

A Duo **ACOUSTIC**

USER MANUAL

www.laney.co.uk



British Engineering from the
Black Country United Kingdom

www.laney.co.uk



Dear Player,

Thank you very much for purchasing your new Laney product and becoming part of the worldwide Laney family. Each and every Laney unit is designed and built with the utmost attention to care and detail, so I trust yours will give you many years of enjoyment.

Laney products have a heritage which stretches back to 1967 when I first began building valve amplifiers in my parents' garage.

Since then we have moved on from strength to strength developing an extensive range of guitar, bass, public address, multi instrument and keyboard amplification products along with a list of Laney endorsees that includes some of the world's most famous and respected musicians.

At the same time we believe we have not lost sight of the reason Laney was founded in the first place - a dedication to building great sounding amplification for working musicians.

Warm Regards,

A handwritten signature in black ink, appearing to read 'Lyndon Laney', with a stylized, flowing script.

Lyndon Laney
Chairman and Founder.

INTRODUCTION



Welcome and thank you for choosing the new A-DUO.

The A-DUO is a professional, compact and portable acoustic guitar amplifier, focussed towards quality performance. Uniquely designed for you to sit on whilst playing, the control panel is placed to be easily accessible during your performance.

The A-DUO is equipped with two independent channels capable of accepting either XLR or Jack inputs via the XLR combi inputs so whatever output system your acoustic guitar has the A-DUO has it covered. With a high quality on-board Reverb and Chorus the A-DUO lets you choose to enhance your guitar sound without losing any of the quality of your original guitar tone.

Although designed primarily for acoustic guitar the A-DUO is equally at home handling a keyboard or a vocal mic, making the A-DUO ideally suited as a small PA system for party jams or intimate performances.

Please continue to read the rest of this manual as it is the key to getting the best out of your A-Duo.

IMPORTANT SAFETY INSTRUCTIONS

- 1). **Read & Retain these Instructions** carefully before installing or operating this product.
- 2). **Comply with Warnings:** All warnings and instructions for these products should be adhered to.
- 3). **Unpacking:** On unpacking your product please check carefully for any signs of damage that may have occurred whilst in transit from the Laney factory to your dealer. In the unlikely event that there has been damage, please repack your unit in its original carton and consult your dealer. We strongly advise you to keep your original transit carton, since in the unlikely event that your unit should develop a fault, you will be able to return it to you dealer for rectification securely packed.
- 4). **Amplifier Connection:** In order to avoid damage, it is advisable to establish and follow a pattern for turning on and off your system. With all system parts connected, turn on source equipment, CD/MP3 players, mixers/recorders, etc, BEFORE turning on your guitar amplifier. Many products have large transient surges at turn on and off which can cause damage to your speakers. By turning on your guitar amplifier LAST and making sure its level control is set to a minimum, any transients from other equipment should not reach your loud speakers. Wait till all system parts have stabilised, usually a couple of seconds. Similarly when turning off your system always turn down the level controls on your guitar amplifier and then turn off its power before turning off other equipment
- 5). **Servicing:** Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the DC Power Supply is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 6). **Placement:** This electrical apparatus should not be exposed to dripping or splashing and care should be taken not to place objects containing liquids, such as vases, upon the apparatus.
Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat. Do not block any of the ventilation openings.
Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 7). **Sound Levels:** Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time.
The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures: According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss. Earplugs or protectors to the ear canals or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss, if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.
- 8). **Maintenance:** Clean only with a dry cloth.
- 9). **Pole Stand:** Don't over-extend poles/tripods; ensure at least 4 x the diameter is still inside the outer pole.
Make sure the legs have a good splay on the tripod, but do not obstruct doorways or other access-ways. Ensure the unit is stable and cannot fall over.
Care of your Laney amplifier will prolong it's life.....and yours!

Duration Per Day in Hours	Sound Level dBA, slow response
8	90
6	92
4	95
3	97
2	100
1 ½	102
1	105
½	110
¼ or less	115



Intended to alert the user to the presence of uninsulated 'Dangerous Voltage' within the products enclosure that may be sufficient to constitute a risk of electrical shock to persons.

Ce symbole est utilisé pour indiquer à l'utilisateur de ce produit de tension non-isolée dangereuse pouvant être d'intensité suffisante pour constituer un risque de choc électrique.

