



User's Manual

LAX12D

12-CHANNEL MIXING CONSOLE WITH DIGITAL EFFECTS



www.ld-systems.com

User's Manual

IMPORTANT!

**Please read this manual carefully before operating
this unit for the first time.**

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SAFETY RELATED SYMBOLS



This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages within the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.



This symbol, wherever used, alerts you to important operating and maintenance instructions. Please read.



Protective Ground Terminal



AC mains (Alternating Current)



Hazardous Live Terminal

ON: Denotes the product is turned on.

OFF: Denotes the product is turned off.

WARNING

Describes precautions that should be observed to prevent the possibility of death or injury to the user.

CAUTION

Describes precautions that should be observed to prevent damage to the product.



This product should not be disposed in municipal waste and should be collected separately.

WARNING

- Power Supply

Ensure that the mains source voltage (AC outlet) matches the voltage rating of the product. Failure to do so could result in damage to the product and possibly the user.

Unplug the product before electrical storms occur and when unused for long periods of time to reduce the risk of electric shock or fire.

- External Connection

Always use proper ready-made insulated mains cabling (power cord). Failure to do so could result in shock/death or fire. If in doubt, seek advice from a registered electrician.

- Do Not Remove Any Covers

There are areas within the product where high voltages may be present. To reduce the risk of electric shock do not remove any covers unless the AC mains power cord is removed.

Covers should be removed by qualified service personnel only.

No user serviceable parts inside.

- Fuse

To prevent fire and damage to the product, only use the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder. Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

- Protective Ground

Before turning the product ON, make sure that it is connected to Ground. This is to prevent the risk of electric shock.

Never cut internal or external Ground wires. Likewise, never remove Ground wiring from the Protective Ground Terminal.

- Operating Conditions

Always install in accordance with the manufacturer's instructions.

To avoid the risk of electric shock and damage, do not subject this product to any liquid/rain or moisture. Do not use this product when in close proximity to water.

Do not install this product near any direct heat source. Do not block areas of ventilation. Failure to do so could result in fire.

Keep product away from naked flames.

IMPORTANT SAFETY INSTRUCTIONS

Read these instructions

Follow all instructions

Keep these instructions. Do not discard.

Heed all warnings.

Only use attachments/accessories specified by the manufacturer.

- Power Cord and Plug

Do not tamper with the power cord or plug. These are designed for your safety.

Do not remove Ground connections!

If the plug does not fit your AC outlet seek advice from a qualified electrician.

Protect the power cord and plug from any physical stress to avoid risk of electric shock.

Do not place heavy objects on the power cord. This could cause electric shock or fire.

- Cleaning

When required, either blow off dust from the product or use a dry cloth.

Do not use any solvents such as Benzol or Alcohol. For safety reasons, keep product clean and free from dust.

- Servicing

Refer all servicing to qualified service personnel only.

Do not perform any servicing other than the instructions contained within this Manual.

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1. INTRODUCTION

Thank you for expressing your confidence in our products by purchasing the LAX12D mixing console. The LAX12D is a professional compact mixer. It's smooth, accurate and natural sound characteristics make it ideal for gigs, recording and fixed PA installations. The LAX12D mixing console is packed with some key features that are rarely found in other consoles of its size:

The ultra low noise microphone preamplifiers of the mono inputs are provided with phantom power at +48 Volts. Both the stereo and the mono channels are equipped with warm and natural sounding EQs. The mono Channels have a 3-band MID sweep EQ and the stereo channels a 4-band fixed frequency EQ. Other special features include highly accurate 12-segment bar graphic meters, 2-Track inputs assignable to the Main Mix, Phones/Control Room outputs etc.

The 24-bit effect processor with 100 effects is supplied specifically for LAX12D. it is extremely easy to operate but we nonetheless advise you to go through each section of this manual carefully. This way you will get the best out of your LAX12D.

2. FEATURES

The LAX12D mixing console is designed for professional applications. It provides the following features:

- MIC input channels with gold plated XLR-Pins and balanced LINE inputs
- stereo input channels with balanced TRS jacks
- Ultra-low noise discrete MIC pre-amps with +48V Phantom power
- Extremely high headroom offering more dynamic range
- Insert on each of the mono input channels
- Switchable Low-cut filter on each mono channel
- +4dBu/-10dBV selector on each stereo channel
- Warm, natural 4-band fixed frequency EQ on each stereo channel
- 3-band EQ with MID sweep(100Hz~8KHz) on each mono channel
- Peak LED on each channel
- Mute/ALT 3-4, SOLO function on each channel
- 2 AUX Returns for additional Inputs
- Control Room and Phone outputs
- 2-Track inputs assignable to Main Mix, Control Room / Phones outputs
- Highly accurate 12-segment bar graph meters
- 24 bit digital effects processor
- up to 100 presets
- Effect Bypass by means of MUTE switch or a footswitch connected to the DFX FOOTSWITCH jack.

3. GETTING STARTED

- 3.1 Please check the AC voltage available in your country before connecting your LAX12D to the AC socket.
- 3.2 Be sure that the main power switch is turned off before connecting the mixer to the AC socket. You should also make sure that all input and output controls are turned down. This will avoid damage to your speakers and avoid excessive noise.
- 3.3 If you have an amplifier connected to the main outputs of the LAX12D, make sure to first turn on the LAX12D and then the amplifier. When finished working, first turn off the amplifier and then the LAX12D.
- 3.4 Before disconnecting the LAX12D always turn-off the power switch.
- 3.5 Do not use solvents to clean your LAX12D. A dry and clean cloth is sufficient..

4. CONTROL ELEMENTS

LAX12D



For your notes:

4.1 THE MONO MIC/LINE CHANNELS 1

You can connect balanced, low impedance microphones or a low level signal to the XLR socket. On the 1/4" line jack you can connect either a microphone or line level instruments such as synthesizers, drum machines, effect processors or any other line level devices.

Note: it is not possible to simultaneously use both the MIC & LINE inputs on the same channel.

PHANTOM POWER +48 VOLTS

4.2 INPUT LEVEL SETTING 2

This control is provided with 2 different indication rings: one is for the microphone and the other for the line level. Read the outer ring (0 ~ 44dB) when you are using a microphone, the inner ring (+15 ~ -30dB) is for line level instruments. Adjust this control in such a way that the peak LED above the Fader lights up occasionally. This LED should not light up constantly, otherwise your signal may be distorted.

4.3 LOW CUT SWITCH 3

By pressing this button you will activate a 75Hz low frequency filter with a slope of 18 dB per octave. You can use this function to reduce the hum noise caused by the mains power supply, or the stage rumble while using a microphone.

4.4 STEREO INPUTS 4

These are organized in stereo pairs with 1/4" TRS sockets. Use the left input to connect a mono input signal to the STEREO INPUT.

4.5 +4dBu/-10dBV 5

With this button you can select the input sensitivity of the line inputs on the stereo channels. +4dBu is suitable for professional audio devices, -10dBV is suitable for general HI-FI devices. If not sure which setting to use, first try +4dBu and then switch to -10dBV should the level not be high enough.

