



SAFETY INFORMATION

1. Please read these instructions carefully.
2. Keep all information and instructions in a safe place.
3. Follow the instructions.
4. Observe all safety warnings. Never remove safety warnings or other information from the equipment.
5. Use the equipment only in the intended manner and for the intended purpose.
6. Use only sufficiently stable and compatible stands and/or mounts (for fixed installations). Make certain that wall mounts are properly installed and secured. Make certain that the equipment is installed securely and cannot fall down.
7. During installation, observe the applicable safety regulations for your country.
8. Never install and operate the equipment near radiators, heat registers, ovens or other sources of heat. Make certain that the equipment is always installed so that is cooled sufficiently and cannot overheat.
9. Never place sources of ignition, e.g., burning candles, on the equipment.
10. Ventilation slits must not be blocked.
11. Do not use this equipment in the immediate vicinity of water (does not apply to special outdoor equipment - in this case, observe the special instructions noted below. Do not expose this equipment to flammable materials, fluids or gases).
12. Make certain that dripping or splashed water cannot enter the equipment. Do not place containers filled with liquids, such as vases or drinking vessels, on the equipment.
13. Make certain that objects cannot fall into the device.
14. Use this equipment only with the accessories recommended and intended by the manufacturer.
15. Do not open or modify this equipment.
16. After connecting the equipment, check all cables in order to prevent damage or accidents, e.g., due to tripping hazards.
17. During transport, make certain that the equipment cannot fall down and possibly cause property damage and personal injuries.
18. If your equipment is no longer functioning properly, if fluids or objects have gotten inside the equipment or if it has been damaged in another way, switch it off immediately and unplug it from the mains outlet (if it is a powered device). This equipment may only be repaired by authorized, qualified personnel.
19. Clean the equipment using a dry cloth.
20. Comply with all applicable disposal laws in your country. During disposal of packaging, please separate plastic and paper/cardboard.
21. Plastic bags must be kept out of reach of children.

FOR EQUIPMENT THAT CONNECTS TO THE POWER MAINS:

22. **CAUTION:** If the power cord of the device is equipped with an earthing contact, then it must be connected to an outlet with a protective ground. Never deactivate the protective ground of a power cord.
23. If the equipment has been exposed to strong fluctuations in temperature (for example, after transport), do not switch it on immediately. Moisture and condensation could damage the equipment. Do not switch on the equipment until it has reached room temperature.
24. Before connecting the equipment to the power outlet, first verify that the mains voltage and frequency match the values specified on the equipment. If the equipment has a voltage selection switch, connect the equipment to the power outlet only if the equipment values and the mains power values match. If the included power cord or power adapter does not fit in your wall outlet, contact your electrician.
25. Do not step on the power cord. Make certain that the power cable does not become kinked, especially at the mains outlet and/or power adapter and the equipment connector.
26. When connecting the equipment, make certain that the power cord or power adapter is always freely accessible. Always disconnect the equipment from the power supply if the equipment is not in use or if you want to clean the equipment. Always unplug the power cord and power adapter from the power outlet at the plug or adapter and not by pulling on the cord. Never touch the power cord and power adapter with wet hands.
27. Whenever possible, avoid switching the equipment on and off in quick succession because otherwise this can shorten the useful life of the equipment.
28. **IMPORTANT INFORMATION:** Replace fuses only with fuses of the same type and rating. If a fuse blows repeatedly, please contact an authorised service centre.
29. To disconnect the equipment from the power mains completely, unplug the power cord or power adapter from the power outlet.
30. If your device is equipped with a Volex power connector, the mating Volex equipment connector must be unlocked before it can be removed. However, this also means that the equipment can slide and fall down if the power cable is pulled, which can lead to personal injuries and/or other damage. For this reason, always be careful when laying cables.
31. Unplug the power cord and power adapter from the power outlet if there is a risk of a lightning strike or before extended periods of disuse.

CAUTION:



Never remove the cover, because otherwise there may be a risk of electric shock. There are no user serviceable parts inside. Have repairs carried out only by qualified service personnel.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock.



The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions.

CAUTION – HIGH VOLUME LEVELS WITH AUDIO PRODUCTS!

This equipment is intended for professional use. Therefore, commercial use of this equipment is subject to the respectively applicable national accident prevention rules and regulations. As a manufacturer, Adam Hall is obligated to notify you formally about the existence of potential health risks. Hearing damage due to high volume and prolonged exposure: When in use, this product is capable of producing high sound-pressure levels (SPL) that can lead to irreversible hearing damage in performers, employees, and audience members. For this reason, avoid prolonged exposure to volumes in excess of 90 dB.

CAUTION! IMPORTANT INFORMATION ABOUT LIGHTING PRODUCTS

Do not look into the beam from a distance of less than 40 cm.
Do not stare into the beam for extended periods at short-to-medium distances.
Do not view the beam directly with optical instruments such as magnifiers.
Under some circumstances, stroboscopic effects may trigger epileptic seizures in sensitive individuals! For this reason, persons who suffer from epilepsy should always avoid places where strobe lights are used.