Este símbolo tiene el propósito de alertar al usuario de la presencia de '(voltaje) peligroso' que no tiene aislamiento dentro de la caja del producto que puede tener una magnitud suficiente como para constituir riesgo de corrientazo.

Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Stärke sind, um einen elektrischen Schlag verursachen zu können.



Intended to alert the user of the presence of important operating and maintenance (Servicing) instructions in the literature accompanying the product.

Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Stärke sind, um einen elektrischen Schlag verursachen zu können.

Este símbolo tiene el propósito de alertar al usuario de la presencia de instrucciones importantes sobre la operación y mantenimiento en la literatura que viene con el producto.

Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.

CAUTION:

Risk of electrical shock - DO NOT OPEN.

To reduce the risk of electrical shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified personnel.

ATTENTION:

Risques de choc électrique - NE PAS OUVRIER

Afin de réduire le risque de choc électrique, ne pas enlever le couvercle. Il ne se trouve à l'intérieur aucune pièce pouvant être réparée par l'utilisateur. Confier l'entretien à un personnel qualifié.

PRECAUCION:

Riesgo de corrientazo - no abra

Para disminuir el riesgo de corrientazo, no abra la cubierta. No hay piezas adentro que el pueda reparar. Deje todo mantenimiento a los técnicos calificados.

VORSICHT:

Risiko - Elektrischer Schlag! Nicht öffnen!

Um das Risiko eines elektrischen Schlags zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vom Anwender repariert werden könnten. Reparaturen nur von qualifiziertem Fachpersonal durchführen lassen.

WARNING:

To prevent electrical shock or fire hazard, do not expose this appliance to rain or moisture. Before using this appliance please read the operating instructions for further warnings.

ADVERTISSEMENT:

Afin de prévenir les risques de décharge électrique ou de feu, n'exposez pas cet appareil à la pluie ou à l'humidité. Avant d'utiliser cet appareil, lisez les avertissements supplémentaires situés dans le guide.

ADVERTENCIA:

Para evitar corrientazos o peligro de incendio, no deja expuesto a la lluvia o humedad este aparato Antes de usar este aparato, lea más advertencias en la guía de operación.

ACHTUNG:

Um einen elektrischen Schlag oder Feuergefahr zu vermeiden, sollte dieses Gerät nicht dem Regen oder Feuchtigkeit ausgesetzt werden. Vor Inbetriebnahme unbedingt die Bedienungsanleitung lesen.

After unpacking your amplifier check that it is factory fitted with a three pin 'grounded' (or earthed) plug. Before plugging into the power supply ensure you are connecting to a grounded earth outlet.

If you should wish to change the factory fitted plug yourself, ensure that the wiring convention applicable to the country where the amplifier is to be used is strictly conformed to. As an example in the United Kingdom the cable colour code for connections are as follows.

EARTH or GROUND GREEN/YELLOW
NEUTRAL - BLUE
LIVE - BROWN



NOTE

This manual has been written for easy access of information. The front and rear panels are graphically illustrated, with each control and feature numbered. For a description of the function of each control feature, simply check the number with the explanations adjacent to each panel.

Your Laney amplifier has undergone a thorough two stage, pre-delivery inspection, involving actual play testing.

When you first receive your Laney guitar amplifier, follow these simple procedures:

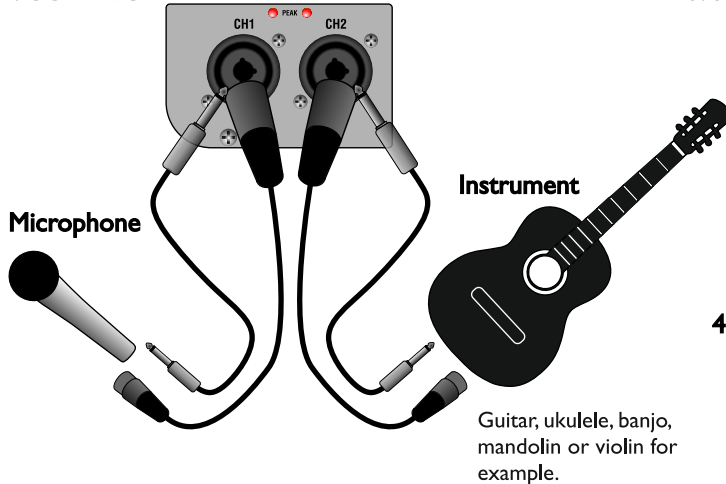
(i) Ensure that the amplifier is the correct voltage for the country it is to be used in.