4.6 AUX SENDS 6

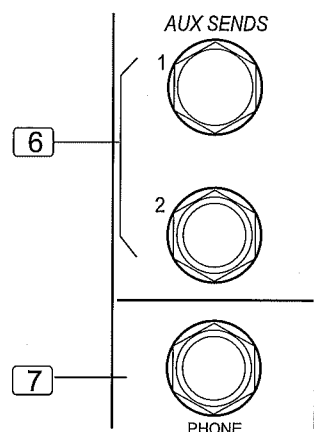
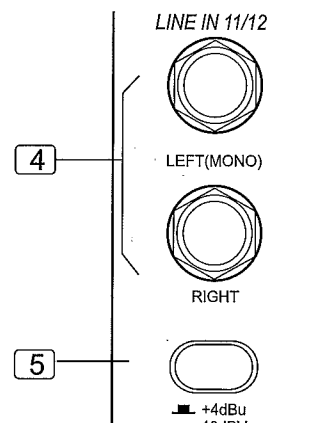
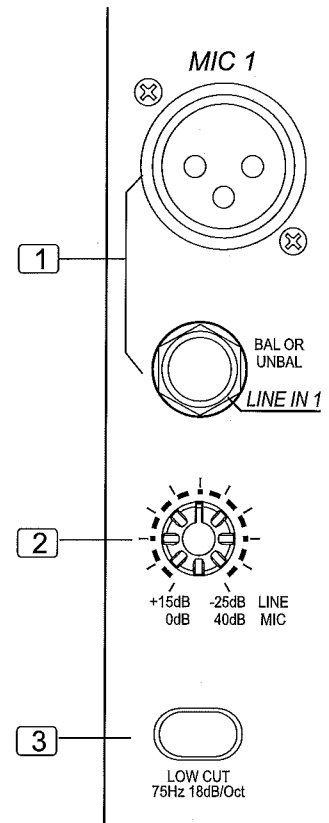
You can use the Aux sends to split a channel's signal and send a certain amount to external devices such as Effects devices. The Aux sends can also be used to create submixes.

4.7 PHONES 7

Connect your headphones to this socket to monitor the main mix.

4.8 EQUALIZER

The mono input channels are equipped with 3-band MID sweep EQs - HI band, MID band and LOW band. The stereo channels are equipped with 4-band fixed frequency EQs - HI band, HI-MID band, MID-LOW band and LOW band. All bands provide up to 15dB boost or cut.



- HI **8**

This is the treble control. It can be used to eliminate unwanted high frequencies or to give your signal more brilliance and presence. It ranges from -15dB to +15dB with a center frequency of 12kHz.

- MID **9**

This is the midrange control. It provides 15dB boost or cut. The FREQ knob sets the center frequency, the adjustable range goes from 100Hz to 8KHz. It can affect most fundamental frequencies of all musical instruments and the human voice.

- HI-MID **10**

Here the frequency range is set slightly higher than in the MID section to improve flexibility whilst adjusting the middle frequencies.

- MID-LOW **11**

This control provides you up to 15dB boost or cut at 500Hz.

- LOW **12**

This is the bass control. It can be used to boost a male voice, kick-drum or bass guitar. The gain ranges from -15dB to +15dB and the center frequency is at 80Hz.

4.9 AUX SENDS CONTROL **13**

These two controls are used to adjust the level of signal sent to the AUX Busses 1 & 2. This adjustment does not affect the output signal of the main mix. AUX1 can be configured as PRE/POST fader via the PRE/POST switch. When the aux is set to POST Fader (i.e. the Button is not pressed), the signal is sent out after the channel fader and will be affected by the channel fader. If set to PRE fader (the button is pressed), the signal is sent out before the channel fader and will not be affected by the channel fader. AUX2 is configured as POST fader.

4.10 PAN/BAL CONTROL **14**

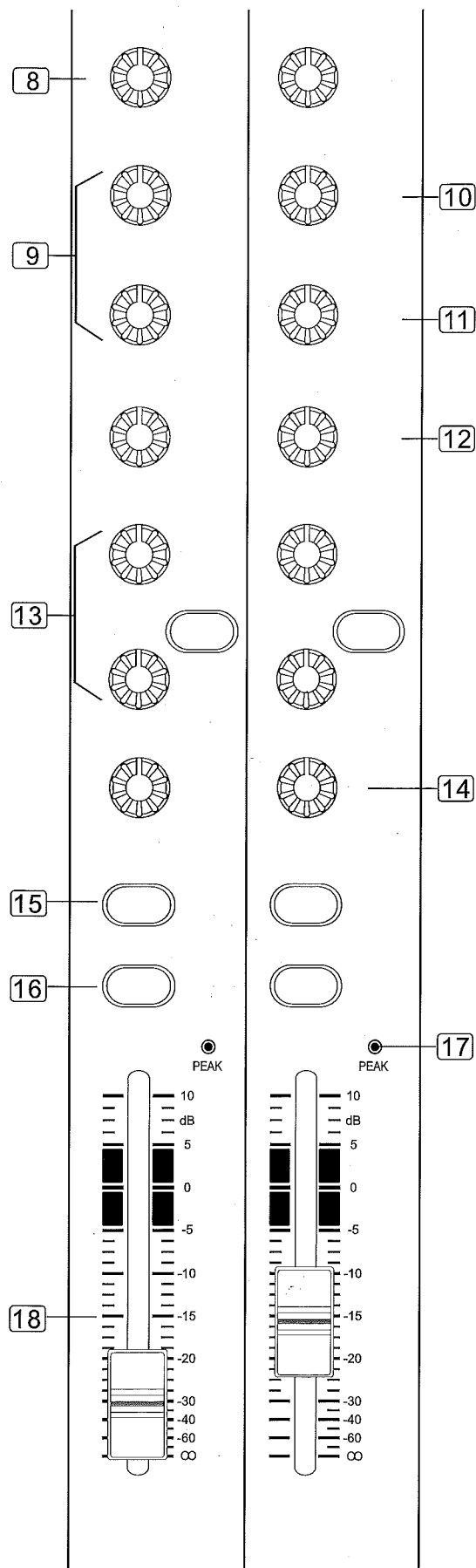
Mono channels have a panorama (Pan) control whereas stereo channels have a so called Balance (Bal) control. Both controls are used to distribute the signal between the left and right channels of the main mix.

4.11 MUTE /ALT 3-4 SWITCH **15**

Each channel is equipped with the MUTE/ALT3-4 switch. This switch is used to route the channel signal to ALT3-4 output instead of the main mix.

4.12 SOLO SWITCH **16**

By pressing the SOLO button of a channel you will only hear this specific signal without the other channels. The SOLO function is used for leveling in and as a preview function.

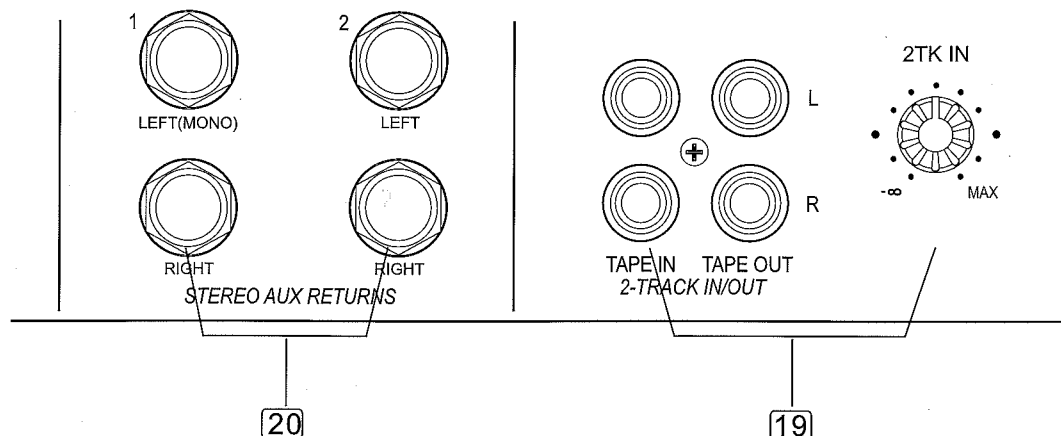


4.13 PEAK LED 17

In the LAX12D each channel's audio signal is monitored at several different stages. The results of this monitoring are expressed by the PEAK LEDs. When this LED lights up, it warns you that you are reaching signal saturation and possible distortion. The PEAK LED will light at a level that is 6dB before actual clipping.

4.14 FADER 18

This control will adjust the overall level of this channel, it sets the amount of signal sent to the main output.



