the setting through the Control Panel → Hardware and Sound → Sound → Manage Audio Devices.



If the “TAGA Harmony HTA” is not selected then locate and highlight it and click “Set Default”.

To enjoy the best sound quality, we suggest to change a default format (bit and sample rate) to the highest available.

Note! If there is a problem with the playback - lower the default format – right-click on the “TAGA Harmony HTA” device, choose Properties and then Advanced tab and change Default Format.

Connecting a Computer to the USB port

Note! If there is any problem with recognizing the Amplifier by the computer disconnect and reconnect the A-to-B USB 2.0 digital cable.

Installation and Setup to play 32bit / 768kHz and DSD files (Windows®)

There are different programs available that allow to play music from high-resolution files.

You can use a freeware PC music player for Windows® to play files using, for instance “foobar2000”.

1. Download “foobar2000” from <https://www.foobar2000.org/> and install it.
2. Download the following components and install them in the

Preferences → Components

Follow the installation instructions. After installing each component or choosing an option, click **Apply** to activate it.

Components:

- * ASIO+DSD Output - foo_out_asio+dsd.fb2k-component
- * Super Audio CD Decoder - foo_input_sacd.fb2k-component

The components are available on:

<https://www.foobar2000.org/components>

<https://sourceforge.net/projects/sacddecoder/files/>

Separately install ASIO Proxy – “ASIOProxyInstall-0.9.4.zip” using an installer file available on:

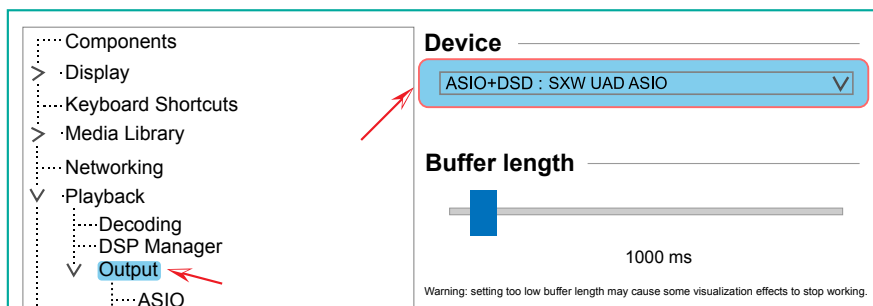
https://sourceforge.net/projects/sacddecoder/files/foo_dsd_asio/

Note! The playback was tested with **foobar2000 version 2.25.9** and the following versions of components:

- * ASIO+DSD Output - foo_out_asio+dsd.fb2k-component version 0.4.7
- * Super Audio CD Decoder - foo_input_sacd.fb2k-component version 2.0.24
- * ASIO Proxy for foobar2000 ASIOProxyInstall-0.9.4.exe version 0.9.4

3. After restarting the foobar2000.

- a. Go to Preferences → **Playback** → **Output** and select **ASIO+DSD : SXW UAD ASIO** in the **Device** section.

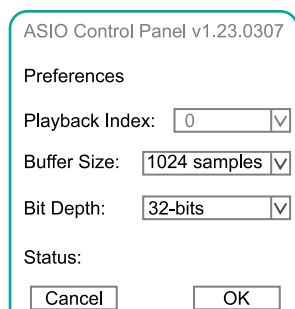
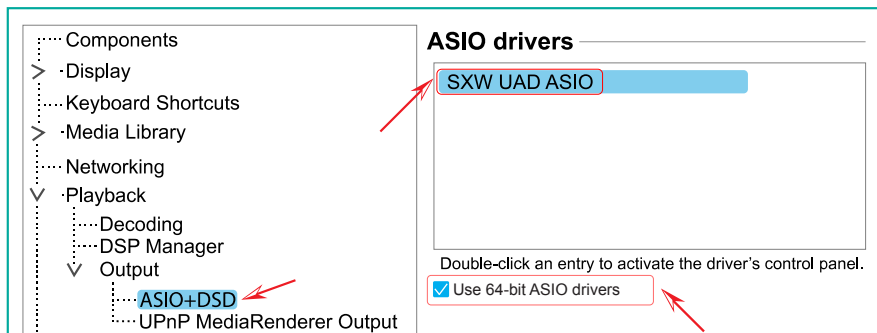


