



USER MANUAL

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DESIGNED & ENGINEERED IN THE UK BY LANEY

IRT-SLS
IRONHEART



Congratulations on choosing the IRT-SLS ultra-compact guitar head.

Designed and engineered in the Black Country, Great Britain and packed full of features, amazing tones and a thoroughly modern look. The IRT-SLS offers 3 channels – Clean, Rhythm and Lead, separate EQ's, and two power modes depending on your requirements. A high-power mode delivering 3 to 300 watts RMS, and a standard power mode providing <1 to 60 Watts RMS.

All the tone and power you could want in a small, compact and portable package making the IRT-SLS the ULTIMATE fly-rig.

Loaded with two high voltage ECC83 tubes the IRT-SLS uses tube technology to generate its characteristic IRONHEART tones, whilst the mono block output configuration delivers all the power you could ever need.

Connecting your cabinet could not be easier – The IRT-SLS features combi twist sockets which can take either a Speakon connector or a regular jack.

Your IRT-SLS also features an internal dummy load which means you can use your IRT-SLS without any cabinet connected at all. Totally silent recording with no loss of tone. Recording directly from the on-board T-USB feature has been enhanced by the inclusion of studio quality cabinet emulation options, giving the IRT-SLS an amazing sound direct into your DAW.

We hope you enjoy your IRT-SLS.

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.

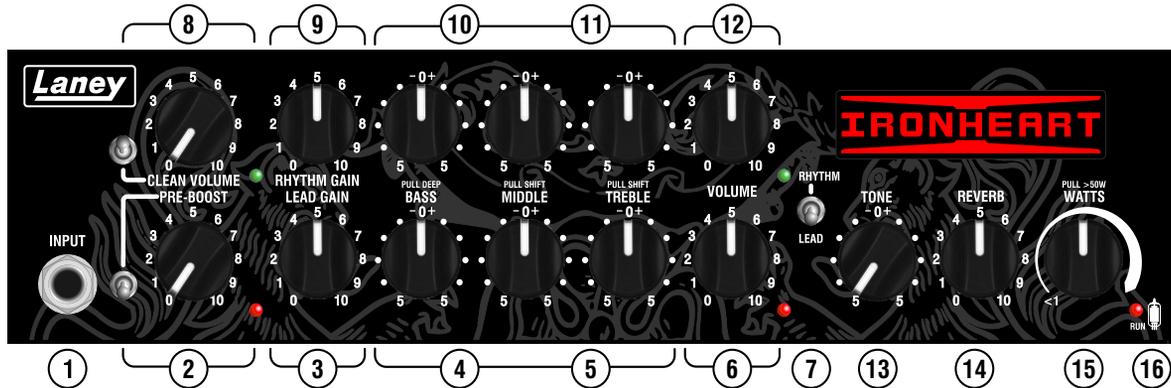
At the same time we believe we have not lost sight of the reason Laney was founded in the first place - a dedication to building great sounding amplification for working musicians.

Warm Regards,

A handwritten signature in black ink, appearing to read 'Lyndon Laney', with a stylized flourish at the end.

Lyndon Laney
Chairman and Founder.

FRONT PANEL CONTROLS



- ① **INPUT** 1/4" mono jack socket for connecting an active or passive guitar. For best performance, use a good quality instrument cable.
- ② **PRE-BOOST SWITCH:** Switches the input boost circuit on or off. The Pre-Boost circuit increases the input signal to the preamp tubes, just like placing a boost pedal in your signal path. This drives the preamp tubes harder, resulting in more distortion. This works on all channels.
PRE-BOOST CONTROL: Controls the level of boost applied to the guitar signal.
PRE-BOOST LED: The led will illuminate when the Pre-Boost control is activated.
- ③ **LEAD GAIN:** Controls the level of preamp distortion on the Lead channel. Turning this control clockwise will add more distortion to your guitar signal, ranging from light overdrive, to full on metal. Use this in conjunction with the Lead Volume Control (6) to achieve the correct volume and distortion level you require. With the Volume control set below 6, you will only get preamp distortion. Turning past 7 will progressively add distortion from the output stage.
- ④ **LEAD EQ CONTROLS:** A traditional set of passive tone controls. Passive controls have the advantage of sounding musical due to their unique interactive nature. This gives the player a more natural set of tools to shape their ideal sound. Set midway at 0 as a good starting point.
- ⑤ **LEAD EQ PULL SWITCHES:** Pulling on each of the EQ control knobs will shift the response of each control as follows:
 - **Bass: Deep** - This extends the low-end frequency response, resulting in a fuller, heavier sound for lower notes.
 - **Mid: Shift** - This lowers the frequency range of the Mid control to give a tighter sound.
 - **Treble: Shift** - This broadens the Treble control frequency response, to give a rounder sound to higher notes, especially when used with thin sounding pickups.

⑥ **LEAD VOLUME:** Controls the Lead channel volume. Experiment with different combinations of the Drive and Volume controls to achieve different sounds. Reducing the Drive while increasing the Volume will result in a warm, open, over-driven sound as the output section is driven harder, while reducing the Volume and increasing the Drive will give a tighter, more modern sound with more distortion. Once set, try using your guitar's volume controls to interactively adjust tone and distortion levels.

⑦ **CHANNEL SWITCH & LEDs:** Switches between the Lead and Clean/Rhythm channels. LEDs indicate currently active channel.

⑧ **CLEAN/RHYTHM SWITCH & LED:** This switch activates the Clean mode on the Rhythm channel. When operated, the Clean Volume control becomes active, while Rhythm Gain (9) and Rhythm Volume (12) are removed from the signal path. When using clean mode, the preamp gain is lowered, resulting in a cleaner tone. LED indicates that Clean mode is active.

CLEAN VOLUME: Use this to control the volume of the amplifier when using Clean mode. The amp can still be driven to overdrive with the control turned to 7 or more and can be driven harder by using the Pre-Boost.

⑨ **RHYTHM GAIN:** As Lead Gain (3).

⑩ **CLEAN/RHYTHM EQ CONTROLS:** As Lead EQ Controls (4).

⑪ **CLEAN/RHYTHM EQ PULL SWITCHES:** As Lead EQ Pull Switches (5).

⑫ **RHYTHM VOLUME:** As Lead Volume (6).

⑬ **TONE:** This Tone control works in a similar fashion to the Tone control you probably have on your guitar except that it uniquely works at the other end of the amplification chain. This has the ability to not only control the overall top end response but also reduce upper harmonics on the output stage and preamplifier overdrive sounds. This will give you bright cutting sounds at high settings and smooth rounded sounds at lower settings. Midway (0) is a good starting point.

⑭ **REVERB:** Controls the level of the built in Laney-designed digital reverb.

TIP Reverb is not applied to signal connected to the Aux Input.

⑮ **WATTS:** Controls the overall output of the amplifier and has two modes of operation.

■ **Pull position - High Power Mode:** A variable output with a maximum of 300W into 4 Ohms. As an indicator, the Tube Status LED (16) turns blue. **Before using this mode please check the power ratings of your chosen cabinets.**

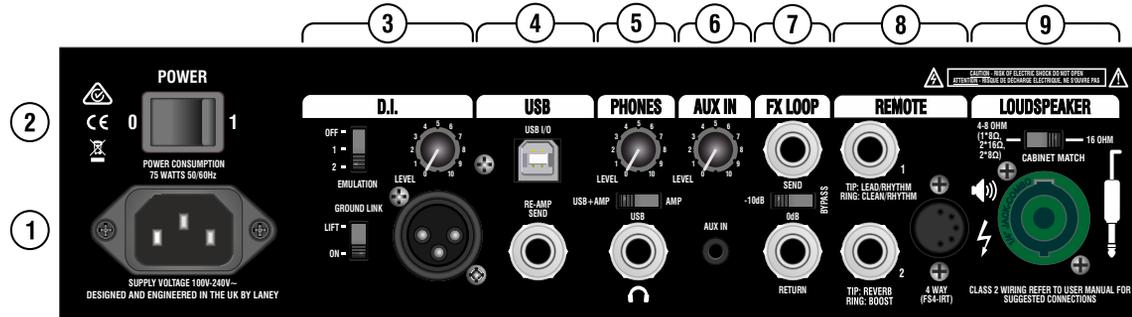
■ **Push position - Normal Power Mode:** A variable output with a maximum of 60W into 4 Ohms, but the character and 'Tube Warmth' of the tone remains.