(ii) Connect your instrument with a high quality shielded instrument cable. You have probably spent considerable money on your amplifier and guitar - don't use poor quality cable it won't do your gear justice.

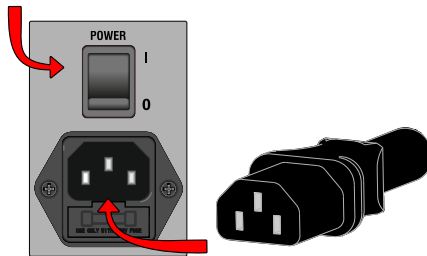
Please retain your original carton and packaging so in the unlikely event that some time in the future your amplifier should require servicing you will be able to return it to your dealer securely packed.

Care of your Laney amplifier will prolong it's life.....and yours!

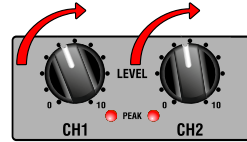
I. CONNECT



2. POWER-UP



3. SET LEVELS

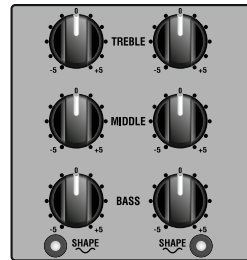


Slowly increase the Level control until the Peak led begins to flash during the loudest peaks of the music.



Increase the Volume control until the required listening level is achieved.

4. ADD EQ



Fine tune your sound with the 3-band EQ and Shape control, add to the overall tone with Cabinet EQ (17), or experiment with a mixture of the three.



