

USER MANUAL

RevA 10-2015

RPL-1000

POWER CONDITIONER | RACKLIGHT | USB CHARGER

Welcome

Thank you for choosing Hill Audio for your sound system. To make sure that this product meets your expectations and provides long-term, reliable performance, please read and follow this instruction manual carefully.

Manual Language

UK	This user manual is written in English. For other languages, visit	www.hill-audio.com
FR	Ce guide est écrit en anglais. Pour les autres langues, visitez:	www.hill-audio.com
DE	Diese Anleitung ist in Englisch verfasst. Für andere Sprachen:	www.hill-audio.com
ES	Este manual está escrito en Inglés. Para otros idiomas, visite:	www.hill-audio.com
PT	Este manual está escrito em Inglês. Para outros idiomas, visite:	www.hill-audio.com
IT	Questo manuale è scritto in inglese. Per altre lingue, visitare:	www.hill-audio.com

Important safety instructions

- Read these instructions and all markings on the product. Keep these instructions.
- Heed all warnings and instructions, both in this manual and on the product.
- Clean only with a dry cloth. Unplug from AC supply before cleaning.
- Do not use this product near water and avoid any exposure to water.
- Before connecting this product to any AC supply, make sure to check whether the AC mains voltage and frequency match the indication on the product and its packaging.
- Only connect this product to an AC supply with sufficient power handling, protective earth connection, ground-fault (earth-fault) protection and overload protection.
- Disconnect the product from the AC supply during thunderstorms or longer periods of being unused.
- Make sure any heat sink or other cooling surface, or any air convection slot, is exposed sufficiently to free air circulation and is not blocked.
- Do not operate this product in environmental temperatures exceeding 35 degrees Celsius and/or 85% relative humidity.
- Position the product in a safe and stable place for operation, out of reach of unauthorized persons.
- Make sure any cable connections to and from the product are neither subject to potentially destructive mechanical impact nor present any risk of stumbling or other accident risk to people.
- Audio equipment may generate sound pressure levels sufficient to cause permanent hearing damage to persons. Always start up at low volume settings and avoid prolonged exposure to sound pressure levels exceeding 90 dB.
- Do not open this product for service purposes. There are no user-serviceable parts inside. Warranty will be void in any case of unauthorized service by the user or other not authorized persons.
- Take any precaution required by local law, applicable regulations or good business practice to avoid injury of people or material damage by use of this product.

Explanation of symbols used in this manual and on the product:



ATTENTION!
Read manual before installation and operation.



DANGER!
Safety hazard.
Risk of injury or death.



WARNING!
Hazardous voltage.
Risk of severe or fatal electric shock.



WARNING!
Fire hazard.

Description

The RPL1000 is a unique combination of a dimmable rack light, a power conditioner, a power distributor, an AC line volt meter and a USB 2A charger for mobile devices - all in a neat and compact 1U rackmount case. The power conditioning function protects all connected equipment from surges and spikes, and the built-in circuit breaker provides overload protection. This unit makes the perfect centre piece for professional equipment racks in all kinds of applications, whether mobile or installed.

Health advice

This unit produces and absorbs electromagnetic radiation. The strength of radiation and the sensitivity for disturbing interference matches the CE and FCC requirements. A corresponding sign is printed on the backside of the unit. Any change or modification may affect the behavior of the unit concerning electromagnetic radiation, with the CE requirements eventually not to be met any more. The manufacturer takes no responsibility in this case.

Functional advice

This unit is immune to the presence of electromagnetic disturbances – both conducted and radiated - up to a certain level. Under peak conditions, the unit is classified to show a “class C” performance criteria and may encounter temporary degradation or loss of function which may need manual help to recover. In such case, disconnect the AC power from the unit and reconnect it again to recover.