4.15 2-TRACK IN/OUT 19

- TAPE IN

The Tape Input is an additional stereo input which can either be routed to the CONTROL ROOM/PHONES output using the 2TK IN button on the front panel or to the MAIN MIX output using the 2TK TO MAIN MIX button. The Tape Input is often used to connect devices such as a CD Player.

- TAPE OUT

From these RCA sockets you can send main mix to a tape recorder, CD-recorder or a similar device.

- 2TK IN CONTROL

This control is used to adjust the level of 2TK IN signal, which can be varied from $-\infty$ to MAX.

4.16 STEREO AUX RETURNS 20

Use these stereo 1/4" sockets to return the sound of an effect unit to the main mix. You can also use them as the extra auxiliary inputs, but they are primarily used to connect the outputs of external effect processors.

Note: If there is no input on AUX RETURN 2, the input of AUX RETURN 1 will also be routed to AUX RETURN 2. The Signal will then be mixed to the main L/R mix bus.

4.17 AUX RETURN CONTROL 21

These two controls adjust the level of the signal present at the AUX RETURNS 1&2. The signal is mixed in to the main L/R mix bus.

4.18 EFX TO AUX 1 22

With this Button you can route the digital effects to the AUX RETURNS so that they can be heard via the main mix.

4.19 AUX SENDS CONTROLS 23

With these pots you can determine the master AUX SEND levels. The adjustable range is from $-\infty$ to +15dB. You can thus boost the Aux mix by +15dB if needed.

4.20 OUTPUT LEVEL LED DISPLAY [24]

This stereo 12 segment LED meter will indicate the level of the overall output signal.

4.21 SOLO MODE SWITCH & SOLO ACTIVE LED INDICATOR [25]

With this button you can switch between two solo modes: PFL (Pre-Fader-Listening) and AFL (After Fader Listening). The LAX12D is in AFL solo mode when the button is pressed down, when not pressed the device is in PFL solo mode.

In PFL mode the signals switched to solo are sent out before the fader. Moving the fader will thus have no effect whilst in solo mode. In the AFL Mode the signals switched to solo are sent out after the fader and the panorama (optically the panorama pot is before the fader but technically it's after the fader). Whilst in AFL solo mode you can hear adjustments in fader levels and panorama settings.

Note: The solo mode only has effect when at least one solo button is pressed. The solo Active button lights up when a solo button is pressed (i.e. when in solo-mode).

4.22 ALT 3-4 CONTROL [26]

This fader is used to adjust the level of the ALT output. It ranges from $-\infty$ to +10dB. This allows you to create a second independant stereo submix with its own level adjustment control.

4.23 MAIN MIX LEVEL [27]

With these two faders you can set the levels of both the Main Output and the Tape Output.

4.24 2TK TO MAIN MIX [28]

Engage this button to route the 2TK IN signal into the Main Mix output.

4.25 ALT 3-4 TO MAIN MIX [29]

Engaging this button allows you to combine the ALT 3-4 output with the MAIN MIX, the ALT 3-4 signal is mixed to the Main output.

4.26 CONTROL ROOM SOURCE [30]

Here you can choose which signal you want hear on your main monitors or headphones. You can choose between MAIN MIX, ALT 3-4 and 2TK IN. Please note that the solo-mode overrides these buttons. So if pressing the control room buttons does not take any effect make sure no channel is switched to solo.

4.27 POWER LED [31]

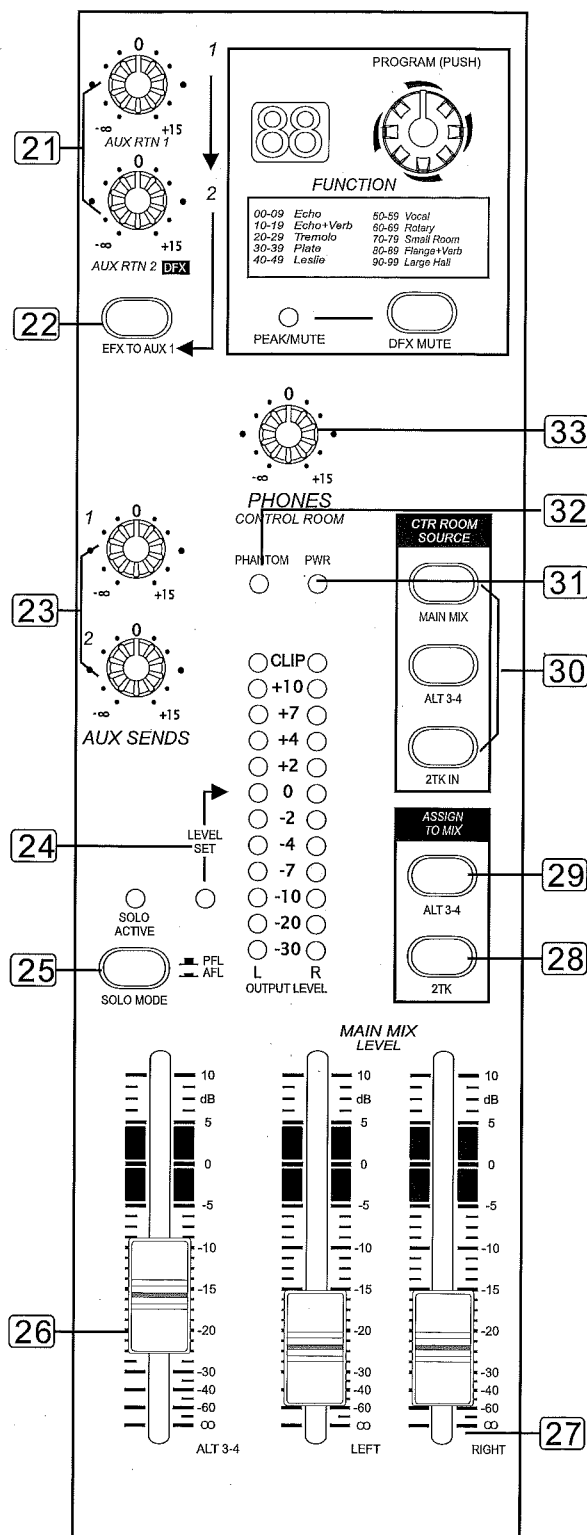
This LED is lit when the power is on.

4.28 PHANTOM LED [32]

This LED indicates when the phantom power is switched on.

4.29 PHONE/CONTROL ROOM CONTROL [33]

This control sets the amount of signal sent both to the Main Output and Tape Output.



4.30 24 BIT DIGITAL EFFECTS

- DFX MUTE SWITCH [34]

This switch is used to activate/deactivate the digital effects.

- DISPLAY [35]

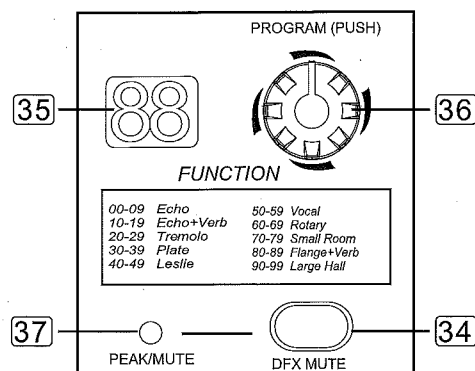
It displays the selected preset.