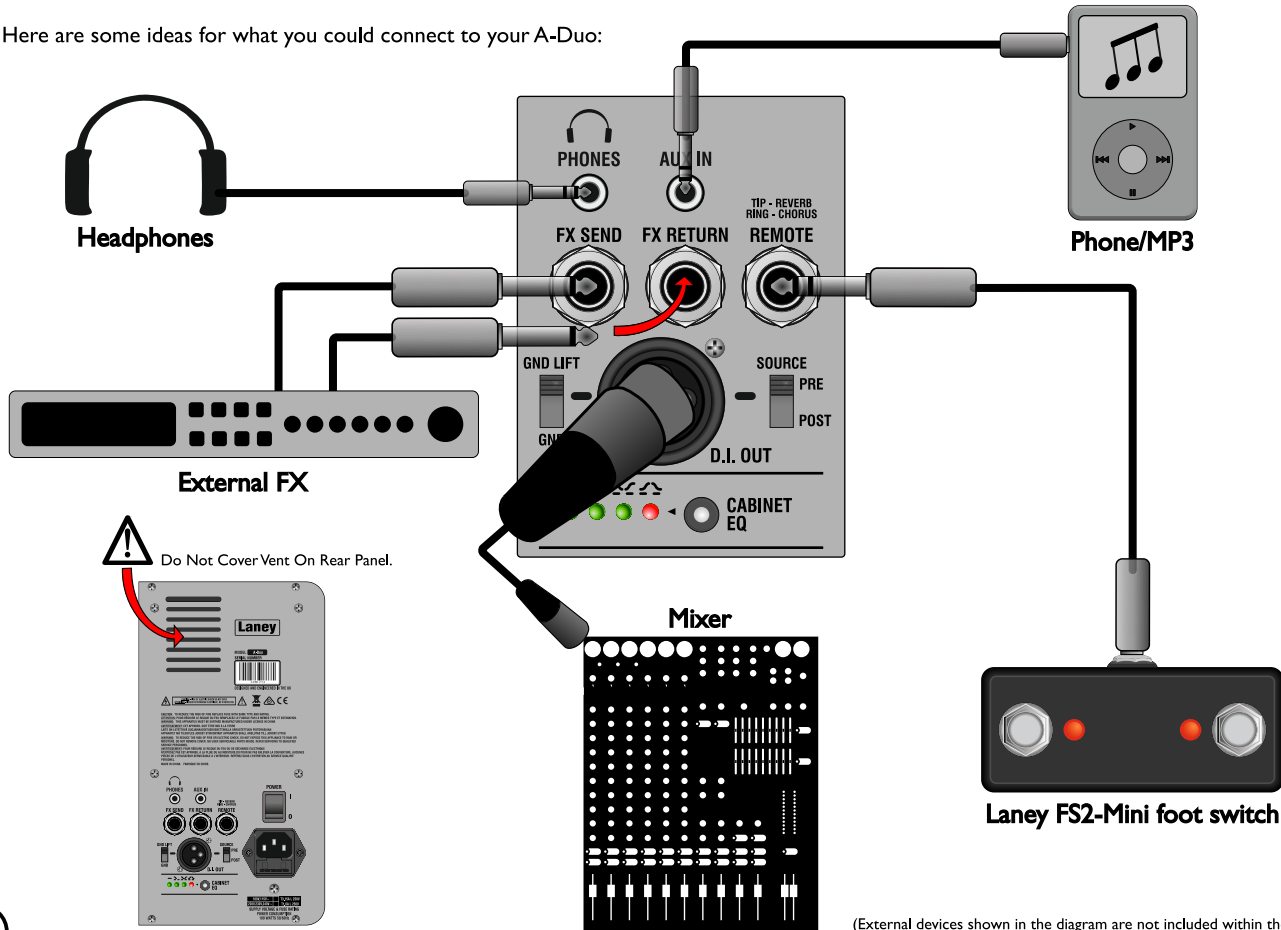
5. ADD FX



If required, add independently assignable Chorus and Reverb.

SAMPLE SETUP

Here are some ideas for what you could connect to your A-Duo:



(External devices shown in the diagram are not included within the A-Duo package.)

1. CH1/CH2 MIC/LINE INPUT: Combi sockets provide the flexibility to connect either a balanced XLR or unbalanced jack terminated cable. Set Level control (2) to minimum before connecting a device to the Mic/Line inputs. For best results, always use a good quality instrument/mic cable.

TIP— Phantom Power (15V non switchable) is available from the XLR Inputs only. This is for use with condenser microphones, but dynamic mic's won't be damaged if used.

2. LEVEL/PEAK: Use together to find the optimum level for your signal. Adjust the Level so the Peak only lights during the very highest peaks of the connected signal.

TIP— Peak illuminates constantly = possible distortion. Damage won't occur to the amplifier, but audio quality may suffer.

TIP— Peak is never illuminated = slightly reduced signal to noise ratio as amplifier is not running at optimum levels.

3. SHAPE: Engages an EQ circuit to give a brighter, more extended top end and scooped mid to provide more definition.

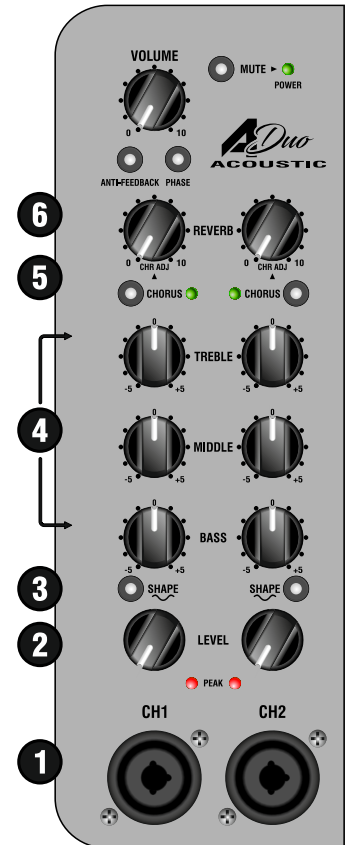
4. EQ: A traditional set of tone controls giving the player a natural set of tools to shape their ideal sound. As a starting point, set the EQ controls to the 0 position.

5. CHORUS: To engage the Chorus press the Chorus switch. The adjacent LED lights only when the effect is active. To adjust the chorus amount, press and hold the Chorus switch (while the chorus is active) and adjust using the Reverb control. Once you release the Chorus switch, the LED will briefly flash to indicate the setting has been stored.

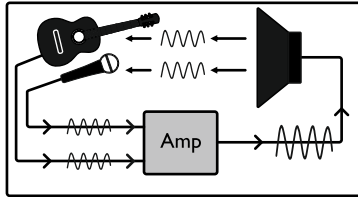
TIP— The amplifier is shipped with a Chorus level of 3.

