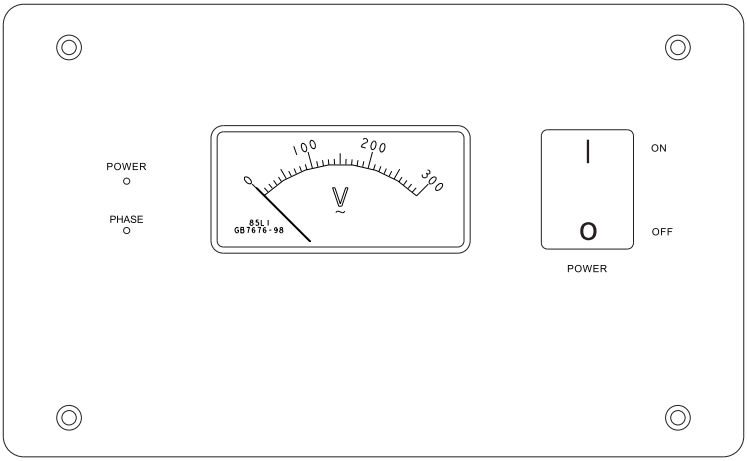
PC Series [230V]

POWER LINE CONDITIONER
FOR USE WITH AUDIO-VIDEO EQUIPMENT



Instruction Manual

Edition 12-2021

Introduction

Thank you for purchasing this TAGA Harmony power line conditioner.

The electricity network in our homes or workplaces is exposed to different interferences for instance electromagnetic interference (EMI) generated by appliances connected to the same network (refrigerators, air conditioners, computers etc.). These interferences are not only produced inside your house or office but by all appliances in your building or even outside it and can differ on the time of day or week when the traffic on the electrical network changes.
All these interferences which we call noises can get into your AC power and interfere with your system.
This “dirty” electricity can have a negative effect on performance of your audio-video system.

TAGA Harmony power line conditioner is a next level, effective and reliable protection against voltage fluctuations and line disturbances (noises) which can negatively impact your audio-video system.

Thanks to our PC power line conditioners you will be able to enjoy a better quality of your audio and video equipment.
The contaminated electricity has also a negative impact on internal circuits and power supplies of your equipment and because the PC conditioner works as a buffer between the wall socket and your gear it will help to increase the longevity of the connected components.

Features:

- **Independent groups of switched and unswitched power sockets** (Schuko type) specifically designed for use with different audio and video equipment.
- **Voltage Indicator** (selected models) to control stability of the power voltage in the wall outlet.
- **Phase detection** indicates the incorrect power phase and the Polarity Switch allows to easily correct it.
- **Diversified duplex filtering** based on a high-quality Class-X capacitors and inductors.
- **High power toroidal transformer** to isolate equipment from the line noise.
- **Spike and surge protection** to protect against everyday high energy spikes and transient voltages.
- **Primary lightning surge protection** to protect of the load equipment from effects of high transient over-voltages following a lightning strike (introduced indirectly into the utility mains).
- **The removable Schuko-IEC C13 power cable** gives an option to upgrade the system with a premium audiophile power cable in any time.

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

Specifications
Full technical specifications are available on the **www.TagaHarmony.com** website.

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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.

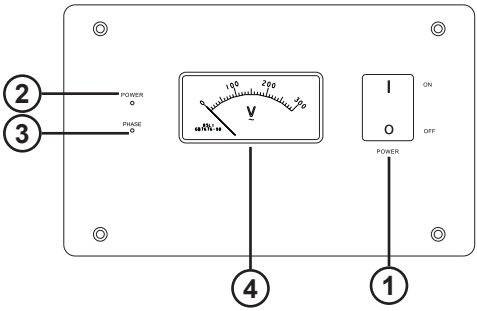
Safety Instructions

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 lighting 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. [Refer 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).