TIP The Watts control is not applied to Aux Input signals.

⑯ **TUBE STATUS MONITOR:** When you first power up your IRT-SLS, the following will happen:

- 1: The led will flash at a steady rate - the tubes are warming up. This could take up to 30 seconds.
- 2: The led is continuously on - the amplifier is now ready for use.

REAR PANEL CONTROLS



Please note additional safety instructions and serial number on bottom panel of unit.

- ① **UNIVERSAL POWER INLET:** This socket accepts a standard IEC grounded connector supplied with the product. The unit must be earthed under all circumstances! Input voltages from ~100V to ~240V 50-60Hz can be used around the world without need for fuse or voltage changes to the product. Always disconnect the power connector when the amplifier is not in use.
Tip: Ensure the Watts control (15) is in Push position before powering Up.
- ② **POWER SWITCH:** This fully disconnects the mains power to the amplifier. At switching on, the Valve Status LED will begin to flash. The amount of time for the amplifier to be ready for use depends on ambient and tube temperatures.
- ③ **D.I.:** This connector provides a balanced line level feed, primarily used for connecting to a PA sound desk. Level is adjusted with its dedicated control and any problems with earth loops can be dealt with by utilisation of the Ground Lift control. The D.I signal is routed via an Emulation circuit and a switch to allow Emulation bypass or a choice of two emulation types.
 - EMULATION 1 - a bright guitar cabinet.
 - EMULATION 2 - a dark guitar cabinet.
- ④ **USB:** Record replay connector, (Dry on left channel, processed on right channel). USB2.0 is compatible with Windows XP ® operating system, Windows 7 ® operating system & Windows 8 ® operating system. Also compatible with Mac ® & iPad ® I-3 via camera USB adaptor, iPad ® 4 & iPad Mini ® via Lightning-USB camera adaptor cable.
 - Re-amp output jack allows Dry return signal from USB to be connected via jack cable to the Amp input.

Additional information on pages 13-16.

⑤ **PHONES:** A standard 6.35mm stereo jack socket for use with headphones or to provide a stereo feed to a PA system. A level control is provided for comfortable listening/ level balancing and the signal source is set via the selector switch. Three options are available:

■ **USB+AMP** - a mix of the USB Left and Right and signals running through the IRT-SLS.

■ **USB** - a mix of the USB Left and Right and signals only.

■ **AMP** - signal running through the amp only.

Ensure the level is turned down before connecting headphones to avoid unexpected excessive volume levels.

When phones are connected, the amplifier output is disabled - this can take a couple of seconds.

⑥ **AUXILIARY INPUT:** A standard 3.5mm jack socket for the connection of backing tracks etc. and level balanced with the accompanying Level control. The Aux signal is inserted post Reverb and is present at the D.I and Headphone sockets, but not the Insert Send.

Ensure the level is turned down before connecting a signal to avoid unexpected excessive volume levels and potential speaker damage.

⑦ **FX LOOP:** This is an insert type loop so all of the signal is passed to the external processor. The mixing of the dry and effect signal must be controlled in your external processor. A switch is provided to allow two nominal levels of loop signal and a bypass option.

⑧ **REMOTE:** A 5 pin DIN socket to connect the included FS4-IRT. In addition to this, there are two stereo jack sockets (providing the same control functions as the DIN) and allowing for user flexibility. A midi switcher could utilise these connections for example.



- 1 (DIN pin 1 - Foot switch jack 2 - Tip - **REVERB**)
- 4 (DIN pin 4 - Foot switch jack 2 - Ring - **BOOST**)
- 2 (DIN pin 3 - Foot switch jack 1 - Tip - **LEAD/RHYTHM**)
- 5 (DIN pin 5 - Foot switch jack 1 - Ring - **CLEAN/RHYTHM**)
- 3



⑨ **SPEAKER CONNECTOR:** Use a high quality Speakon connector (or equivalent) to attach your favourite cabinet. If you don't have a male Speakon plug, a standard mono 1/4" jack connector can be used.

IMPEDANCE SELECTOR SWITCH: Used to select the optimum load impedance matching. It should be set to match the total load of the connected loud speakers. Incorrect setting will not cause damage or reduced power, but your potential sound quality may be compromised.

Pay attention to the impedance if multiple cabs are used.

4-8Ω setting: 1x4 Ω, 2x8Ω cab or 2x16Ω cabs (connected in parallel).

16Ω setting: 1x16Ω cab.

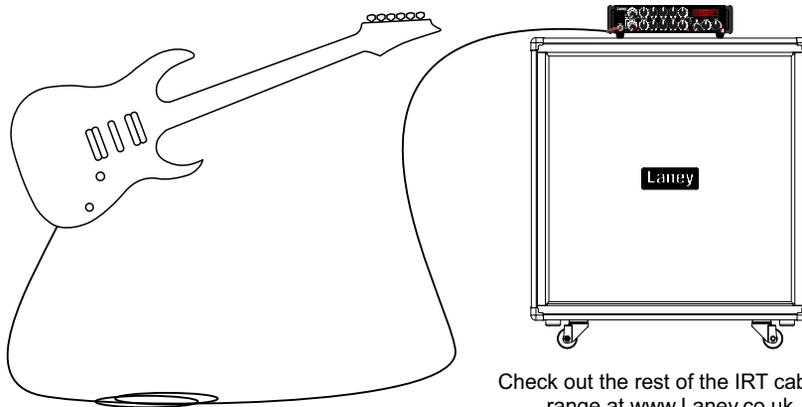
This amplifier is safe to operate without speakers connected. This enables use with only headphones or just as a pre-amplifier within your DAW system.

Before connecting a cabinet, check your settings are correct:

IMPEDANCE SELECTOR SWITCH: Used to select the optimum load impedance matching. It should be set to match the total speaker load connected to the output socket. Incorrect setting will not cause damage, but output power and sound quality may be compromised.

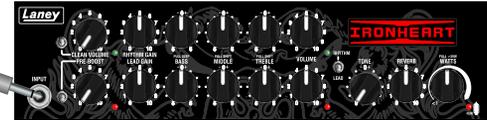
SPEAKER CONNECTORS: The minimum recommended load is 4 Ohms. Speakon connectors are advised for connecting your cabinets but 1/4" speaker jacks and cable can be used. **Do not use microphone or instrument cables.**

Always switch off and disconnect the power cord when not in use.



Check out the rest of the IRT cabinet range at www.Laney.co.uk

Guitar



Example 1

Example 2

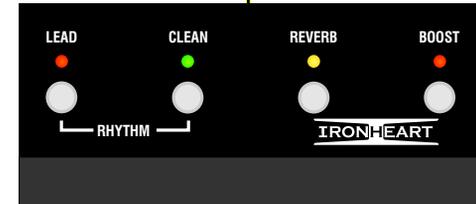
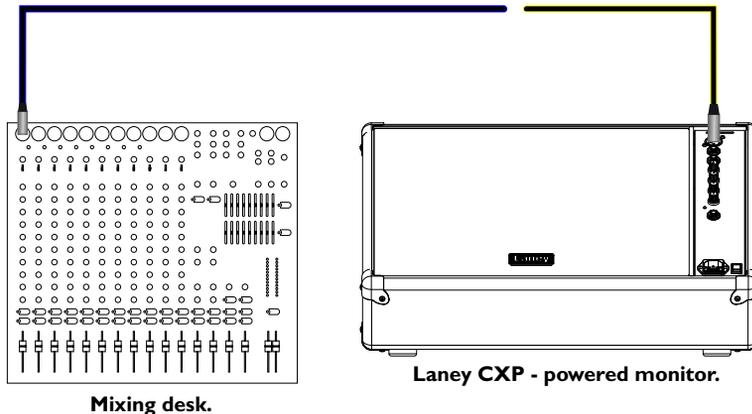


The IRT-SLS can be connected to your chosen cabinet via Speakon to jack, or jack to jack connectors in either a single or multiple cabinet configuration (as shown above).