Environmental advice

This unit is built to conform to the ROHS standards and the WEEE directive 2002/96/EC of the European Parliament and of the Council of the European Union. Under these regulations, the product shall not be discarded into regular garbage at the end of its life, but shall be returned to authorized recycling stations.

Unpacking

Please check that the box contains the following items:

Main parts: 1 pc. RPL1000 main unit with attached power cable
 1 pc. Operation manual

If any part is missing, please contact your dealer immediately for replacement.

Warning



After unpacking, and before plugging the AC cord in the wall outlet, check whether the AC mains voltage and frequency is the same as this product is specified for (see rear panel of product, close to the AC cord inlet). Whenever the specified voltage or your AC plug should not match the local conditions, do NOT plug the AC cord into the wall outlet, and contact your dealer immediately.



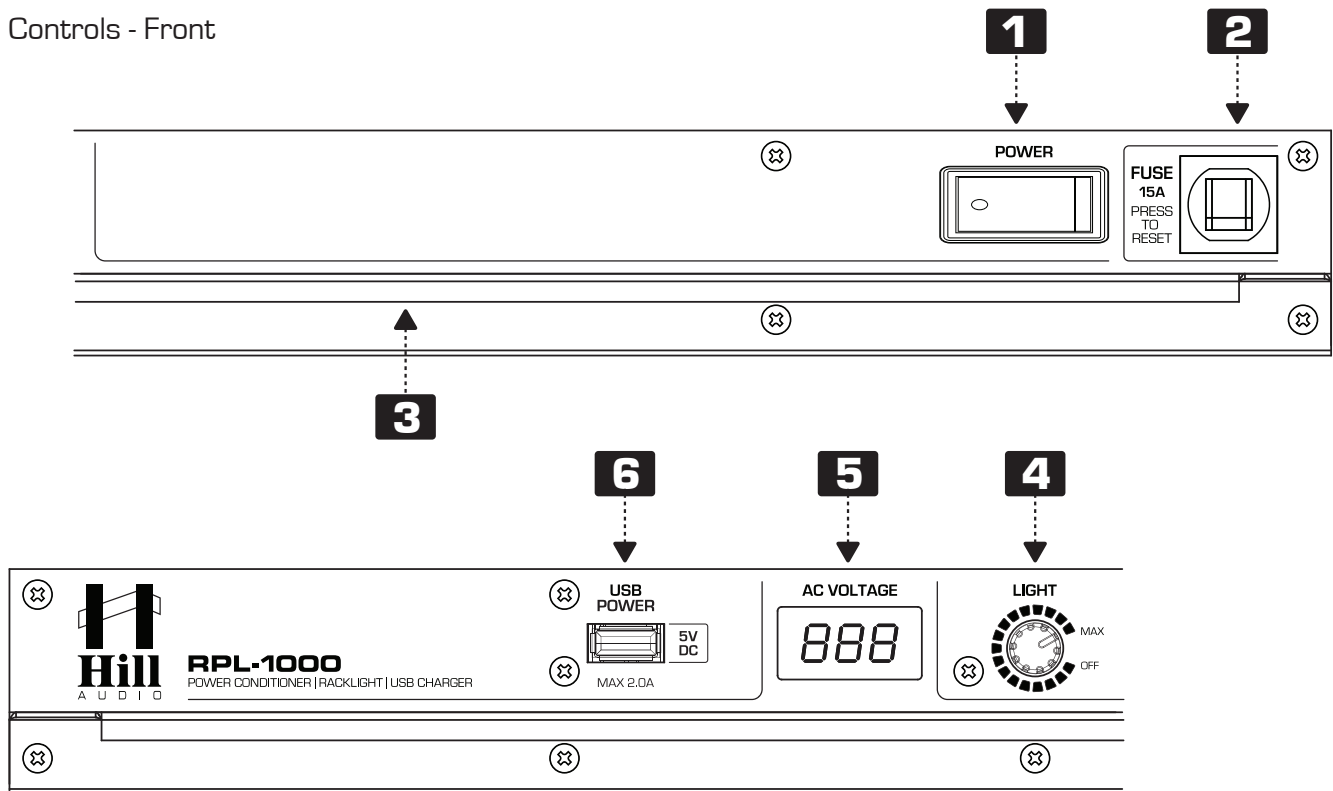
This device is specified for a total of 15A of load. Exceeding this maximum load can damage internal components and may yield a risk of malfunction, shock hazard or fire. It is not recommended to connect devices such as incandescend lamps, fog machines or high-power audio amplifiers to this unit.