- PRESETS SELECTOR [36]

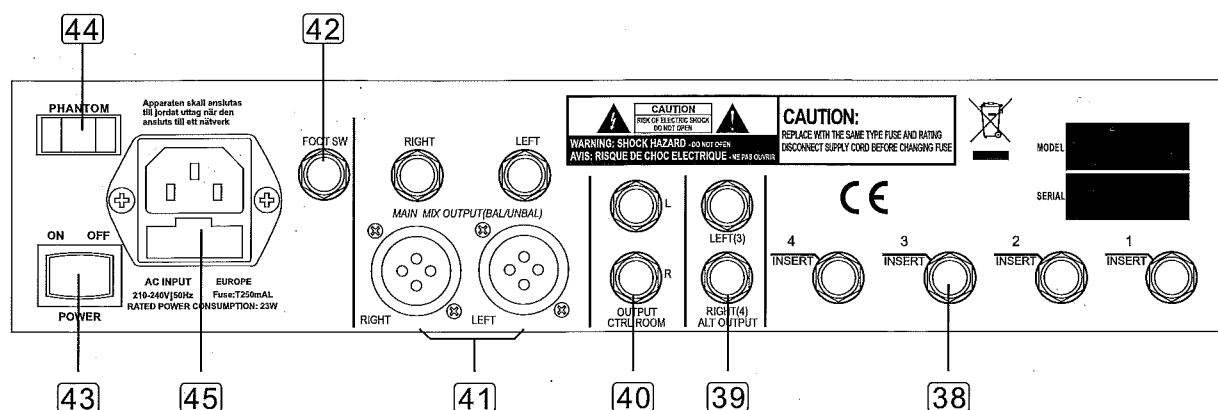
Adjust this knob to select the effect you desire. In total, there are 100 presets to choose from: Echo, Vocal, Plate and versatile two-effect combinations. When you have found the right preset, please push this knob to confirm this preset.

- PEAK LED [37]

This LED lights up when the input signal is too strong. The LED lights up constantly when the effects module is muted.



4.31 THE REAR PANEL.



- MONO CHANNEL INSERT [38]

Insert sockets are provided for all mono MIC channels. It can allow you patch external signal processing devices into the signal path via a TRS connector. The signal will be sent out after the input gain control (TRIM) to an external processor such as a compressor- limiter, then it is returned into the same channel immediately before the EQ section. Note: you will need a Y-cable to fully use the inserts. See this manual for instructions on how this cable needs to be configured.

- CTRL ROOM OUTPUT [39]

These 1/4" sockets are used to send the control room signal to the studio monitor speakers or a PA-System.

- ALT OUTPUT [40]

These 1/4" sockets are unbalanced outputs. They can deliver a signal of +22dBu. The signal level to the ALT OUTPUT is adjusted by ALT 3-4 pot on the front panel

- MAIN MIX OUTPUT [41]

The stereo output is supplied both with XLR and 1/4" TRS sockets, which can be used to send the audio signal to an amplifier. With the main mix level control, you can adjust the output level from -∞ to +10dB.

- FOOT SW **42**

You can connect an external footswitch to this socket, it will activate/deactivate the DSP module, i.e. the footswitch controls the DFX MUTE switch..

- PHANTOM ON/OFF SWITCH **43**

This switch will apply +48 Volt Phantom Power only to the 8 XLR microphone inputs. Never connect microphones When the phantom power is on already.

- POWER ON/OFF SWITCH **44**

This switch is used to turn the main power ON and OFF.

- AC INLET **45**

To connect to main power.

5. INSTALLATION AND CONNECTION

Now that you have a rough idea of the mixers functions you should be able to operate it. However, we strongly recommend you read the following section carefully as it contains a number of useful tips on how to operate the mixer correctly.

- Make sure the input- and master levels of the LAX12D are turned down before you connect microphones and instruments to the inputs.
- Properly connect all external devices such as mics, power amplifiers, speakers, effects processor etc.
- Be sure to lay the cables safely to avoid injury or damage to your equipment.
- Set the output level of your mixer or the connected power amplifier to no more than 75%.
- Set the CONTROL ROOM/PHONES level to no more than 50%.
- Position HI, MID and LOW EQ controls on middle position.
- Position the panorama and balance (PAN/BAL) controls in center position.
- While speaking/singing into the mic (or playing the instrument), adjust the channel Level control so that the channel PEAK LED will blink occasionally, in this way you will maintain good headroom and an ideal dynamic range.
- You can shape the tone of each channel by adjusting the equalizer controls as desired.
- Now repeat the same sequence for all other input channels. Keep an eye on the main LED chain and make sure it does not move up too far into the red section.

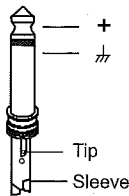
5.1 Audio Connection

For maximum flexibility both XLR and 1/4 " TRS connectors are available on this unit. There are a number of ways to connect your equipment. Read the following chapter to learn more.

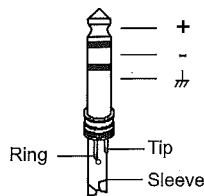
- Wiring Configuration

Either the 1/4" TRS phone jack or XLR connectors can be wired in balanced and unbalanced modes, depending on the equipment used. Please see the following examples on how to wire up your system:

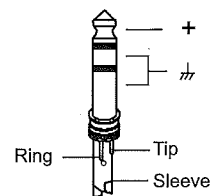
- For 1/4" Phone Jack



TRS Type Unbalanced

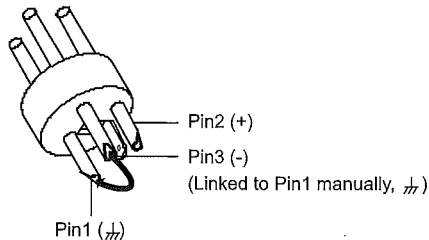


TRS Type Balanced

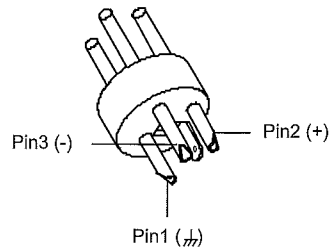


TRS Type Unbalanced

- For XLR connector



XLR Type Unbalanced

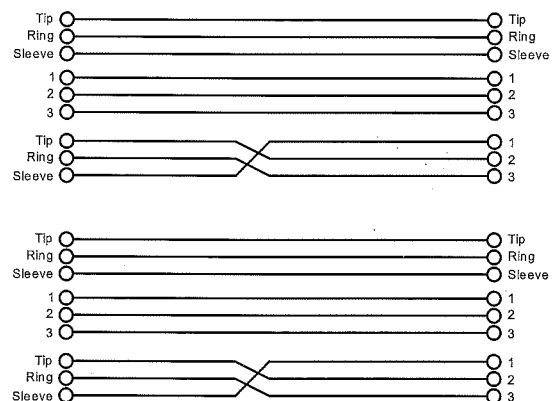
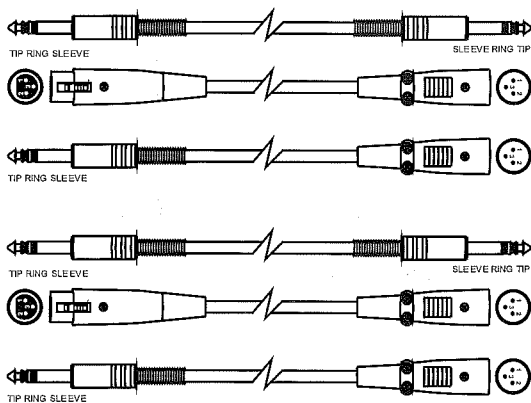


XLR Type Balanced

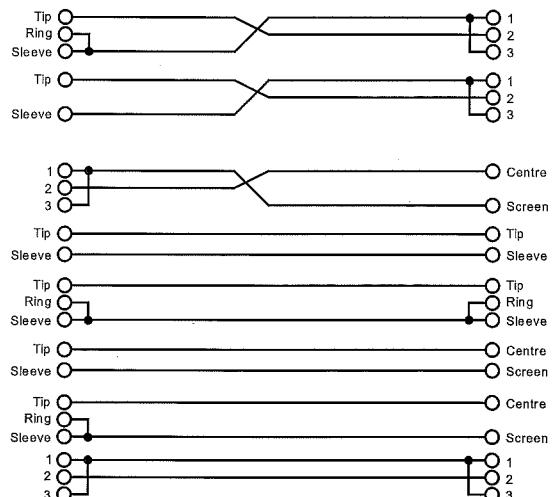
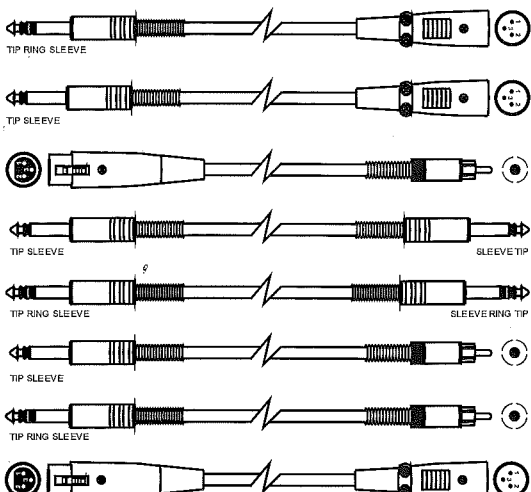
- In-line Connection

For these applications the unit provides 1/4" TRS and XLR connectors to easily interface with most professional audio devices. Follow the configuration examples below for your particular connection.