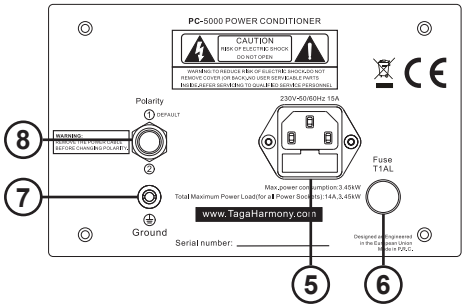
Controls and Displays

/PC-5000 model shown/

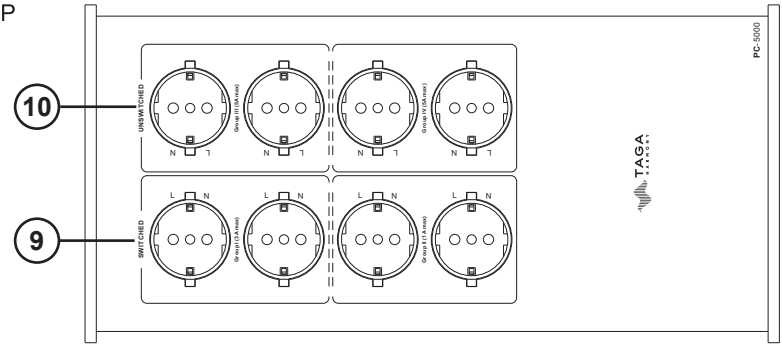
FRONT



REAR



TOP



FRONT

1. Power Switch (ON and OFF)
2. Power Indicator
3. Phase LED Indicator
4. Voltage Indicator Display

REAR

5. Power Cable Input and Fuse Box
6. Fuse Box

> Blown fuses should be only exchanged for the same types as indicated on the rear conditioner panel above the Power Cable Input and above the Fuse Box.
> The Power Cable should be disconnected!

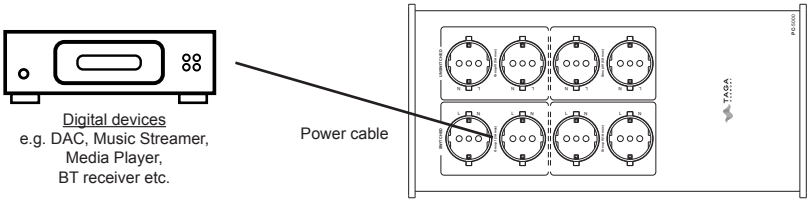
8. Ground Screw
9. Polarity Switch

TOP

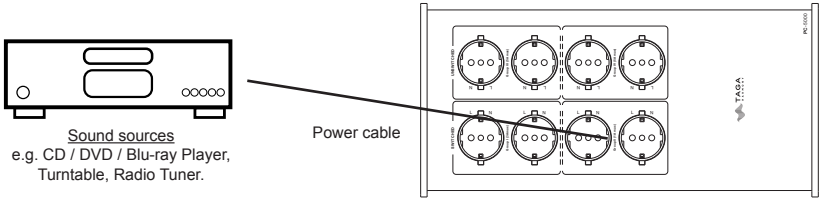
9. Switched Power Sockets
   - **Group I** recommended for digital equipment.
   - **Group II** recommended for sound sources.
10. Unswitched Power Sockets
   - **Group III** recommended for preamplifiers / accessories.
   - **Group IV** recommended for amplifiers.

Hooking Up the Conditioner and Operation

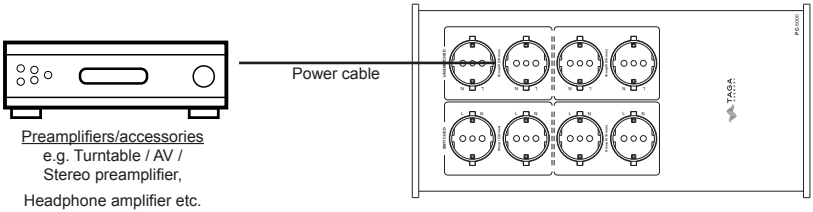
Group I



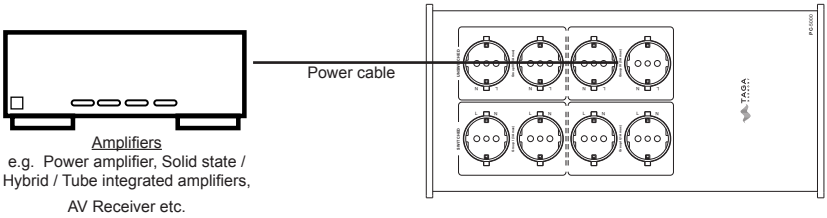
Group II

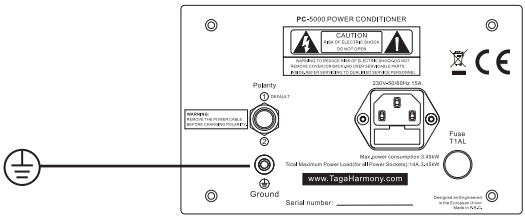


Group III



Group IV

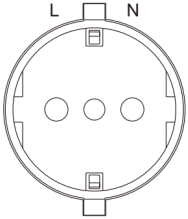




Hooking Up the Conditioner and Operation

Phase Detection

A. Make sure that the Polarity Switch is set on 1 (default). It means that the female contacts in the Power Sockets have polarity according to the L and N marking on the top panel of the conditioner.



B. Without connecting any external equipment plug the Power Cable to the conditioner and into the electrical outlet.

The **Phase Detection** is not related to the Power Switch and is always active when the conditioner is connected to the electrical outlet.

C. The **Phase LED Indicator** WILL ILLUMINATE when the phase is INCORRECT.
If the phase is incorrect then:
d1- Remove the Power Cable from the electrical outlet;
d2- Set the Polarity Switch to 2;
Setting the Polarity Switch to 2 will exchange the polarity in the Power Sockets of the conditioner (L → N and N → L).
Make sure to consider this when connecting the external equipment.
d3- Connect the Power Cable to the electrical outlet;
d4- The Phase Indicator should not be illuminated - the phase is correct.