In this example, the D.I. feed is connected to a Mixing console or stage monitor.

In the event of hum caused by a ground loop lift the ground (audio ground) with the ground Lift switch.



Remote: A 5 pin DIN connector is provided for connecting a Laney FS4-IRT foot-switch.

The functions controlled are:

LEAD, CLEAN, REVERB and BOOST.

The adjacent LED and associated front panel LED will illuminate when the function is active.

Please note: External switching is via the 5 pin DIN OR the jack connections - not both at the same time.



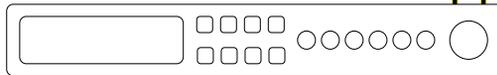
PHONES and AUX:
 Ensure the level controls
 are turned down before
 using to avoid unexpected
 or potentially damaging
 volume levels!



Phones

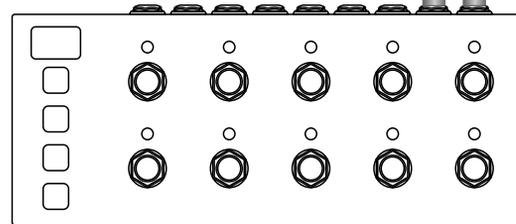


Mobile phone
 Mp3 player



Outboard FX unit

REMOTE: The secondary jack remote
 connections could be used to
 connect your IRT-SLS to a suitable
 TRS switchable pedal board.



Pedal Board

USB Interface options:

- USB2.0 Bidirectional to PC/Mac/iPad etc.
- Record output of amplifier with or without a speaker load connected.
- Simultaneously record dry guitar signal for later processing or Re-Amping.
- Re-Amp guitar track changing the settings as required.
- Re-Amp guitar track with external stomp boxes as required.
- Add tube amplifier and/or power amplifier warmth to digital guitar tracks with or without speaker load.

Record out via USB

To run into iPad or iPad mini connect via a Camera USB adaptor, PC/MAC connects via standard A-B USB cable, for use with the Garage Band ®, Audacity ®, MixPad Audio Mixer ®, Pro Tools and similar. It should be noted that the audio output of an iPad or iPad mini is disengaged and returned via the USB. This can be picked up via a rear panel monitor switch on the amplifier headphones in stereo, or if required, routed into a PA system/power cabinets.

Re-Amp Facility

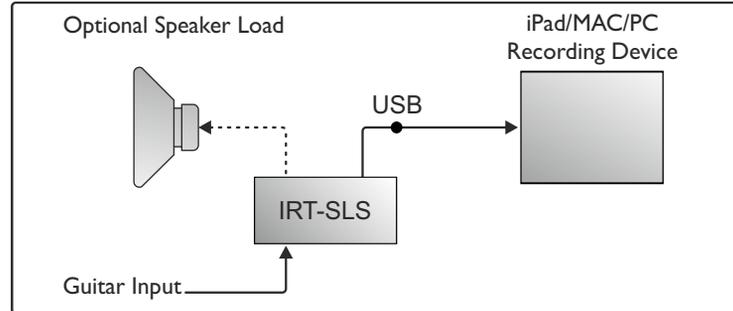
During recording to your chosen DAW, the left channel carries an unprocessed guitar signal, with the right carrying the amplifier processed signal. If you need to separate the clean and processed signals, simply copy the track in stereo with one track panned left and the other track panned right, then both raw and processed signals are available independently.

This allows for the re-amplifying of a sound that may have been over processed initially. To re-amp via Garage Band on the iPad, solo the original channel and record a new one with the 'link cable' in place. More information is available on the following pages.

TIP

The processed signal can be emulated or non-emulated dependant on the cabinet emulation switch selection.

IRT-SLS USB Recording:



Connect your USB recording device (PC/MAC or iPad) via an appropriate USB cable.

Your amplifier will send two audio tracks to your recording device:

(1) On the Left channel the direct unaffected guitar signal.

TIP This can be used at a later date for “Re-Amping”.

(2) On the Right channel the amplified fully processed signal.

These can be split into separate tracks in various ways dependent on your software. The signal level of the left channel, sent to the recording device, can be adjusted with the rear panel level control.

The signal level of the right channel is controlled by the IRT-SLS volume controls.

The processed signal sent to the right channel can be emulated or left untreated via the emulation switch. (Note this switch also affects the signal being sent via the XLR D.I out).

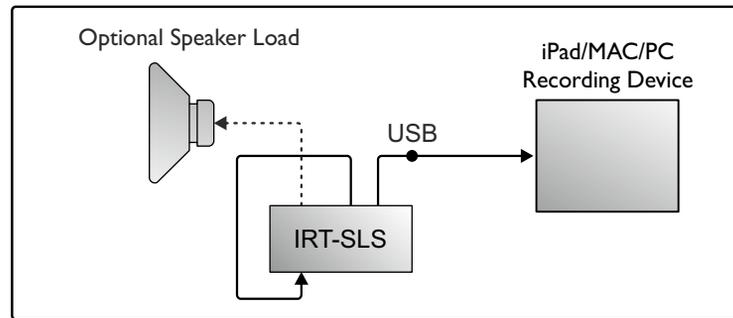
TIP Alternatively record left and right as two separate tracks for maximum flexibility.

All this can be done without a speaker load connected.

However adding a speaker can in some cases give extra mechanical dynamics to the recorded sound.

IRT-SLS USB “Re-Amping”:

Connect USB cable between the amplifier and recording device, then connect a good quality screened guitar cable from the rear panel “Re-Amp” output jack and loop round the front panel to guitar input jack.



TIP Route lead in an anti-clockwise direction around the amplifier to avoid hum pick-up from the power transformer.

Output the original unprocessed guitar track by monitoring it on your record device.

TIP For lowest noise performance, adjust the Dry signal send control for the maximum undistorted record level on your DAW.

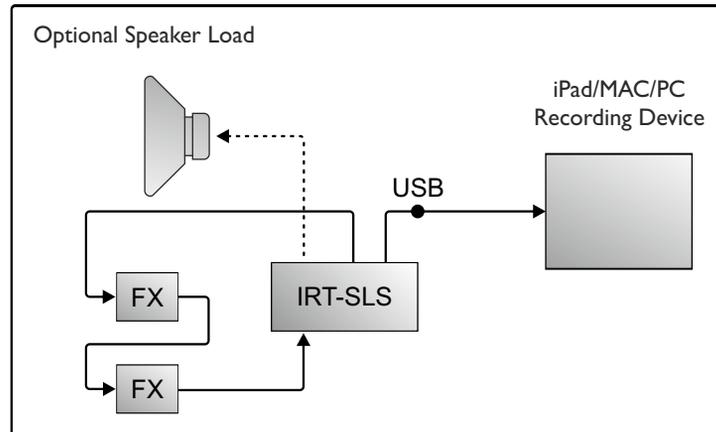
Start your record device. The monitored track will be sent to the amplifier input and the device will record the now processed signal from the amplifier output. The controls on the amplifier can be adjusted to obtain the new sound you require.

You will now have the original track and the new re-processed version.

TIP Make sure your monitor track output is being sent to the left channel output or both.

IRT-SLS USB “Re-Amping” with added Stomp box Effects:

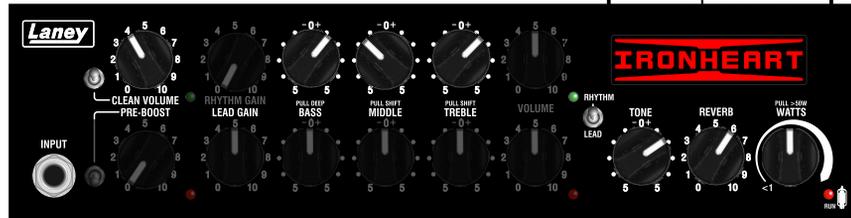
Proceed as normal for “Re-Amping” except in this case insert your FX box/s into the Guitar lead from the Re-Amp out jack to the Guitar amplifier input. The recorded Left channel will contain the original unprocessed signal now with your effects only added. The right channel will contain the same sound but also processed via the Studio amplifier.