Connecting a Computer to the USB port

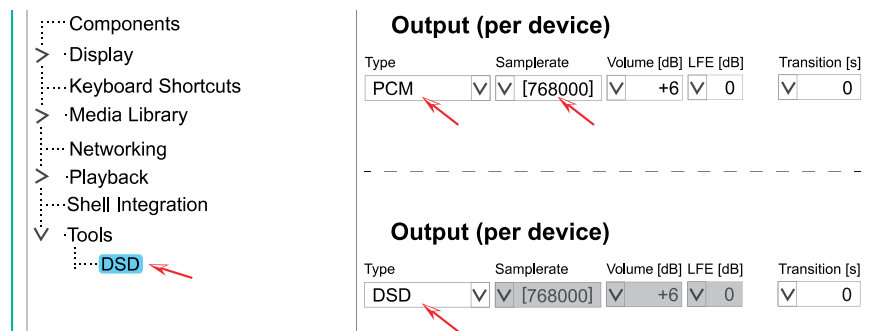
b. Go to Preferences → **Playback** → **Output** → **ASIO+DSD**

- Double click on **SXW UAD ASIO** in the **ASIO drivers** section.

The **ASIO** Control Panel will appear. If its settings do not match those shown below, configure them accordingly.



c. Go to Preferences → **Tools** → **DSD** and choose the desired output format from the available options in **Output (per device): TYPE** → PCM (**Samplerate** [768000]) or DSD.



Note! Operation and user interface may vary depending on your Windows® and other software versions.

Connecting a Mobile Device to the USB port

Some mobile devices, compatible with the OTG (on the go) feature, may be compatible with this Amplifier.

When connected to a mobile device, the Amplifier will work as earphones (usually the sample rate for the output is 44.1kHz PCM).

In order to play high resolution files ex.: DSD, you need to download and install a relevant application on your mobile device.

Note! To ensure a proper operation of the Amplifier with a mobile device, make sure you use a good quality OTG USB adapter.

Trademarks and Software Notice

All trademarks and trade names used in this manual are those of their respective owners.

- **Bluetooth®** is a registered trademark of Bluetooth SIG, Inc.
- **Qualcomm® aptX™** is a product of Qualcomm Technologies, Inc. and/or its subsidiaries.
Qualcomm® is a trademark of Qualcomm Incorporated, registered in the United States and other countries.
aptX™ is a trademark of Qualcomm Technologies International, Ltd., registered in the United States and other countries.
- Windows® is a registered trademark of Microsoft Corporation in the United States and/or other countries.

Third-party applications and software recommended in this manual are provided for your convenience only and should be used at your own risk.

TAGA Harmony does not provide technical support for third party software and does not guarantee their proper operation.

Additional Information

Break-In

Your TAGA Harmony Amplifier sounds great immediately after it is taken out of the carton but as all hybrid amplifiers, this Amplifier requires a “break-in” period to reach its full sonic capabilities.

During the “break-in” period it is recommended to operate the Amplifier at moderate volume levels.

The first level of the “break-in” is reached after approximately 10 hours of play.

The optimal level of the “break-in” is reached after approximately 40 to 60 hours of play.

It is recommended to avoid one-time short periods of operation unless the Amplifier reaches the first “break-in” level. When the Amplifier is turned on, it should operate for around 4-6 hours.

Turn off procedure



If the Amplifier was turned off even for a short period of time, you should wait at least 2 minutes before turning it back on. Do not turn it ON then OFF and then ON again in quick succession.

Follow this procedure each time you turn your Amplifier OFF / ON.

This precaution will minimize the stress (high voltages) on internal components.

Vacuum tubes - noise floor and interferences

It is a normal phenomenon for a Amplifier equipped with vacuum tubes to produce significant amount of noise (called noise floor or self-noise) which can be audible in speakers and headphones (in one or both channels).