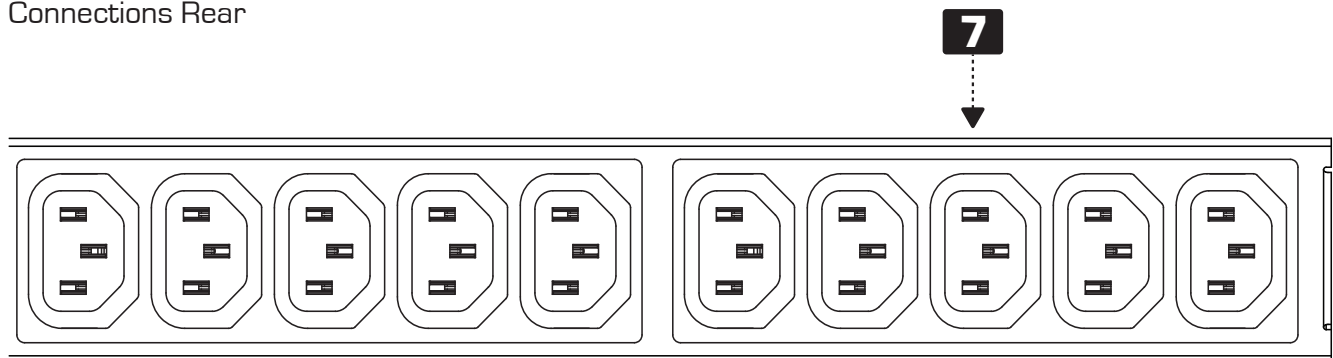
To provide protection on a system-level, this device must be connected to an earthed AC supply. Usage with unearthed AC supply is strictly prohibited. In mobile systems, the operator must check whether the earth contact of the AC supply line is connected to earth accordingly.

Controls and Connections

Controls - Front



Connections Rear



Functional Description

The RPL1000 is a dimmable LED rack light, a power conditioner, a power distributor, an AC line volt meter and a USB 2A charger in one unit. The power conditioning function protects all connected equipment from surges and spikes, and a built-in circuit breaker provides overload protection.

- 1** Power switch. This switch switches the complete unit on and off, including the USB charger section (6), the racklight (3 & 4) and the rear-side power outlets (7). Note that in case the fuse breaker (2) was tripped, the unit will be off even if the power switch is on.
- 2** Fuse breaker. This is a 15A fuse breaker in series with the power switch, which will trip if the total power drawn through the power cord (8) exceeds 15A. If the breaker was tripped, switch the unit off via the on/off switch (1), reduce the connected load, press the actuator on the breaker and power the unit up again via the power switch (1).
- 3** LED light. This is a downwards-directed LED strip with daylight colour temperature. Provided this unit is mounted in the top position of a rack, it can illuminate the user surfaces of devices mounted below. The LED light can be switched on and off and adjusted in its brightness via the dimmer control (4).
- 4** LED light on/off switch and brightness control. Turn this fully counterclockwise to reduce the brightness and turn it over the detent at the fully counterclockwise position to switch the LED light (3) off. Accordingly, turning it clockwise switches on and increases the brightness of the LED light (3).
- 5** AC Volt Meter. This display indicates the current voltage of the AC supply to which the power cord (8) is connected, in full volts, with about 1% accuracy. This is helpful to determine whether malfunction of equipment may be related to AC supply issues.
- 6** USB charging port. This is a USB type A socket, where the USB power lines carry 5V DC and deliver up to 2A of current. This is sufficient to also charge devices with larger current requirements such as tablet computers.