Never operate this switch when the conditioner is connected to the electrical outlet – this may damage the conditioner and/or connected devices – this may void your warranty.
Make sure to disconnect the Power Cable before operating the Polarity Switch!

D. If your audio-video equipment has the polarity marking (L/N) make sure to connect correctly the equipment power cable plug to the power line conditioner according to the polarity marking.

Connecting audio-video equipment

2. Make sure the conditioner is turned off (the Power Switch is in the down OFF position and the Power Cable is removed).
3. Using power cables (only a power cable for the conditioner is supplied with this product) connect your audio-video equipment to the Power Sockets following the Phase Detection recommendations.
   Follow the below recommendations for connections:

Hooking Up the Conditioner and Operation

RECOMMENDATIONS FOR CONNECTING EQUIPMENT TO THE POWER SOCKETS

	SWITCHED POWER SOCKETS active with the Power Switch in position 1 (ON)		**UNSWITCHED POWER SOCKETS** always active when connected to an electrical outlet	
Power socket group	**GROUP I** low-power inductance filtering	**GROUP II** low-power inductance filtering, isolated by the power transformer	**GROUP III** high-power inductance filtering	**GROUP IV** high-power inductance filtering
Recommended devices for the group	Digital devices e.g. DAC, Music Streamer, Media Player, BT receiver etc.	Sound sources e.g. CD / DVD / Blu-ray Player, Turntable, Radio Tuner.	Preamplifiers/ accessories e.g. Turntable / AV / Stereo preamplifier, Headphone amplifier etc.	Amplifiers e.g. Power amplifier, Solid state / Hybrid / Tube integrated amplifiers, AV Receiver etc.

Note! Group II is specially designed for sound sources.
Do not connect other equipment to the Power Sockets in this group.

4. Grounding is recommended for this conditioner. Using a solid, insulated cable (not supplied with this product) connect the Ground Screw with the ground source in a room.
5. Your conditioner is ready for operation.
6. Plug the Power Cable to the conditioner and into the electrical outlet.
7. Whenever the power line conditioner is connected to the electrical outlet which is properly working the **Voltage Indicator** will be displaying approximate current voltage in Volts.
   Note! The results of Voltage Indicator measurement accuracy are highly approximate and should not be taken into account for the professional assessment of the power line quality.
8. Turn on the conditioner (the Power Switch should be in the upper ON position). It is not required if you want to use audio-video equipment connected to the Unswitched Power Sockets.

Turn on your audio-video equipment and enjoy your system.

The recommendations for connecting audio-video equipment to the indicated power sockets may not be the optimal solution for all devices.
To determine the power supply option for a given device that will provide the best quality of its operation, we suggest empirical tests by connecting the device to the different Power Socket groups, minding the restriction for group II sockets.

Hooking Up the Conditioner and Operation

IMPORTANT SAFETY REMARKS!

- This unit requires a single-phase 3-conductor electrical outlet.
- We recommend to use Schuko plugs in all power cables.
- Make sure not to overload the power line conditioner and individual groups of Power Sockets.

Power load for each group of Power Sockets: the total maximum power consumption for all connected devices to a given group should not exceed the maximum power load for this group.
The maximum load for each group is given in Amperes (A) in a bracket following the group number printed on the conditioner: it is also available in the specifications on **www.TagaHarmony.com**
Total maximum power load: the total maximum power consumption for all connected devices to the conditioner should not exceed the maximum power load for this conditioner.
The total maximum power load for this conditioner is given in Kilowatts (kW) or Watts (W) on the rear panel of the conditioner : it is also available in the specifications on **www.TagaHarmony.com**

INCORRECT PHASE

At the date of this instruction manual, there is no unified standard in most European Union countries determining the position of the Live (L) and Neutral (N) wires in an electrical outlet.
The term „incorrect phase" is an expression used in this manual only in relation to this device to determine the L and N positions in the output power sockets of the power conditioner.

POWER CABLES AND PHASE

The Live (L) and Neutral (N) wires in various power cables may be internally connected between the cable plug and the connector in a different way.
If the Phase LED Indicator changes its status after the factory provided Power Cable is swapped for another one, it is not a malfunction but a symptom that the new power cable has a different internal connection as above-mentioned.

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.

Kit Content:

Powe Line Conditioner	1EA
Power Cable	1EA
Instruction Manual	1EA

CE	Your product is marked with the symbol as showed on the left. For EU (European Union) member users: This product has been tested and found in compliance with requirements of the European Community 2014/30/EU (EMC) & 2014/35/EU (LVD) directives.

	IMPORTANT! Your product is marked with the symbol as showed on the left. For EU (European Union) member users: According to the WEEE (Waste electrical and electronic equipment) Directive, do not dispose of this product as household waste or commercial waste. Waste electrical and electronic equipement should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.

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