Balanced



Unbalanced

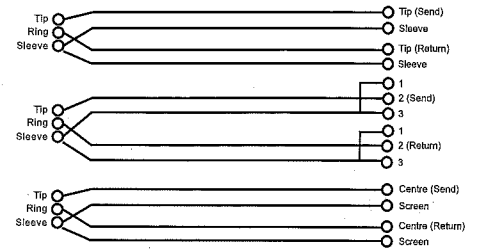
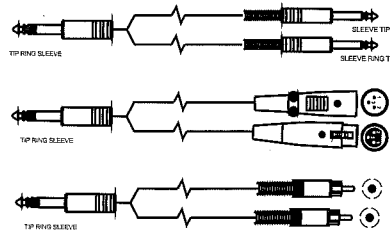
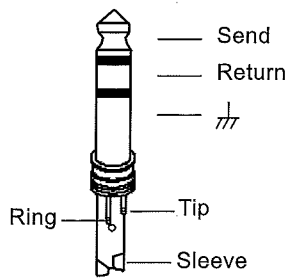


- Insert Points Connection

You will find, that the LAX12D's inserts have a single TRS jack for Send and Return. In order to use the Inserts you need a "Y-Cable". See the examples below as to how such a cable should be configured:

- 1/4" TRS insert

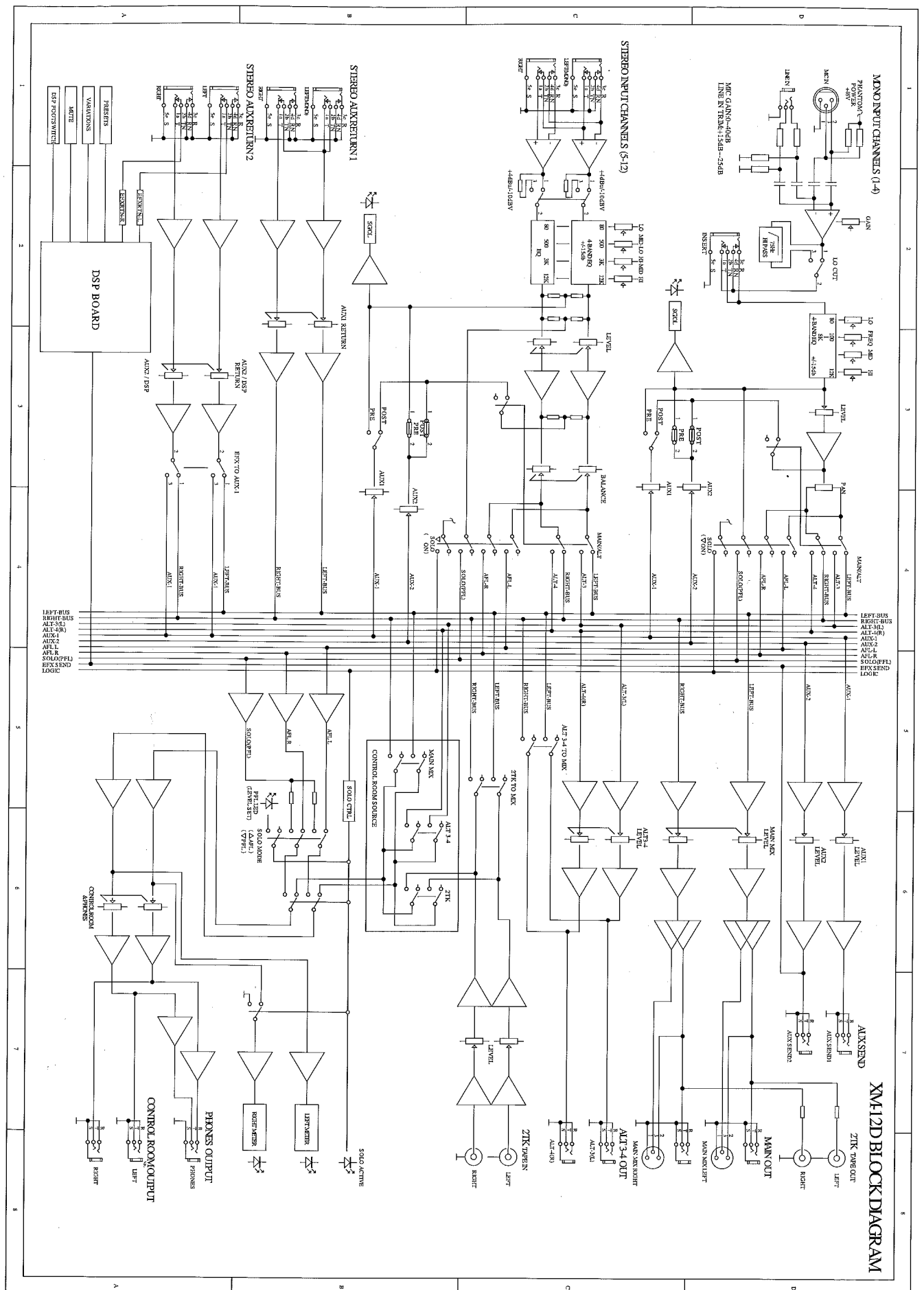
- Insert Leads



6. PRESET LIST

No.	Preset	Description	Parameter
00~09	Echo	The incoming signal is passed on to the output after the lapse of the delay time	Delay Time : 145~205ms
10~19	Echo+Verb	Echo with Room effect.	Delay Time : 208~650ms Decay time : 1.7~2.1s
20~29	Tremolo	Amplitude modulation of the signal.	Rate : 0.6 Hz~5 Hz
30~39	Plate	A simulation of a classic bright vocal plate.	Decay time:0.9s~3.6s
40~49	Chorus	Create the illusion of more than one instrument from a single instrument sound.	Rate : 0.92Hz ~1.72Hz
50~59	Vocal	Simulate a small space with a small decay time.	Rev. decay time: 0.8~0.9s Pre-delay: 0~45ms
60~69	Rotary	Simulate the sound effect achieved by rotating horn speakers and a bass cylinder.	Modulation depth : 20%~80%
70~79	Small Room	Simulate a bright studio room.	Decay time : 0.7~2.1s Pre-delay : 20~45ms
80~89	Flanger+Verb	A combination a modulated delay and a reverb.	Decay time : 1.5~2.9s Rate : 0.8Hz ~2.52Hz
90~99	Large Hall	Simulate a large acoustic space. Decay time : 3.6~5.4s	Pre-delay : 23~55ms