MANUFACTURER'S WARRANTY

This warranty extends to the Palmer branded product you purchased from Adam Hall. The statutory warranty rights against the vendor shall not be affected by this warranty. Rather, this warranty gives you additional independent claims against Adam Hall. With this warranty, Adam Hall ensures that products you have purchased from Adam Hall or Adam Hall partners, under normal use, are free of defects in material or

workmanship for a period of 5 years from the date of purchase, or 2 years from the date of purchase for tube amplifiers and guitar cabinets. The warranty period begins on the date of purchase. In order to assert a claim for warranty service, the proof of date of purchase is provided by the receipt bearing the date of purchase or the date of purchase on the delivery note. You are entitled to warranty service under the conditions and provisions set out in this document, if a repair within the warranty period is required. This warranty applies only to the original purchaser of the products supplied by Adam Hall and is not transferable to any person to whom the property is transferred by the original purchaser. Within the warranty period, the defective parts or the product from Adam Hall will be repaired or replaced. Under the terms of this warranty, all the replaced or removed components become the property of Adam Hall. In the unlikely event that a product acquired from Adam Hall, repeatedly exhibits a defect, Adam Hall may decide, at its discretion, to replace this product with a comparable product of at least the same performance. Adam Hall does not guarantee that the operation of this product will be uninterrupted or error-free. Adam Hall accepts no responsibility for any damage due to incorrect compliance with the instructions received in the delivery.

This warranty does not extend to:

- wearing parts (eg battery, tubes).
- devices that have had their serial number removed or damaged, or failed as a result of an accident
- inappropriate or abusive use or other external causes
- devices that were not used in accordance with the operating parameters defined in the user documentation shipped with the product
- devices that have been repaired using parts not made or distributed by Adam Hall
- devices that have been serviced, modified or repaired by someone other than Adam Hall or an authorised service partner.

These terms and conditions constitute the complete and exclusive warranty agreement between you and Adam Hall regarding the Adam Hall branded product you have purchased. This warranty is valid only within Europe. Outside of Europe please contact our official distributors.

LIMITATION OF LIABILITY

If your Adam Hall branded hardware product fails to work as warranted above, your sole and exclusive remedy shall be repair or replacement. Adam Hall's maximum liability under this limited warranty is expressly limited to the lesser of the price you have paid for the product or the cost of repair or replacement of any components that malfunction under conditions of normal use. Adam Hall is not liable for any damages caused by the product or the failure of the product, including any lost profits or savings or special, incidental, or consequential damages. Adam Hall is not liable for any claim made by a third party or made by you for a third party. This limitation of liability applies whether damages are sought, or claims are made, under this Limited Warranty or as a tort claim (including negligence and strict product liability), a contract claim, or any other claim, and cannot be rescinded or changed by anyone. This limitation of liability will be effective even if you have advised Adam Hall or an authorized representative of Adam Hall of the possibility of any such damages, but not, however, in the event of claims for damages in connection with personal injuries. This manufacturer's warranty grants you specific rights; depending on jurisdiction (nation or state), you may be entitled to additional claims. You are advised to consult applicable state or national laws for a full determination of your rights.

REQUESTING WARRANTY SERVICE

To request warranty service for the product, contact Adam Hall or the Adam Hall authorized reseller from which you purchased the product.

EC DECLARATION OF CONFORMITY

The equipment marketed by Adam Hall complies (where applicable) with the essential requirements and other relevant specifications of Directives 1999/5/EC (R&TTE), 2004/108/EC (EMC) und 2006/95/EC (LVD). Additional information can be found at www.adamhall.com.

PROPER DISPOSAL OF THIS PRODUCT (WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT)

(valid in the European Union and other European countries with waste separation) This symbol on the product, or the documents accompanying the product, indicates that this appliance may not be treated as household waste. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. Please dispose of this product separately from other waste and have it recycled to promote sustainable economic activity. Household users should contact either the retailer where they purchased this product, or their local government office, for details on where and how they can recycle this item in an environmentally friendly manner. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

ENVIRONMENTAL PROTECTION AND ENERGY CONSERVATION

Energy conservation is an active contribution to environmental protection. Please turn off all unneeded electrical devices. To prevent unneeded devices from consuming power in standby mode, disconnect the mains plug.

SCOPE OF APPLICATION

A DI box (DI stands for direct injection) is used to feed the electronic signal of a musical instrument directly into the microphone input of a mixing console or into a stagebox, thus avoiding any detours due to acoustic conversion (speaker/microphone). In addition to adjusting the volume level, the DI box ensures that the input signal is converted and balanced at low impedance. Thus, the signal is less susceptible to noise interference and cable losses. All Palmer DI boxes also allow for galvanic isolation between input and output, since they use an audio transmitter. However, you should not use a passive DI box to separate electrically isolated line signals, because for technical reasons, the translation will not be 1:1. In this case, it is better to use a Line Isolation Box (e.g. Palmer PLI01, PLI02, PLI03, PLI04, PLI05, PLI06 etc.).

USER INTERFACE

CONNECTORS

Using shielded mono jack cables, connect the unbalanced outputs of the musical instrument to the inputs of the PAN04. The sockets, labelled Thru, allow looping of the original signal, e.g. in order to connect to an amplifier on stage. Using shielded microphone cables, connect the stagebox/microphone inputs of the mixer to the XLR/m sockets, labelled Balanced Out.

ATTENUATOR

This switch allows the attenuation of high input signals by 30 dB. For all signals up to +6 dBu (line level), use the 0 dB position of the attenuator. If you want to remove a speaker signal, i.e. position the DI box between the amplifier and the speaker box, use the -30 dB switch position. Generally speaking, you should set the attenuator so that a reasonable level at the microphone input is present.

GROUND LIFT SWITCH

As mentioned above, the design of the PAN04 conditions the galvanic isolation between input and output. (Galvanic separation means that there is no electrically conductive connection. The coupling of the signals in the transmitter is based on magnetic induction). The galvanic isolation prevents ground loops, which occur by double grounding (e.g. an instrument on a grounded European Schuko plug, and a grounded mixer). In the simplest case, the ground lift switch should be operated by ear. As a rule of thumb, for devices that are grounded via their power supply, the switch should be placed in the LIFT position and for battery powered instruments, the GND position should be used.