QUICK START SETTINGS

Set to preference.

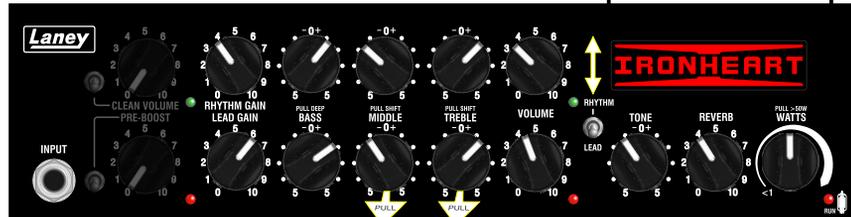
CLEAN



RHYTHM

ROCK

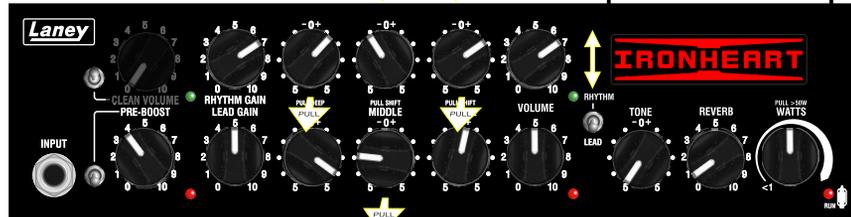
LEAD



RHYTHM

METAL

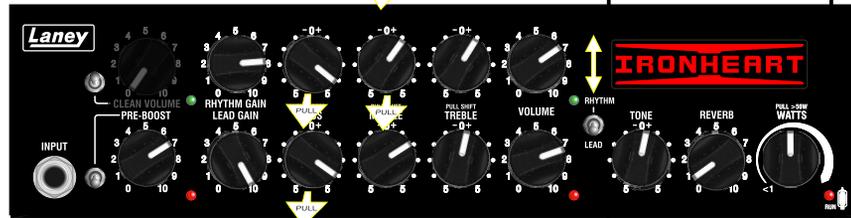
LEAD



RHYTHM

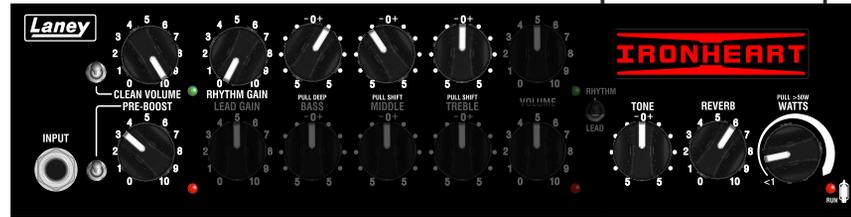
DETUNED METAL

LEAD

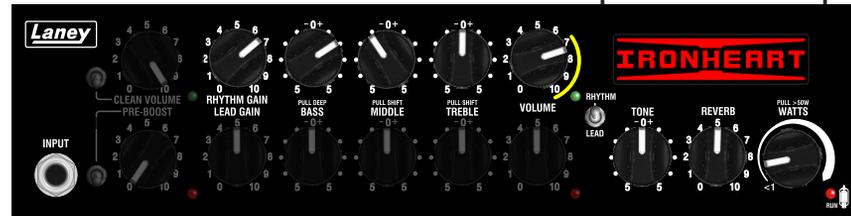


Set to preference.

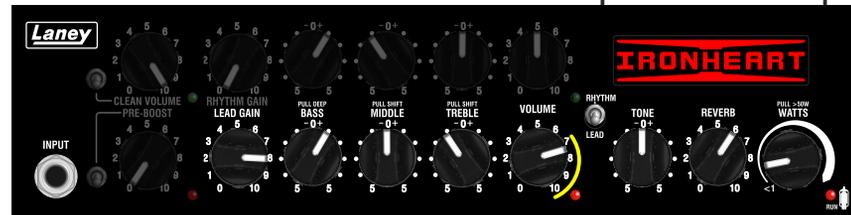
CLEAN



RHYTHM



LEAD



Use the Watts to control the overall volume of the IRT-SLS.

In the Rhythm and Lead examples, the output section is pushed into output distortion when the volume controls are set at 7 or above.

The IRT-SLS uses specially selected and tested high voltage pre-amp tubes which should give you years of trouble free service. However like all tube amps; it is important to treat it with a certain amount of care. Use the following steps as a guide for how to take care of your amplifier:

- Take care when moving the amplifier. Tubes are fragile glass components, they can easily be damaged if thrown in and out of a van.
- Allow the amplifier to warm up to room temperature before switching it on: the sudden thermal shock can crack a cold glass tube enclosure, plus any moisture is bad news around high voltage electronics.
- After playing, allow the amplifier to cool down before moving. Hot tubes are more fragile than cool ones.

A tubes life expectancy is based upon a number of factors which include operating temperature, how hard and how often it is played, vibration due to travel, etc. Tubes should be changed in your amplifier if you notice any deterioration in your amplifiers sound or performance. Otherwise, they need not be changed at any regular interval.

Problematic tubes can cause crackling noises, hiss, excessive distortion, microphony and low output power.

Important: The user should not attempt to service this product!

Method for replacing tube V1 and V2 (by Qualified Service Engineers only).

Firstly switch off and unplug the amplifier from the mains supply. Remove the top cover. The tubes are protected with screen cans; to remove, push down and twist the can anti clockwise and then pull up. The tube can now be gently pulled out. Take care when inserting the new tube to make sure all pins are correctly aligned. Replace the top cover before connecting to the mains supply.

Important: ONLY fit the recommended tube types:

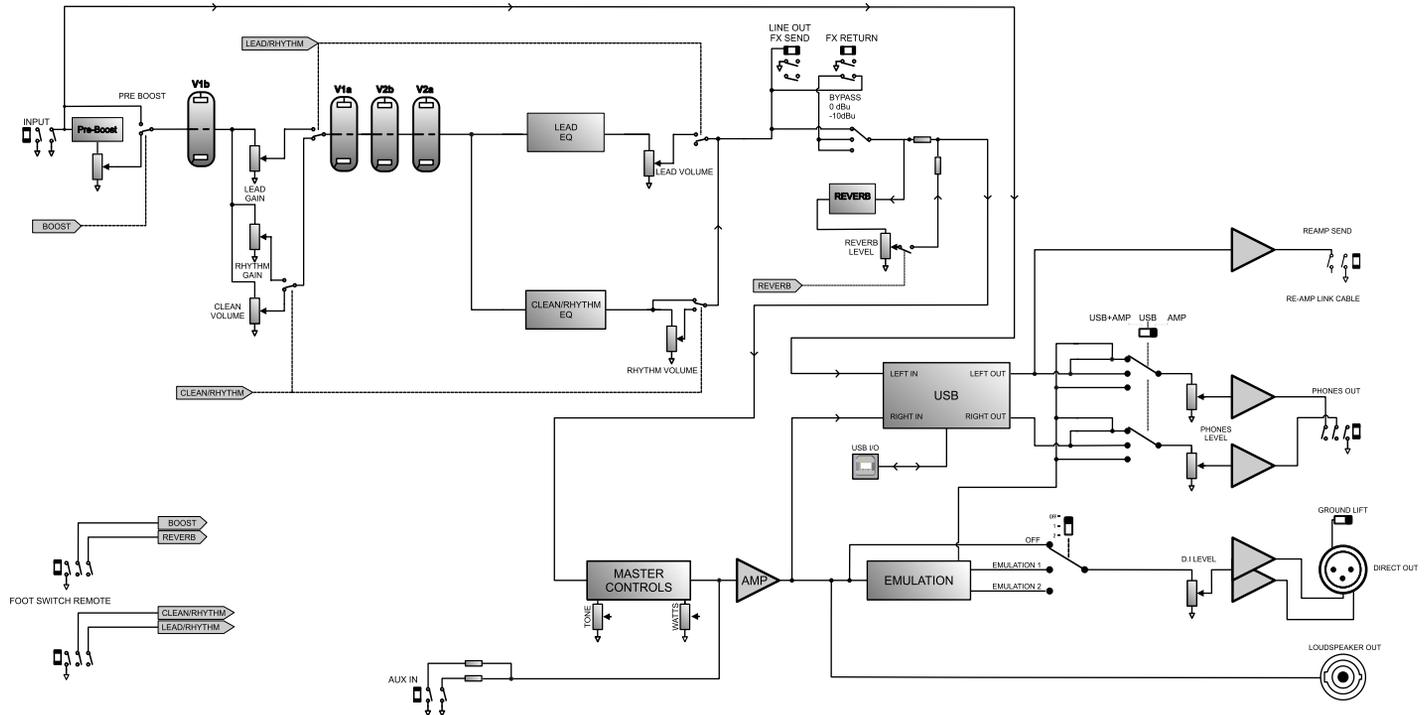
V1: ECC83 - part number - 005570

V2: ECC83 - part number - 005550

Failure to do so could result in malfunction/mis-operation of your IRT-SLS.

DO NOT operate with the top cover removed.

BLOCK DIAGRAM



Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

Mac, Mac OS & iPad are trademarks of Apple Inc., registered in the U.S. and other countries.

Audacity is a trademark of Dominic Mazzoni.

MixPad Audio Mixer is a trademark of NCH Software, Inc.

Pro Tools is a trademark registered in the United States by Avid Technology, Inc.

Speakon is a trademark of Neutrik®AG.

(USB2.0 is compatible with Windows 10® operating system, Windows 8® operating system & Windows 7® operating system. Also compatible with Mac® & iPad® 1-3 via camera USB adaptor, iPad® & iPad Mini® via Lightning-USB camera adaptor cable.)

Speakon is a trademark of Neutrik®.

IRONHEART

IRT-SLS

Operating Voltage Range:	~100V to ~240V 50-60Hz.
Average power consumption:	75W(Measured at 1/8th continuous output power)
Power Output (RMS):	High power mode: 300W into 4Ω / 150W into 8Ω/ 75W into 16Ω
	Standard power mode: 60W into 4Ω / 30W into 8Ω/ 15W into 16Ω
Load Impedance:	Setting 1: 1x8Ω,2x16Ω, 2x8Ω
	Setting 2: 1x16Ω
Input Impedance:	1MΩ & 47pF
FX Loop Sensitivity:	0dBu/-10dBu (Nominal dependant on control settings)
USB:	44.1kHz Standard Slave CODEC (PC/MAC/iPad compatible)
Unit Dimensions:	H70mm, W318mm, D235mm
Carton Dimensions:	H150mm, W442mm, D299mm
Weight:	3.5Kg (Unit) 6Kg (Packed)
Construction/ features:	Sturdy steel chassis
	Ergonomic and stylish handle design

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



USER MANUAL

SAFETY INFORMATION

WWW.LANEY.CO.UK

DESIGNED & ENGINEERED IN THE UK BY LANEY

GENERAL INSTRUCTIONS

In order to take full advantage of your new product and enjoy long and trouble-free performance, please read this owner's manual carefully, and keep it in a safe place for future reference.

- 1) 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 re-pack 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 your dealer for rectification securely packed.
- 2) 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, tape decks, cd players, mixers, effects processors etc, BEFORE turning on your amplifier. Many products have large transient surges at turn on and off which can cause damage to your speakers. By turning on your bass 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 bass amplifier and then turn off its power before turning off other equipment.
- 3) Cables:** Never use shielded or microphone cable for any speaker connections as this will not be substantial enough to handle the amplifier load and could cause damage to your complete system.
- 4) Servicing:** The user should not attempt to service these products. Refer all servicing to qualified service personnel.

	<p>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.</p> <p>Ce symbole est utilisé pur indiquer a l'utilisateur de ce produit de tension non-isolee dangereuse pouvant etre d'intensite suffisante pour constituer un risque de choc électrique.</p> <p>Este simbolo tiene el proposito 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 corrienteazo.</p> <p>Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Starke sind, um einen elektrischen Schlag verursachen zu können.</p>
	<p>Intended to alert the user of the presence of important operating and maintenance (Servicing) instructions in the literature accompanying the product.</p> <p>Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Starke sind, um einen elektrischen Schlag verursachen zu können.</p> <p>Este simbolo tiene el proposito de la alertar al usuario de la presencia de instrucciones importantes sobre la operacion y mantenimiento en la literatura que viene conel producto.</p> <p>Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.</p>
<p>CAUTION:</p>	<p>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.</p>
<p>ATTENTION:</p>	<p>Risques de choc électrique - NE PAS OUVRIIR Afin de reduire le risque de choc électrique, ne pas enlever le couvercle. Il ne se trouve a l'interieur aucune piece pouvant etre reeparé par l'utilisateur. Confier l'entretien a un personnel qualifié.</p>
<p>PRECAUCION:</p>	<p>Riesgo de corrienteazo - no abra Para disminuir el riesgo de corrienteazo, no abra la cubierta. No hay piezas adentro que el pueda reparar. Deje todo mantenimiento a los tecnicos calificados.</p>
<p>VORSICHT:</p>	<p>Risiko - Elektrischer Schlag! Nicht öffnen! Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vom Anwender repariert werden Können. Reparaturen nur von qualifiziertem Fachpersonal durchführen lassen.</p>
<p>WARNING:</p>	<p>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.</p>
<p>ADVERTISSEMENT:</p>	<p>Afin de prevenir les risques de decharge électrique ou de feu, n'exposez pas cet appareil a la pluie ou a l'humidité. Avant d'utiliser cet appareil, lisez les advertissements supplémentaires situés dans le guide.</p>
<p>ADVERTENCIA:</p>	<p>Para evitar corrienteazos o peligro de incendio, no deja expuesto a la lluvia o humedad este aparato Antes de usar este aparato, lea mas advertencias en la guía de operacion.</p>
<p>ACHTUNG:</p>	<p>Um einen elektrischen Schalg oder Feuergefahr zu vermeiden, sollte dieses Gerät nicht dem Regen oder Feuchtigkeit ausgesetzt werden. Vor Inbetriebnahme unbedingt die Bedienungsanleitung lesen.</p>

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 (2011/65/EU), RED (2014/30/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.

SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, Laney Electronics Ltd. declares that the radio equipment is in compliance with Directives 2014/53/EU, 2011/65/EU, 2009/125/EU

Full text of the EU declaration of conformity is available at the following internet address:

support.laney.co.uk/approvals



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INCORPORATED RADIO EQUIPMENT DEVICE TECHNICAL SPECIFICATION:

Frequency Range:	2402-2480MHz
Transmit Power:	+8dBm (6.3mW)
Receiver Sensitivity:	-91dBm
Operating Protocol:	Bluetooth Class 2

IMPORTANT SAFETY INSTRUCTIONS

WARNING: When using electrical products, basic cautions should always be followed, including the following:

1. Read these instructions.
2. Keep these instructions safe.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. An apparatus with Class I construction shall be connected to a mains socket outlet with a protective connection. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
11. Only use attachments/accessories provided by the manufacturer.
12. 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.
13. The mains plug or appliance coupler is used as the disconnect device and shall remain readily operable. The user should allow easy access to any mains plug, mains coupler and mains switch used in conjunction with this unit making it readily operable. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when power-supply cord or plug is damaged, liquid has been spilled on or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Never break off the ground pin. Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
16. If this product is to be mounted in an equipment rack, rear support should be provided.
17. Note for UK only: If the colours of the wires in the mains lead of this unit do not correspond with the terminals in your plug, proceed as follows:
 - a) The wire that is coloured green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, coloured green or coloured green and yellow.
 - b) The wire that is coloured blue must be connected to the terminal that is marked with the letter N or the colour black.
 - c) The wire that is coloured brown must be connected to the terminal that is marked with the letter L or the colour red.
18. 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.
19. 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.
20. Symbols & nomenclature used on the product and in the product manuals, intended to alert the operator to areas where extra caution may be necessary, are as follows:

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



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

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.