7. BLOCK DIAGRAM



8. TECHNICAL SPECIFICATION

Mono input channels	Microphone input	electronically balanced, discrete input configuration
	Frequency response	10Hz to 45kHz, +/-3dB
	Distortion (THD & N)	0.005% at +4dBu, 1kHz
	Gain range	0dB to 40dB (MIC)
	SNR (Signal to Noise Ratio)	102dB
	Line input	electronically balanced
	Frequency response	10Hz to 45kHz, +/-3dB
	Distortion (THD & N)	0.005% at +4dBu, 1kHz
	Gain range	+15dBu to -25dBu(LINE)
Stereo input channels	Line input	unbalanced
	Frequency response	10Hz to 45kHz, +/-3dB
	Distortion (THD & N)	0.005% at +4dBu, 1kHz
Impedances	Microphone input	3.6kOhms
	All other inputs	10kOhms or greater
	Tape out	1kOhm
	All other output	120Ohms
Equalization	Hi shelving	+/- 15dB @12kHz
	Mid bell (mono)	+/- 15dB @100Hz to 8kHz
	Hi Mid (stereo)	+/- 15dB @ 3kHz
	Mid low (stereo)	+/- 15dB @500Hz
	Low shelving	+/- 15dB @80Hz
	Low Cut filter	75Hz, 18dB/oct.
DSP SECTION	A/D and D/A converters	24 bit
	DSP resolution	24 bit
	Type of effects	Echo, Echo+Verb, Tremolo, Plate, Chorus, Vocal, Rotary, Small Room, Flanger + Verb, Large Hall
	Number of Presets	100
	Controls	Preset select and Effects bypass
Main Mix Section	Noise (Bus noise)	Fader 0 dB, channels muted:-100dBr (ref.:+4dBu) Fader 0dB, all input channels assigned and set to UNITY gain: -90dBr (ref:+4dBu)
	Max output	+22dBu balanced XLR, +22dBu unbalanced 1/4"jack
	AUX Returns gain range	OFF to +15dB
	AUX Sends max out	+22dBu
Power supply (AC/AC Adaptor)	Main voltage	USA/Canada 100 - 120V ~, 60Hz Europe 210 - 230V ~, 50Hz U.K./Australia 240V ~, 50Hz
	Power consumption	12 Channels Mixer → 30watts
Physical	Dimension (WxDxH)	12 Channels Mixer → 315 x 436 x 86mm
	Net weight	12 Channels Mixer → 5.1 kg without Adapter



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MANUFACTURER'S DECLARATIONS HERSTELLERERKLÄRUNGEN

EN

LIMITED WARRANTY

This Limited Warranty applies to the Adam Hall, LD Systems, Defender, Palmer and Eminence branded products.

The statutory warranty rights towards the seller are not affected by this guarantee. In fact, it justifies, additional independent warranty claims towards Adam Hall.

Adam Hall warrants that the Adam Hall product you have purchased from Adam Hall or from an Adam Hall authorized reseller is free from defects in materials or workmanship under normal use for a period of 2 or 5 years from the date of purchase.

The Limited Warranty Period starts on the date of purchase. In order to receive warranty services you are required to provide proof of the purchase date. Your dated sales or delivery receipt, showing the date of purchase, is your proof of the purchase date. Should products of the brands named above be in need of repair within the limited warranty period, you are entitled to warranty services according to the terms and conditions stated in this document.

This Limited Warranty extends only to the original purchaser of this Adam Hall branded product and is not transferable to anyone who obtains ownership of the Adam Hall branded product from the original purchaser. During the Limited Warranty Period, Adam Hall will repair or replace the defective component parts or the product. All component parts or hardware products removed under this Limited Warranty become the property of Adam Hall.

In the unlikely event that your Adam Hall product has a recurring failure, Adam Hall, at its discretion, may elect to provide you with a replacement unit of Adam Hall's choice that is at least equivalent to your Adam Hall branded product in hardware performance.

Adam Hall does not warrant that the operation of this product will be uninterrupted or error-free. Adam Hall is not responsible for damage that occurs as a result of your failure to follow the instructions included with the Adam Hall branded product.

This Limited Warranty does not apply,

- to wear parts (e.g. accumulator)
- to any product from which the serial number has been removed or that has been damaged or rendered defective as the result of an accident
- in case of, misuse, abuse, or other external causes
- by operation outside the usage parameters stated in the user's documentation shipped with the product
- by use of spare parts not manufactured or sold by Adam Hall
- by modification or service by anyone other than Adam Hall

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.

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 hardware components that malfunction in 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. This limitation of liability cannot be waived or amended by any person. This limitation of liability will be effective even if you have advised Adam Hall of an authorized representative of Adam Hall of the possibility of any such damages. This limitation of liability however, will not apply to claims for personal injury.

This Limited Warranty gives you specific legal rights. You may also have other rights that may vary from state to state or from country to country. You are advised to consult applicable state or country 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.

EU-DECLARATION OF CONFORMITY

These products meet the essential requirements as well as the further standards of the EU Directives 1999/5/EU, 89/336/EU.

CORRECT DISPOSAL OF THIS PRODUCT (ELECTRICAL WASTE)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

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.

DE

GARANTIEBESTIMMUNGEN

Diese Garantie erstreckt sich auf die Marken Adam Hall, LD Systems, Defender, Palmer und Eminence.

Die gesetzlichen Gewährleistungsrechte gegenüber dem Verkäufer werden von dieser Garantie nicht berührt. Vielmehr begründet diese Garantie zusätzliche selbständige Ansprüche gegenüber Adam Hall.

Mit dieser Garantie stellt Adam Hall sicher, dass das von Ihnen bei Adam Hall oder einem Adam Hall Partner erworbene Produkt bei normalem Gebrauch während des Zeitraums von 2 bzw. 5 Jahren ab Kaufdatum frei von Material- oder Verarbeitungsfehlern ist.

Der Garantiezeitraum beginnt mit dem Datum des Kaufs.

Der Geltendmachung eines Anspruchs auf Garantieleistungen erforderliche Nachweis des Kaufdatums, erfolgt durch die mit dem Kaufdatum versehene Quittung oder den mit dem Kaufdatum versehenen Lieferschein. Sie haben Anspruch auf den Garantieservice zu den in diesem Dokument aufgeführten Bedingungen und Bestimmungen, falls eine Reparatur der unter den oben genannten Marken vertriebenen Produkte innerhalb des Garantiezeitraums erforderlich ist.

Diese Garantie gilt nur für den ursprünglichen Käufer des von Adam Hall vertriebenen Produkts und ist nicht an Personen übertragbar, denen vom ursprünglichen Käufer das Eigentum am Adam Hall Produkt übertragen wird. Innerhalb des Garantiezeitraums werden die fehlerhaften Komponenten oder das Produkt von Adam Hall repariert oder ersetzt. Alle im Rahmen dieser Garantie entfernten Komponenten und Hardware-Produkte gehen in das Eigentum von Adam Hall über.

In dem unwahrscheinlichen Fall, dass bei dem von Ihnen erworbenen Adam Hall Produkt ein Fehler wiederholt auftritt, kann Adam Hall nach eigenem Ermessen entscheiden, Ihnen dieses Produkt durch ein vergleichbares Produkt mit mindestens derselben Leistung zu ersetzen.

Adam Hall übernimmt keine Garantie für einen störungs- oder fehlerfreien Betrieb dieses Produkts. Adam Hall übernimmt keine Verantwortung für auf eine inkorrekte Befolgung der im Lieferumfang des Adam Hall erhaltenen Anweisungen zurückzuführende Schäden.

Diese Garantie erstreckt sich nicht auf

- Verschleißteile (z.B. Akkumulator),
- Geräte deren Seriennummer entfernt wurde oder die beschädigt oder fehlerhaft wurden als Folge eines Unfalls
- nicht sachgerechter oder missbräuchlicher Verwendung oder anderer missbräuchlicher Verwendung oder anderer äußerer Ursachen,
- Geräte die nicht entsprechend den Betriebsparametern betrieben wurden, die in den im Lieferumfang des Produkts enthaltenen Benutzerunterlagen festgelegt sind
- Geräte die aufgrund der Verwendung nicht von Adam Hall hergestellter oder vertriebener Teile repariert wurde
- Geräte die durch Änderung oder Wartung durch jemand anderen als Adam Hall getätigt wurde.