**ATTENTION:**

This port provides 5V DC regulated voltage. No current regulation is provided however, so this port is only suitable for charging devices with on-board charge current management. The manufacturer of this product does not accept any liability for charging compatibility and subsequent potential damages.

- 7** Switched AC Outlets. These are ten IEC 60320 - C13 outlets, which are switched on and off simultaneously via the power switch (1). Each single outlet is limited to 5A load, each group of 5 outlets limited to 8A, while the total load of all ten outlets together may not exceed 15A. If the load exceeds 15A, the circuit breaker (2) will trip. It is thus not recommended to connect devices such as incandescend lamps, fog machines or high-power audio amplifiers to these outlets. The voltage available at these outlets is filtered for spikes, surges and RF.

**ATTENTION:**

This product is not a power sequencer, so all outlets will be switched on and off at the same time. If power sequencing is needed to reduce the surge current during powering up, this product is not suitable.

- 8** AC cord. The AC cord is fixed to this unit and shall not be removed or replaced by other AC cords. Any extension must be able to carry the same power (250V/16A). It is essential that the outlet to which the power plug is connected is properly earthed, as otherwise no earthing will be provided to any devices connected to the AC outlets (7), which may result in unexpected performance for equipment which requires proper earthing, or in safety risks.

Technical Specifications

AC IN (EU version).....	AC 220-250V 50Hz
Switched Outlets.....	10 (2 groups 5 each)
Max. Output Current (per outlet/group).....	15A (5A/8A)
Maximum suppressible spike volage.....	340V AC
Maximum energy absorpition of spikes.....	240 Joules
Noise Attenuation.....transverse & common modes: 20dB @ 200kHz, rising to >40dB, 1-100 MHz	
Circuit Breaker.....	15A
Power consumption (internal electronics, without external loads).....	max. 25W
Dimensions.....	W483xH44.5xD150.0mm
Weight (incl. power cord).....	1.9 kg

Maintenance and warranty

While we have chosen the best components to make this product as rugged and reliable as possible, some parts in audio products (potentiometers, faders, switches) are subject to wear which is a matter of operation cycles, and not of time. While providing a full time-based warranty according to the country's of purchase requirements on the function of the electronic circuitry, we hence have to limit the warranty on such electro-mechanical parts to 90 days from the date of purchase.

In many cases, malfunction of electro-mechanical parts occurs due to dust contamination, which may require cleaning of such parts. As the inside of such parts is not accessible, a common practice is to use cleaning fluids in the shape of sprays. Please be reminded that many of such fluids contain chemicals which may wash away the dust but at the same time corrode or damage contact surface and may cause cosmetic damage to other parts. We hence explicitly exclude any claims for exchange of damaged part due to mechanical or chemical impact.



EC Declaration of Conformity

Manufacturer: Adelto Technologies Limited
Address: Unit 2A Springfield Road, Springfield Industrial Estate
Burnham-on-Crouch, Essex CM08UA, England

We declare on our own responsibility, that the equipment

Hill Audio RPL1000

is in conformity with the following directives and standards or regulations:

EMC Directive 2004/108/EC

EN55103-1:2009 (Emissions)
EN55103-2:2009 (Immunity)
EN61000-3-2:2006 + A1:2009 + A2:2009
EN61000-3-3:2008

LVD Directive 2006/95/EC

EN60065:2002 A1:2006 + A11:2008 + A2:2010

ROHS Directive 2002/95/EC

and is marked as follows:



Burnham-on-Crouch, 2. October 2015
Place and date of issuing


Authorized Signature

www.hill-audio.com



Hill Audio products are developed, manufactured and distributed by
Adelto Technologies

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