Devices equipped with vacuum tubes are more prone to various types of interferences generated by nearby electronic equipment – try to eliminate such a problem by moving this product away from the source of interference or trying to power it from a different power line than other equipment (e.g. from a power outlet in another room).

Vacuum Tube Replacement

The lifetime of vacuum tubes may vary and depends on their operation time and ambient temperature, playback volume levels and the number of on and off cycles. Replacement vacuum tubes are not supplied with this product.



The warranty time for vacuum tubes is shorter than for other components of this device - for more details check your warranty terms or contact a local dealer.



The vacuum tubes are installed inside the device and should be replaced only by qualified service personnel.



The vacuum tubes should only be replaced with models factory-installed for this product or their direct equivalents.

Additional Information

Power transformer – Power filters and conditioners

It is a normal phenomenon that the device's power transformers may generate a certain amount of audible noise.
Very loud operation of the power transformers may be caused by low quality of power supply (voltage surges etc.).
In such a case, we suggest using a power filter or conditioner - you can also try to power this product from a different power line than other devices (e.g. from a power outlet in another room).

Kit Content

Kit Content:

Amplifier	1 EA
Remote Controller	1 EA
Bluetooth® Antenna	1 EA
Power Cable	1 EA
Instruction Manual	1 EA

Specifications

We strongly advise to contact a professional installer or dealer in order to install TAGA Harmony products.
We recommend using high quality TAGA Harmony cables and other installation accessories.

Specifications

Vacuum tubes	1 x Bejing 6N2 2 x Bejing 6N2 (inside)
Power output / impedance	2 x 120W 8Ω 2 x 180W 4Ω
DA converter	USB input: CT7601PR + ES9038Q2M asynchronous PCM up to 32bit/768kHz DSD up to DSD512* * Windows® supports DSD Native and DoP. Optical & Coaxial inputs: PCM up to 24bit/192kHz
Wireless connectivity	Bluetooth® v5.0 Codecs: aptX HD, aptX, SBC
Digital inputs	USB (port B), Optical, Coaxial
Analog inputs	Media, CD, Line Phono (MM) • Input impedance: 47KOhms/120pF • Gain: 40dB • Input voltage: 5mV @ 1kHz • THD: <0.5% • SNR: 72dB
Analog outputs	RCA Pre-Out
Headphone output	Impedance: 32-320Ω Output power: 1W, 160Ω
Frequency response	20Hz - 25kHz (±0.5dB)
Total Harmonic Distortions	0.05%
Signal/Noise ratio	93dB
AC power / power consumption	220-230V 50/60Hz Power consumption: Max: 600W Normal operating mode (average): <600W Standby mode: <0.5W
Dimensions (H x W x D)	14.8 x 43 x 39 cm (including feet, front knobs and rear speaker terminals / antenna)
Weight	14 kg / pc.

We reserve the right to change the technical data and the design of the product without notice as a result of further development.

EU declaration of conformity

	Your product is marked with the symbol shown on the left. As its manufacturer, hereby we declare that the product is in compliance with the following EU directives and regulations: 2014/53/EU (RED) & 2009/125/EC (ErP) & 2015/863/EU (RoHS) The full text of the EU declaration of conformity is available from the manufacturer.
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Disposal of the product

	Disposal of old electrical & electronic equipment (applicable in the European Union and other countries with separate collection systems) This symbol on the product or on its literature and packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the appropriate collection point for the recycling of electrical and electronic equipment. By ensuring that this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health, which could be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local government office, your household waste disposal service or the shop where you purchased the product.
	Disposal of waste batteries (applicable in the European Union and other countries with separate collection systems) This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbol for lead (Pb) is added if the battery contains more than 0.004 % lead. By ensuring that these batteries are disposed of correctly, you will help to prevent potentially negative consequences for the environment and human health which could be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources. In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the appropriate collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the appropriate collection point for the recycling of waste batteries. For more detailed information about recycling of this battery, please contact your local government office, your household waste disposal service or the shop where you purchased the product or battery.

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