Diese Bestimmungen und Bedingungen stellen die vollständige und ausschließliche Garantievereinbarung zwischen Ihnen und Adam Hall für das von Ihnen erworbene Adam Hall Produkt dar.

HAFTUNGSBESCHRÄNKUNG

Wenn das unter der Marke Adam Hall vertriebene Produkt nicht entsprechend der obigen Garantie funktioniert, besteht Ihr alleiniger und ausschließlicher Anspruch aus dieser Garantie in der Reparatur oder dem Ersatz. Weitergehende Gewährleistungsansprüche bleiben hiervon unberührt. Die maximale Haftung von Adam Hall im Rahmen dieser Garantie ist ausdrücklich beschränkt auf den jeweils niedrigeren Betrag, der sich entweder aus dem Kaufpreis für das Produkt oder aus den Reparatur- bzw. Ersatzkosten von Hardware-Komponenten, die bei normalem Gebrauch nicht Ordnungsgemäß funktionieren, ergibt.

Adam Hall haftet aus dieser Garantie nicht für durch das Produkt oder sein versagen verursachte Schäden, einschließlich entgangener Gewinne, unterbliebener Einsparungen oder besonderer, indirekter oder Folgeschäden. Adam Hall haftet zudem nicht für von Dritten oder von ihnen für Dritte geltend gemachte Ansprüche.

Diese Haftungsbeschränkung gilt unabhängig davon, ob Schäden gerichtlich verfolgt werden, ob Schadenersatzansprüche im Rahmen dieser Garantie oder aufgrund unerlaubter Handlungen (Einschließlich Fahrlässigkeit und Gefährdungshaftung) oder aufgrund vertraglicher bzw. sonstiger Ansprüche gestellt werden. Diese Haftungsbeschränkung kann von keiner Person aufgehoben oder ergänzt werden. Diese Haftungsbeschränkung gilt auch dann, wenn Sie Adam Hall über die Möglichkeit derartiger Schäden informiert haben. Sie gilt jedoch nicht für Ansprüche aus Personenschäden.

Aus dieser Garantie ergeben sich für Sie bestimmte Rechte. Möglicherweise haben Sie weitere Rechte, die Ihnen von Staat zu Staat und von Land zu Land unterschiedlich sein können. Es ist ratsam, die entsprechenden Gesetze des Staates bzw. Landes heranzuziehen, um Ihre Rechte umfassend zu ermitteln.

INANSPRUCHNAHME DES REPARATURSERVICE

Um den Garantieservice bzw. Reparaturservice für das Produkt in Anspruch zu nehmen, wenden Sie sich bitte an Adam Hall oder an einen Adam Hall Partner, bei dem Sie das Produkt erworben haben.

EG-KONFORMITÄTSERKLÄRUNG

Diese Geräte entsprechen den grundlegenden Anforderungen und den weiteren Vorgaben der Richtlinien 1999/5/EU, 89/336/EU und 73/23/EU.

KORREKTE ENTSORGUNG DIESES PRODUKTES

(Gültig in der Europäischen Union)

Dieses Symbol (entweder auf dem Gerät oder dem dazugehörigen Handbuch) weist darauf hin, dass das Gerät nicht mit dem normalen Hausmüll entsorgt werden darf. Um mögliche Schäden an der Umwelt und an Personen zu verhindern, entsorgen Sie dieses Gerät bitte fachgerecht bei einer entsprechenden Stelle für Elektromüll.

Als Privatkunde informieren Sie sich bitte beim Hersteller oder bei Ihrer Gemeinde über die Möglichkeiten der korrekten Entsorgung.

Als Geschäftskunde kontaktieren Sie bitte Ihren Lieferanten und prüfen Sie die Konditionen zur Entsorgung der Geräte. Dieses Produkt sollte nicht mit anderem gewerblichen Abfall entsorgt werden.

DÉCLARATIONS DU FABRICANT DECLARACIÓN DEL FABRICANTE

FR

GARANTIE LIMITÉE:

Cette garantie limitée s'applique aux produits de la marque Adam Hall, LD Systems, Defender, Palmer et Eminence.

Les droits inhérents à la garantie légale vis-à-vis du revendeur ne sont pas affectés par cette garantie. En fait elle justifie d'une garantie supplémentaire indépendante auprès de la société Adam Hall.

La société Adam Hall garantit que le produit que vous avez acheté Adam Hall ou à l'un de ses revendeurs officiels, est exempt de défaut matériel et d'usure pour une durée de 2 ans (ou 5 ans pour les produits Palmer) à partir de la date d'achat, lorsqu'il est utilisé dans des conditions normales.

La période de garantie limitée débute le jour de l'achat du produit. Pour bénéficier de cette garantie vous devez produire une preuve d'achat sur laquelle figure la date d'achat du produit (ex : ticket de caisse daté, bon de livraison daté...). Si un produit d'une des marques citées ci-dessus venait à nécessiter une réparation durant la période de garantie limitée, vous aurez alors le droit de bénéficier des services de la garantie selon les termes et conditions mentionnés par ce document.

Cette garantie limitée ne s'applique qu'à l'acheteur initial de ce produit Adam Hall et ne peut être en aucun cas transférée à un tiers devenu propriétaire du produit. Durant la période de garantie limitée, Adam Hall s'engage à réparer ou remplacer les pièces défectueuses du produit. Toutes les pièces ou éléments démontés lors d'une réparation par Adam Hall deviennent la propriété d'Adam Hall.

Dans le cas improbable d'un défaut récurrent, Adam Hall peut, à sa discrétion, décider de vous fournir un produit de remplacement de son choix, dont les capacités techniques sont au moins équivalentes à celles de votre produit initial.

Adam Hall ne garantit pas que le fonctionnement de ce produit sera exempt d'erreur ou ininterrompu. Adam Hall ne peut pas être rendu responsable des dégâts résultant de votre manquement à suivre les instructions d'utilisation fournies avec votre produit.

Cette garantie limitée ne s'applique pas,

- aux pièces d'usure (ex: piles)
- aux produits dont le numéro de série a été effacé ou aux produits endommagés ou rendus défectueux par accident
- dans le cas d'une utilisation non conforme aux conditions normales d'utilisation, dans le cas d'abus ou toute autre cause externe
- dans le cas d'un usage du produit en dehors des paramètres d'utilisation stipulés dans la documentation fournie avec le produit
- dans le cas de l'usage de pièces de remplacement n'étant pas fabriquées ou vendues par Adam Hall
- dans le cas d'une modification du produit ou d'une réparation par quiconque autre qu'Adam Hall

Ces termes et conditions constituent l'accord de garantie complet et exclusif entre vous et Adam Hall concernant le produit de la marque Adam Hall que vous vous êtes procuré.

LIMITATION DE RESPONSABILITÉ

Si votre produit Adam Hall devait ne pas fonctionner correctement, votre seul et unique dédommagement sera la réparation du produit ou son remplacement. La responsabilité maximale imputable à Adam Hall dans le cadre de cette garantie limitée se limite au montant le plus bas. Ce montant découle du prix d'achat du produit ou bien du coût de la réparation ou des pièces de remplacement qui sont tombés en panne dans des conditions d'utilisation normales.

Adam Hall n'est pas responsable des dommages causés par le produit ou par un dysfonctionnement du produit, y compris les pertes de profits, les pertes d'épargne, et les conséquences inhérentes à ces dommages. La responsabilité d'Adam Hall ne peut pas être engagée dans le cas d'une réclamation par un tiers ou dans le cas d'une réclamation émanant de l'acheteur initial pour le compte d'un tiers.