6. REVERB LEVEL: Use these to independently control the reverb/chorus for channels 1 and 2. The Reverb Level increases progressively as you move the control from 0 to 10.

TIP— Also controls Chorus Level.



FRONT PANEL CONTINUED



Audio feedback is caused when a loop occurs between a microphone or guitar pickup and the loudspeaker. Commonly caused by pointing a microphone at a speaker or simply by the two being too close. The result is an unpleasant screeching or whistling sound. The A-Fresco is equipped to deal with this.

7. ANTI-FEEDBACK: When the Anti-Feedback control is enabled the A-Duo actively and automatically searches for any signs of feedback (over multiple frequencies) and eliminates it before becoming a serious problem.

TIP—If you have microphones connected, enable the Anti-Feedback.

8. PHASE: Switches the phase of the signal from the amplifier. When you play any acoustic guitar the sound it produces is a waveform, the same applies to an acoustic guitar plugged into an acoustic amplifier. It is not uncommon for these two waveforms to be out of phase with each other. To a player sat close to an amplifier this poses a small problem if the wave forms are out of phase as they are destructive to each other and cancel each other out. This would cause the guitar to sound a little thin and lack-lustre in close proximity. Engaging the phase switch switches the phase of the amplified signal removing the problem of destructive interference. However sometimes the low frequencies being in phase can cause acoustic feed back problems, to avoid this try operating the phase reversal switch. Most times this will cure the problem. One thing to point out is that the audience does not hear any phase problems as by the time the sound wave reaches them any phase differences have been cancelled out naturally.

9. VOLUME: To control the overall output level from Phones, FX Send, D.I. Out and Speakers.

10. MUTE: This will mute Inputs 1 and 2, but not signals connected to AUX IN or FX RETURN.

TIP—The Power Led will flash when the Mute is enabled, ideal for tuning.

11. POWER: Illuminates when the Power Switch is set to on.



REAR PANEL

12. PHONES: For silent practice or late night playing just connect your favourite headphones to the 3.5mm jack socket.

TIP—When headphones are connected, the internal loudspeakers are automatically turned off.

13. AUX IN: Play along to your favourite tracks by connecting a MP3 player (or any other line level device) using a stereo 3.5mm jack. (See sleep mode disable page 11)

14. FX LOOP: Gives you the option to route the pre-amp signal through an additional FX unit. This could be in addition to or as an alternative to the onboard FX.

15. REMOTE: Connect an FS2-Mini (2-way) foot switch and independently control Reverb and Chorus remotely.

Ring: Chorus

Tip: Reverb

16. D.I. OUT: This socket provides a balanced output for direct injection of the amplifier signal into a mixing desk mic input. Using the Source switch, choose if the signal is Pre or Post EQ, FX and Mute. Refer to the block diagram on page 13.

Finally, a ground lift switch is also provided to reduce the possibility of earth loop induced hum (when connecting to other equipment).

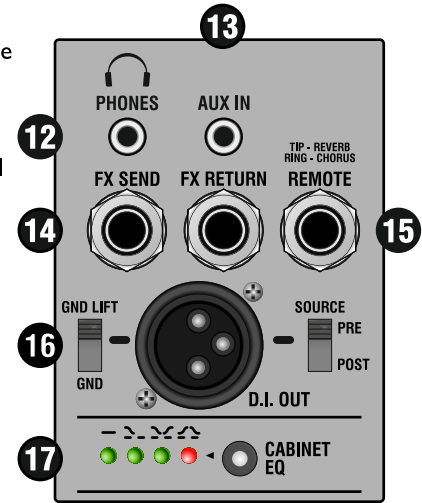
17. EQ: This dual function switch allows you to select one of four pre-defined EQ curves allowing you to adjust the tonal balance. To toggle from one to the next simply press the switch momentarily. An adjacent LED will clearly indicate what's selected. The EQ setting will be stored in memory, ready for use next time.

Flat: General purpose EQ setting - ideal for floor use.

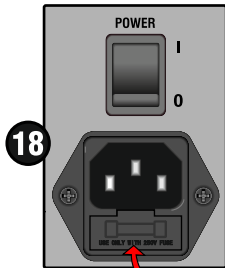
Bass: An increase in the low frequency content of your audio. Ideal when the A-Duo is pole mounted to compensate for bass loss.