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.

If your appliance features a tilting mechanism or a kickback style cabinet, please use this design feature with caution. Due to the ease with which the amplifier can be moved between straight and tilted back positions, only use the amplifier on a level, stable surface. DO NOT operate the amplifier on a desk, table, shelf or otherwise unsuitable non-stable platform.



EN

CONSIGNES DE SÉCURITÉ IMPORTANTES

FR

ATTENTION: L'utilisation de tout appareil électrique doit être soumise aux précautions d'usage incluant:

1. Lisez ces instructions.
2. Gardez ce manuel pour de futures références.
3. Prêtez attention aux messages de précautions de ce manuel.
4. Suivez ces instructions.
5. N'utilisez pas cet appareil à proximité de plans d'eau.
6. N'utilisez qu'un tissu sec pour le nettoyage de votre appareil.
7. N'obstruez pas les systèmes de refroidissement de votre appareil et installez votre appareil en fonction des instructions de ce manuel.
8. Ne positionnez pas votre appareil à proximité de toute source de chaleur.
9. Un appareil avec la construction de la classe I sera relié à une prise munie d'une liaison à la terre. Branchez toujours votre appareil sur une alimentation munie de prise de terre utilisant le cordon d'alimentation fourni.
10. Protégez les connecteurs de votre appareil et positionnez les câblages pour éviter toutes déconnexions accidentelles.
11. N'utilisez que des fixations approuvées par le fabricant.
12. Lors de l'utilisation sur pied ou perche de support, assurez dans le cas de déplacement de l'ensemble enceinte/support de prévenir tout basculement intempestif de celui-ci.
13. La fiche secteur est utilisée pour couper l'alimentation de l'appareil et doit rester facilement accessible. Débranchez cet appareil pendant les orages ou s'il est inutilisé pendant de longues périodes.
14. Seul un technicien agréé par le fabricant est à même de réparer/contrôler votre appareil. Celui-ci doit être contrôlé s'il a subi des dommages de manipulation, d'utilisation ou de stockage (humidité, ...).
15. Ne déconnectez jamais la prise de terre de votre appareil.
16. Si votre appareil est destiné à être monté en rack, des supports arrière doivent être utilisés.
17. Note pour le Royaume-Uni : Si les couleurs des fils du câble d'alimentation ne correspondent pas aux fiches de la prise secteur, procédez comme suit:
 - a) Le fil vert et jaune doit être branché sur la borne repérée par la lettre E, ou le symbole de terre, ou par les couleurs vert ou verte et jaune.
 - b) Le fil bleu doit être branché sur la borne repérée par la lettre N, ou par la couleur noire.
 - c) Le fil marron doit être branché sur la borne repérée par la lettre L ou par la couleur rouge.
18. Cet équipement électrique ne doit en aucun cas être en contact avec un quelconque liquide et aucun objet contenant un liquide, tels qu'un vase ou autre récipient.
19. Une exposition à de hauts niveaux sonores peut entraîner des dommages irréversibles de l'audition. La sensibilité au bruit varie considérablement d'un individu à l'autre, mais la majorité de la population ressentira une perte d'audition après une exposition à une forte puissance sonore pendant une durée prolongée. L'organisme de la santé américaine (OSHA) a produit le guide ci-dessous en rapport à l'exposition autorisée aux niveaux de bruit :

Durée par Jour (heures)	Niveau sonore moyen (dBA)
8	90
6	92
4	95
3	97
2	100
1	102
1	105
1/2	110
1/4	115
20. Symboles utilisés sur les produits et dans les manuels des produits, destinés à alerter l'opérateur des zones ou des précautions supplémentaires pouvant être nécessaires :



Ce symbole est utilisé pour prévenir l'utilisateur de la présence d'une tension non isolée dangereuse à l'intérieur du boîtier de l'appareil, et pouvant être suffisante pour constituer un risque de choc électrique.

Ce symbole est utilisé pour prévenir l'utilisateur de la présence d'instructions d'utilisation et de maintenance dans le mode d'emploi accompagnant l'appareil.

Risque de choc électrique – NE PAS OUVRIER. Afin de réduire le risque de choc électrique, ne pas ouvrir le capot. Il n'y a aucune pièce à l'intérieur pouvant être réparée par l'utilisateur. Veuillez confier la maintenance à un personnel qualifié.

Afin de prévenir tout risque de choc électrique et d'incendie, n'exposez pas cet appareil à la pluie ou à l'humidité. Avant d'utiliser cet appareil, lisez attentivement les instructions d'utilisation de ce mode d'emploi.

Si votre appareil est équipé d'un mécanisme de basculement ou si son boîtier est conçu comme retour, veuillez utiliser cette caractéristique avec prudence. En raison de la facilité avec laquelle l'amplificateur peut être basculé entre les positions droite et inclinée, utilisez uniquement l'amplificateur sur une surface plane et stable. NE PAS faire fonctionner l'amplificateur sur un bureau, une table, une étagère ou autre plate-forme inappropriée.

INSTRUCCIONES DE SEGURIDAD IMPORTANTES

CUIDADO: Cuando use productos electrónicos, debe tomar precauciones básicas, incluyendo las siguientes:

1. Lea estas instrucciones.
2. Guarde estas instrucciones.
3. Haga caso de todos los consejos.
4. Siga todas las instrucciones.
5. No usar este aparato cerca del agua.
6. Limpiar solamente con trapos secos.
7. No bloquear ninguna de las salidas de ventilación. Instalar de acuerdo a las instrucciones del fabricante.
8. No instalar cerca de ninguna fuente de calor como radiadores, estufas, hornos u otros aparatos (incluyendo amplificadores) que produzcan calor.
9. Un aparato con la construcción de clase I deberá conectarse a una toma de corriente que disponga una conexión con protección. No retire la patilla protectora del enchufe polarizado o con conexión a tierra. Un enchufe polarizado tiene dos clavijas, una más ancha que la otra. Un enchufe con toma de tierra tiene dos clavijas y un tercer diente de tierra. La clavija ancha (la tercera) se proporciona para su seguridad. Si el enchufe proporcionado no encaja en su toma de red, consulte a un electricista para que se reemplace por la obsoleta.
10. Proteja el cable de alimentación para que no sea pisado o pinchado, particularmente en los enchufes, hábitculos y el punto de salida del aparato.
11. Usar solamente componentes y accesorios proporcionados por el fabricante.
12. Usar solamente un carro, pie, trípode, o soporte especificado por el fabricante, o vendido junto al aparato. Cuando se use un carro, tenga cuidado al mover el conjunto carro/aparato para evitar que se dañe en un vuelco.
13. El cable de alimentación o conector del aparato se usa como dispositivo de desconexión y debe permanecer accesible. El usuario debe permitir un acceso fácil a cualquier entrada principal, interruptor haciéndolo así más operativo. Desenchufe este aparato durante tormentas eléctricas o cuando no se use en largos períodos de tiempo.
14. Para cualquier reparación, acuda a personal de servicio cualificado. Se requieren reparaciones cuando el aparato o todo dañado de alguna manera, como cuando el cable de alimentación o el enchufe se han dañados, algún líquido ha sido derramado o algún objeto ha caído dentro del aparato, el aparato ha sido expuesto a la lluvia o la humedad, no funciona de manera normal, o ha sufrido una caída.
15. Nunca retire la patilla de Tierra. Conecte el aparato sólo a una fuente de alimentación del tipo marcado al lado del cable de alimentación.
16. Si este producto va a ser instalado en una unidad de rack, use algún tipo de apoyo trasero.
17. Nota para el Reino Unido solamente: Si los colores de los cables en el enchufe principal de esta unidad no corresponden con los terminales en su enchufe, proceda de la siguiente manera:
 - a) El cable de color verde y azul debe ser conectado al terminal que está marcado con la letra E, el símbolo de Tierra (earth), coloreado en verde o en verde y amarillo.
 - b) El cable coloreado en azul debe ser conectado al terminal que está marcado con la letra N o el color negro.
 - c) El cable coloreado en marrón debe ser conectado al terminal que está marcado con la letra L o el color rojo.
18. Este aparato eléctrico no debe ser sometido a ningún tipo de golpe o salpicadura y se debe tener cuidado para no poner objetos que contengan líquidos, como vasos, sobre el aparato.
19. La exposición a altos niveles de ruido puede causar una pérdida permanente en la audición. La susceptibilidad a la pérdida de audición provocada por el ruido varía según la persona, pero casi todo el mundo perderá algo de audición si se expone a un nivel de ruido excesivamente intenso durante un tiempo determinado. El Departamento para la Salud y para la Seguridad del Gobierno de los Estados Unidos (OSHA) ha especificado las siguientes exposiciones al ruido permisibles:

Duración por Día en Horas	Nivel de Sonido S&A, Respuesta Leve
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 inferior	115
20. Símbolos y nomenclatura utilizada en el producto y en los manuales de producto, destinado a alertar al usuario de las áreas donde la precaución adicional pueden ser necesarias, son las siguientes:



La intención de alertar al usuario de la presencia de "tensión peligrosa" alto dentro del recinto los productos puede ser suficiente para constituir un riesgo de descarga eléctrica para las personas.

La intención de alertar al usuario de la presencia de importantes de operación y mantenimiento (servicio) en la literatura que acompaña al producto.

Riesgo de choque eléctrico - NO ABRIR. Para reducir el riesgo de descarga eléctrica, no retire la cubierta. No hay piezas que el usuario pueda reparar. Solicite la revisión al personal cualificado.

Para evitar descargas eléctricas o incendios, no exponga este aparato a la lluvia ni a la humedad. Antes de usar este aparato, por favor lea las instrucciones de funcionamiento.

Si el aparato cuenta con un mecanismo de inclinación o un gabinete estilo de contragolpe, por favor use esta característica con precaución. Debido a la facilidad con que puede ser que el amplificador se mueva entre las posiciones recta e inclinada, utilice sólo el amplificador sobre una superficie nivelada y estable. NO haga funcionar el amplificador en un escritorio, mesa, estantería o plataforma no estable o no apta.

ES

WICHTIGE SICHERHEITSHINWEISE

ACHTUNG: Beim Einsatz von Elektrogeräten müssen u.a. grundlegende Vorsichtsmaßnahmen befolgt werden:

1. Lesen Sie sich diese Anweisungen durch.
2. Bewahren Sie diese Anweisungen auf.
3. Beachten Sie alle Warnungen.
4. Befolgen Sie alle Anweisungen.
5. Setzen Sie dieses Gerät nicht in der Nähe von Wasser ein.
6. Reinigen Sie es nur mit einem trockenen Tuch.
7. Blockieren Sie keine der Lüftungsoffnungen. Führen Sie die Installation gemäß den Anweisungen des Herstellers durch.
8. Breiten Sie das Gerät nicht neben Wärmequellen wie Heizungen, Heizgeräten, Öfen oder anderen Geräten (auch Verstärkern), die Wärme erzeugen.
9. Verwenden Sie nur Kaltgeräte-Netzabel aus dem Fachhandel.
10. Schützen Sie das Netzabel, sodass niemand darauf tritt oder es geknickt wird, insbesondere an Steckern oder Buchsen am Gerät.
11. Verwenden Sie nur die vom Hersteller erhältlichen Zubehörgeräte oder Zubehörteile.
12. Verwenden Sie nur einen Wagen, Stativ, Dreifuß, Träger oder Tisch, der den Angaben des Herstellers entspricht oder zusammen mit dem Gerät verkauft wurde. Wird ein Wagen verwendet, bewegen Sie den Wagen mit dem darauf befindlichen Gerät besonders vorsichtig, damit es nicht umkippt und möglicherweise jemand verletzt wird.
13. Der Netzstecker bzw. Gerätestecker wird zum Trennen vom Stromnetz verwendet und muß immer leicht zugänglich sein. Der Benutzer sollte auf einfachen Zugang zu allen Netzsteckern, Gerätesteckern und Netz-Schaltern achten. Ziehen Sie den Netzstecker bei Gewitter heraus oder wenn das Gerät längere Zeit nicht benutzt wird.
14. Lassen Sie sämtliche Wartungsarbeiten von qualifizierten Kundendiensttechnikern durchführen. Eine Wartung ist erforderlich, wenn das Gerät in irgendeiner Art beschädigt wurde, etwa wenn das Netzabel oder der Netzstecker beschädigt wurden, Flüssigkeit oder Gegenstände in das Gerät gelangt sind, das Gerät Regen oder Feuchtigkeit ausgesetzt wurde, nicht normal arbeitet oder heruntergefallen ist.
15. Schließen Sie das Gerät nur an eine Stromquelle an, die am Gerät neben dem Netzabel angegeben ist.
16. Wenn dieses Produkt in ein Geräte-Rack eingebaut werden soll, muss eine Versorgung über die Rückseite eingerichtet werden.
18. Dieses Gerät darf nicht ungezügelt Wassertröpfchen und Wasserspritzern ausgesetzt werden und es muss darauf geachtet werden, dass keine mit Flüssigkeiten gefüllte Gegenstände, wie z. B. Blumenvasen, auf dem Gerät abgestellt werden.
19. Belastung durch extrem hohe Lärmpegel kann zu dauerhaftem Gehörverlust führen. Die Anfälligkeit für durch Lärm bedingten Gehörverlust ist von Mensch zu Mensch verschieden, das Gehör wird jedoch bei jedem in gewissem Maße geschädigt, der über einen bestimmten Zeitraum ausreichend starkem Lärm ausgesetzt ist. Die US-Arbeitschutzbehörde (Occupational and Health Administration, OSHA) hat die folgenden zulässigen Pegel für Lärmbelastung festgelegt:

Dauer pro Tag in Stunden	Geräuschpegel dBA (gängige Skala)
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 oder weniger	115
20. Laut OSHA kann jede Belastung über den obenstehenden zulässigen Grenzwerten zu einem gewissen Gehörverlust führen. Sollte die Belastung die obenstehenden Grenzwerte übersteigen, müssen beim Betrieb dieses Verstärkungssystems Ohrstöpsel oder Schutzvorrichtungen im Gehörgang oder über den Ohren getragen werden, um einen dauerhaften Gehörverlust zu verhindern. Um sich vor einer möglicherweise gefährlichen Belastung durch hohe Schalldruckpegel zu schützen, wird allen Personen empfohlen, die mit Geräten arbeiten, die wie dieses Verstärkungssystem hohe Schalldruckpegel erzeugen können, beim Betrieb dieses Geräts einen Gehörschutz zu tragen.

20. Symbole und Nomenklatur, die auf dem Produkt und in den Handbüchern stehen, sollen den Bediener auf die Bereiche, in denen besondere Vorsicht notwendig sein kann, alarmieren und sind wie folgt:



Sollen den Benutzer auf das Vorhandensein von "gefährlicher Hoch-Spannung" im Gerätegehäuse hinweisen, um die Gefahr eines elektrischen Schlags für Personen zu vermeiden.

Sollen den Benutzer auf das Vorhandensein wichtiger Betriebs- und Wartungsanweisungen in der beigelegten Dokumentation aufmerksam machen.

Gefahr eines elektrischen Schlags - NICHT ÖFFNEN. Um die Gefahr eines elektrischen Schlags zu reduzieren, darf die Abdeckung entfernt werden. Keine zu wartenden Teile im Inneren. Überlassen Sie die Wartung qualifiziertem Fachpersonal.

Gefahr eines elektrischen Schlags - NICHT ÖFFNEN. Um die Gefahr eines elektrischen Schlags zu vermeiden, darf die Abdeckung nicht geöffnet werden. Überlassen Sie die Wartung qualifiziertem Fachpersonal.