Cette limitation de responsabilité est valable indépendamment du fait que les dommages commis fassent l'objet de poursuites judiciaires, qu'ils fassent l'objet de réclamation (y compris pour négligence), de réclamations contractuelles ou tout autre réclamation. Cette limitation de responsabilité ne peut être amendée ou dérogée par quiconque. Elle est effective même si vous avez avisé Adam Hall ou l'un de ses représentants officiels de la possibilité d'un tel dommage. Toutefois cette limitation de responsabilité est sans effet dans le cas de réclamations pour dommages corporels.

Cette garantie limitée vous confère des droits légaux spécifiques. Selon votre pays, ou l'état dans lequel vous vous trouvez, il est possible que vous disposiez d'autres droits. Veuillez consulter les lois applicables dans votre pays ou votre État pour déterminer l'ensemble de vos droits.

FAIRE FONCTIONNER LA GARANTIE

Pour faire fonctionner la garantie sur ce produit, veuillez contacter Adam Hall ou le revendeur agréé auquel vous avez acheté le produit.

UE-DÉCLARATION DE CONFORMITÉ

Ces produits sont conformes aux exigences essentielles des directives européennes 1999/5/EU, 89/336/EU ainsi qu'à leurs clauses additionnelles.

ÉLIMINATION CORRECTE DES DÉCHETS (déchets électroménagers)

(Applicable dans l'Union Européenne et dans les autres pays européens disposant d'un système de tri des déchets)

Ce signe figurant sur le produit, ou dans la brochure jointe au produit, indique qu'il ne doit pas être jeté dans le même bac à ordures que les déchets ménagers classiques lorsqu'il arrive en fin de vie. Pour écarter les risques de pollution de l'environnement ou les risques d'intoxication humaine dûs à un mauvais traitement des déchets, veuillez séparer ce produit des autres types de déchets. Il sera ainsi inséré dans la boucle du recyclage et ces composants pourront être traités puis éventuellement réutilisés.

Nous recommandons aux particuliers de contacter leur revendeur local ou les autorités locales pour s'informer de la meilleure façon de traiter les déchets électroménagers.

Les professionnels doivent contacter leur fournisseur et examiner avec lui les termes et conditions de leur contrat d'achat. Ce produit ne doit pas être mélangé aux déchets industriels.

ES

GARANTÍA LIMITADA ADAM HALL

Esta Garantía Limitada es aplicable a todos los productos de la marca Adam Hall, LD Systems, Defender, Palmer y Eminence.

Los derechos inherentes a la garantía legal del distribuidor no están afectados por esta garantía. Es decir, esta garantía representa unos derechos y obligaciones adicionales con Adam Hall.

La empresa Adam Hall garantiza que los productos adquiridos a Adam Hall o a alguno de sus distribuidores oficiales están exentos de defectos en sus materiales y en su fabricación en condiciones normales de uso, durante un periodo de 2 años (o 5 años para los productos de la marca Palmer) a contar a partir de la fecha de factura.

El periodo de Garantía Limitada empieza a contar a partir de la fecha en que se compra el producto. Para beneficiar de los derechos de esta garantía el comprador deberá probar la fecha en que se compró el producto ya sea con una factura, ticket de caja o un albarán de entrega en el cual aparezca la fecha de compra.

Si el producto adquirido necesitara de una reparación dentro del plazo establecido por esta garantía, el comprador podrá beneficiarse de los servicios inherentes a la garantía establecidos en este documento.

Esta garantía se extiende solamente al comprador original del producto Adam Hall y en ningún caso es transferible a terceros que hayan adquirido este producto por parte del comprador original. Durante el periodo de garantía, Adam Hall se compromete a reparar o reemplazar los componentes defectuosos del producto. Todas las piezas y/o componentes desmontados durante la reparación del mismo pasarán a ser propiedad de Adam Hall.

En el caso poco probable de que su producto Adam Hall tenga un problema recurrente, la empresa Adam Hall a su discreción, podrá tomar la decisión de enviarle un producto de repuesto similar, con características técnicas equivalentes a su producto inicial.

Adam Hall no garantiza que el funcionamiento de este producto esté libre de errores o sea interrumpido. Adam Hall no se hace responsable por posibles daños ocurridos al producto en caso de que el comprador no haya seguido debidamente las instrucciones facilitadas con el producto.

Esta Garantía Limitada no es aplicable:

- Para los consumibles (pilas, etc.)
- Para productos en los cuales el número de serie ha sido borrado o productos dañados y defectuosos a causa de un accidente.
- En caso de un uso inadecuado y no conforme a las condiciones normales de uso del producto, en caso de abuso u otras causas externas.
- En caso de funcionamiento fuera de los parámetros estipulados en la documentación facilitada con el producto.
- En caso de la utilización de piezas de recambio no facilitadas o fabricadas por Adam Hall.
- En caso de reparación o modificación realizada al producto por cualquier persona/empresa otra que Adam Hall.

Estos términos y condiciones constituyen la totalidad y exclusividad del acuerdo entre Vd. y Adam Hall al adquirir un producto de la marca Adam Hall

LIMITACIONES DE RESPONSABILIDAD

Si el producto que Vd. ha adquirido a Adam Hall tuviera algún problema de malfuncionamiento dentro de los términos estipulados en la garantía, la indemnización máxima por parte de Adam Hall será la reparación o reposición del producto. La responsabilidad máxima imputable a Adam Hall en los términos de esta garantía se limita al importe equivalente al precio de compra del producto, al coste de su reparación o bien de las piezas de recambio para su correcto funcionamiento en condiciones normales.

Adam Hall no es responsable de cualquier daño causado por el malfuncionamiento del producto o por el producto en sí, incluidas la pérdida de ganancias, pérdida de ahorros o cualquier consecuencia derivada de las mismas. No se podrá pedir responsabilidades a Adam Hall por parte de un tercero o por parte del comprador inicial a cuenta de un tercero.

Las limitaciones de responsabilidad de esta garantía son aplicables con independencia a posibles reclamaciones judiciales, reclamaciones por negligencia, contractuales o cualquier otro tipo de reclamación. Esta limitación de responsabilidad no puede ser derogada o modificada por nadie. Esta limitación de responsabilidad será efectiva incluso en el caso de que el comprador hubiese avisado previamente a Adam Hall o a alguno de sus representantes de los posibles daños causados. En cualquier caso esta limitación de responsabilidad no será aplicable a reclamaciones por daños corporeales.

Esta Garantía Limitada proporciona al comprador de los productos de la marca Adam Hall una serie de derechos legales específicos. Según el país o Estado en el que se encuentre puede que sus derechos legales sean diferentes. Le recomendamos que consulte las leyes aplicables en su país o Estado para determinar cuáles son sus derechos legales.

UTILIZACIÓN DE ESTA GARANTÍA

Para hacer uso de la Garantía Limitada de este producto, le rogamos contacte con Adam Hall o con el distribuidor oficial que le vendió el producto.

EU DECLARACION DE CONFORMIDAD

Estos productos son conformes con las directivas generales europeas 1999/5/EU, 89/336/EU así como de sus cláusulas adicionales.

ELIMINACIÓN CORRECTA DE DESECHOS RESIDUALES (DESECHOS ELECTRODOMÉSTICOS)

(De aplicación en todos los países de la Unión Europea y de otros países que dispongan de un sistema de selección de desechos).

Si este símbolo figura en el producto o en la documentación adjunta al producto, significa que no debe ser tirado en los mismos contenedores que los desechos del hogar una vez llegado a su fin de vida útil. Para evitar los riesgos de contaminación del medioambiente o intoxicación humana le rogamos separe este producto de los demás desechos.

Si Vd. es un particular le recomendamos contacte con su proveedor local o a las autoridades locales para informarse de la mejor forma de tratar este tipo de desechos.

Si Vd. es profesional le recomendamos contacte con su proveedor para comprobar los términos de su contrato de compra/venta. Este producto no se puede mezclar con otros productos industriales.

adam hall

www.adamhall.com