Loud: An increase in both low and high frequencies. Ideal for pole mounted use with added definition.

Vocal: Decreases the amount of bass and emphasises the vocal content. Also ideal for outdoors.



USING THE A-DUO



100V,115V~	T3.15A L 250V
220V,230V,240V~	T1.6A L 250V
SUPPLY VOLTAGE & FUSE RATING	
POWER CONSUMPTION	
100 WATTS 50/60Hz	

TIP A Spare fuse is stored in the fuse tray.

18. MAINS INLET AND POWER SWITCH:

A Universal mains input for worldwide usage without the need to change anything except your power cord and fuse rating. The fuse rating will be correct for the country in which the unit was sold. If used else where, check the fitted fuse is of the correct rating. See information on A-Duo rear panel.

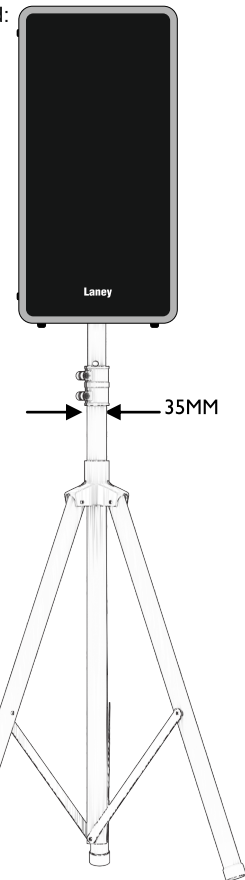
The unit must be earthed under all circumstances!

Set Power switch to the off position (0) and disconnect the power connector when the amplifier is not in use.

Floor mounted - vertical:



Pole mounted:

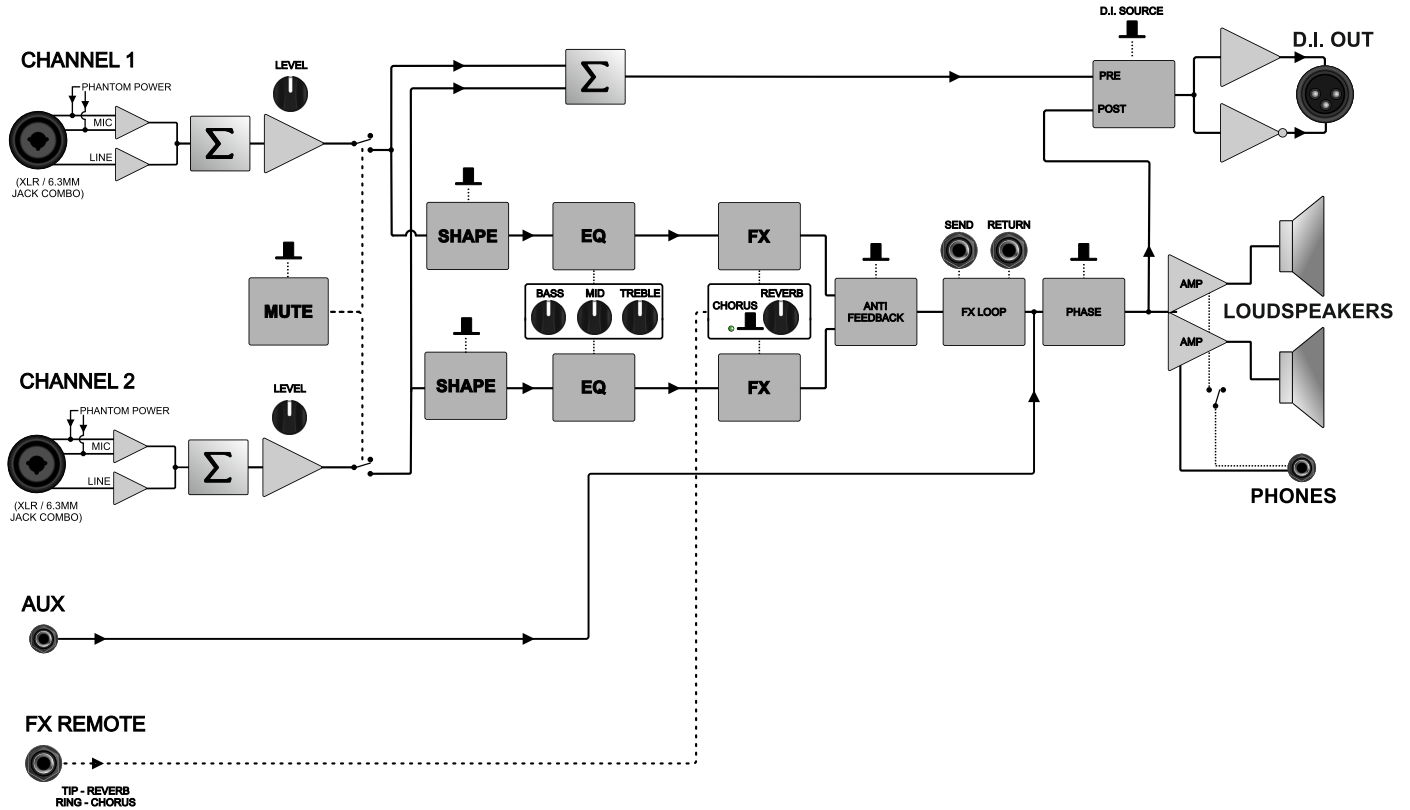


Floor mounted - horizontal:



(Badge can be rotated.)

BLOCK DIAGRAM



FCC COMPLIANCY STATEMENT



This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference
- 2) This device must accept any interference received, that may cause undesired operation.

Warning: Changes or modification to the equipment not approved by Laney can void the user's authority to use the equipment.

Note: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



This product conforms to the requirements of the following European Regulations, Directives & Rules:

CE Mark (93/68/EEC), Low Voltage (2014/35/EU), EMC (2014/30/EU),
RoHS (EU2011/65/EU), ErP (2009/125/EU).



In order to reduce environmental damage, at the end of its useful life, this product must not be disposed of along with normal household waste to landfill sites. It must be taken to an approved recycling centre according to the recommendations of the WEEE (Waste Electrical and Electronic Equipment) directive applicable in your country.

SPECIFICATIONS



Operating Voltage Range:	~100V to ~240V 50-60Hz	
Average power consumption:	100Watts (Measured at 1/8th continuous output power)	
Output Power Rating:	60W RMS (2 x30W)	
Loudspeakers:	2 x 8" Custom Designed full range Dual Cone Driver	
Inputs:	CH1 - Combi (Mic/Line)	Balanced XLR Supports 15V Phantom Power
		Unbalanced 6.3mm jack Impedance - 10M Ohm/47pF
	CH2 - Combi (Mic/Line)	Balanced XLR Supports 15V Phantom Power
		Unbalanced 6.3mm jack Impedance - 10M Ohm/47pF
EQ:	Bass:	±12dB at 100Hz, Lo Shelving
	Middle:	±12dB at 600Hz, Peaking
	Treble:	±12dB at 10KHz, Hi Shelving
	Shape:	3 Band Preshape EQ
FX Channel1:	Reverb: Adjustable amount	
	Chorus: Adjustable amount	
FX Channel2:	Reverb: Adjustable amount	
	Chorus: Adjustable amount	
Other:	Anti-Feedback control	12 Position notch filter
	Phase	
D.I. Out:	Balanced XLR with source switch and GND lift	
Aux In:	3.5mm Stereo jack	
Headphones:	3.5mm Stereo jack	
	(Speakers mute when headphones are connected)	
Power:	Universal Mains Power IEC Input	
Pole cup:	For use with a standard 35mm pole stand (not included)	
Size (mm):	347*265*242 (H*W*D)	
Unit Weight (Kg):	10.5	
Packed Weight (Kg):	12	

Male XLR



Mic

6.35mm Mono Jack



Line In, FX Send/Return

6.35mm Stereo Jack



TIP RING SLEEVE
REVERB REMOTE
CHORUS REMOTE
GROUND

Remote

3.5mm Stereo Jack



TIP RING SLEEVE
LEFT RIGHT GROUND

Aux In, Phones

Female XLR



D.I. Out

In the interest of continued development, Laney reserves the right to amend product specification without prior notification.



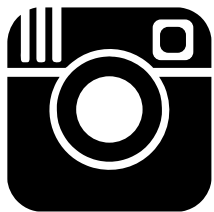
Model number:

Serial number:

Place of purchase:

Date of purchase:

Please complete for future reference.



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Revision 1.00