Wenn Ihr Gerät über einen Kippmechanismus oder eine "Tilt-back"-Funktion verfügt, benutzen Sie diese Funktion mit Vorsicht. Aufgrund der Leichtigkeit, mit der der Verstärker zwischen geraden und schrägen Rücken Positionen bewegt werden kann, verwenden Sie nur den Verstärker auf einer ebenen, stabilen Oberfläche. NICHT den Verstärker auf einem Schreibtisch, Tisch, Regal oder sonst eine ungeeignete nicht stabile Plattform stellen.

INSTRUÇÕES DE SEGURANÇA

AVISO: Ao usar produtos elétricos, advertência básica devem ser sempre seguidas, incluindo as seguintes:

1. Leia estas instruções.
2. Guarde estas instruções de segurança.
3. Preste atenção a todos os avisos.
4. Siga todas as instruções.
5. Não use este aparelho perto da água.
6. Limpe apenas com um pano seco.
7. Não bloqueie qualquer uma das aberturas de ventilação. Instale de acordo com as instruções do fabricante.
8. Não instale perto de fontes de calor, como radiadores, aquecedores, fogões ou outros aparelhos (incluindo amplificadores) que produzem calor.
9. Um aparelho com a construção de classe I devem ser conectado a uma tomada elétrica com ligação de proteção. Não anule a finalidade de segurança da ficha polarizada ou do tipo terra. Uma ficha polarizada possui duas lâminas, uma mais larga que a outra. Uma ficha do tipo terra tem duas lâminas e um terceiro pino de aterramento. A lâmina larga ou o terceiro pino são fornecidos para sua segurança. Se a ficha fornecida não encaixar na sua tomada, consulte um electricista para a substituição da tomada obsoleta.
10. Proteja o cabo de alimentação de pisadelas ou apertos, especialmente nas fichas, receptáculos de conveniência e no ponto de saída do aparelho.
11. Utilize apenas ligações / acessórios fornecidos pelo fabricante.
12. Use somente com o carrinho, estrutura, tripé, suporte, ou mesa especificados pelo fabricante ou vendidos com o aparelho. Quando utilizar um carrinho, tenha cuidado ao mover o conjunto carrinho / dispositivo para evitar danos provocados pela queda. 13. A ficha da tomada ou aparelho foram utilizados como dispositivo de desconexão e deve estar sempre acessível. O usuário deve permitir o acesso fácil a qualquer ficha, acoplador de alimentação e interruptor de rede usada em conjunto com esta unidade, assim, tornando-o acessível. Desligue o aparelho durante tempestades com raios ou quando não for utilizado por longos períodos de tempo.
14. Solicite a assistência de pessoal qualificado. A manutenção é necessária quando o aparelho tiver sido danificado de qualquer maneira, como quando o cabo de alimentação ou a ficha estiverem danificados, líquido foi derramado ou objetos caídos dentro do aparelho, o aparelho tenha sido exposto à chuva ou umidade, não operar normalmente, ou se vier caído.
15. Nunca quebre o pino terra. Ligue apenas a uma fonte de energia do tipo marcada na unidade adjacente ao cabo de fornecimento de energia.
16. Se este produto for para ser montado em um bastidor de equipamentos, o suporte traseiro deve ser fornecido. 17. Nota para o Reino Unido: Se as cores dos fios do cabo de alimentação da unidade não correspondem com os terminais na ficha, faça o seguinte:
 - a) O fio que é colorido verde e amarelo tem de ser ligado ao terminal que está marcada com a letra E, o símbolo de terra, de cor verde ou colorido em verde e amarelo.
 - b) O fio de cor azul, que tem de ser ligado ao terminal que está marcada com a letra N ou a cor preta.
 - c) O fio que é castanho deve ser ligado ao terminal que está marcada com a letra L ou a cor vermelha. Aparelhos elétricos.
18. This não deve ser exposto a respingos e os cuidados devem ser tomados para não colocar objetos que contenham líquidos, tais como vasos, sobre o aparelho.
19. A exposição a níveis de ruído extremamente alta pode causar uma perda permanente da audição. Os indivíduos variam consideravelmente a susceptibilidade ao ruído induzido perda de audição, mas quase todo mundo vai perder alguma audição se expostos a ruído suficientemente intensa durante um tempo suficiente.

Segurança do Trabalho do governo dos EUA e Administração de Saúde (OSHA) especificou os seguintes exposições de nível de ruído admissíveis: de acordo com OSHA, a exposição em excesso dos limites admissíveis acima poderá resultar em alguma perda de audição. Tampões ou protetores para o canal auditivo ou sobre as orelhas, deve ser usada quando se opera este sistema de amplificação de modo a evitar a perda permanente da audição, se a exposição for superior a dos limites tal como descrito acima.

Para garantir contra a exposição potencialmente perigosa para elevados níveis de pressão de som, recomenda-se que todas as pessoas expostas a um equipamento capaz de produzir níveis elevados de pressão sonora, como este sistema de amplificação de voz protegidos por protetores auditivos enquanto esta unidade está em operação.

20. Símbolos e nomenclatura utilizados no produto e nos manuais de produtos, destinados para alertar o operador para as áreas onde o cuidado extra pode ser necessário, são os seguintes:



Com a intenção de alertar o utilizador para a presença de "tensão perigosa" alto dentro do recinto produtos que poderá ser suficiente para constituir um risco de choque elétrico para as pessoas.

Com a intenção de alertar o usuário da presença de importantes de operação e manutenção (assistência) na literatura que acompanha o produto.

Risco de choque elétrico - NÃO ABRA. Para reduzir o risco de choque elétrico, não remover a tampa. Não existem peças no interior. Consulte um técnico qualificado.

Para evitar choque elétrico ou risco de incêndio, não exponha este aparelho à chuva ou umidade. Antes de utilizar este aparelho, leia atentamente as instruções de operação.

Se o seu aparelho possui um mecanismo de inclinação ou um armário estilo propina, por favor, use esse recurso de design com cautela. Devido à facilidade com que o amplificador pode ser movida entre as posições de costas rectas e inclinada, usar apenas o amplificador numa superfície plana e estável. NÃO operar o amplificador em uma escrivaninha, mesa, prateleira ou de alguma forma inadequada plataforma nonstable.



IMPORTANTI ISTRUZIONI DI SICUREZZA



AVVERTENZE: Quando si usano prodotti elettrici, alcune precauzioni dovrebbero essere sempre seguite, tra cui le seguenti:

1. Leggere queste istruzioni.
2. Conservare queste istruzioni di sicurezza.
3. Osservare tutte le avvertenze.
4. Seguire tutte le istruzioni.
5. Non utilizzare questo apparecchio vicino all'acqua.
6. Pulire solo con un panno asciutto.
7. Non ostruire le aperture di ventilazione. Installare in conformità con le istruzioni del produttore.
8. Non installare vicino a fonti di calore come radiatori, regolatori di calore, stufe o altri apparecchi (inclusi gli amplificatori) che producono calore.
9. Un apparecchio in Classe I deve essere collegato a una presa di corrente di rete con connessione di protezione. Non annullare l'obiettivo di sicurezza della spina polarizzata o con messa a terra. Una spina polarizzata ha due lame, una più larga dell'altra. Una spina con messa a terra ha due lame e un terzo polo di terra. La lama più larga o il terzo polo servono per la sicurezza. Se la spina fornita non è adatta alla propria presa, consultare un elettricista per la sostituzione della presa obsoleta.
10. Proteggere il cavo di alimentazione venga calpestato o schiacciato, soprattutto in corrispondenza delle spine, delle prese e al punto in cui esce dall'apparecchio.
11. Usare solo dispositivi opzionali / accessori forniti dal produttore.
12. Usare solo con un carrello, supporto, cavalletto, sostegno o tavola specificate dal produttore o venduti con l'apparecchio. Quando si usa un carrello, prestare attenzione, muovendo il carrello / la combinazione di apparecchi, a non fermarsi-ovver.
13. La spina dell'alimentazione o apparecchio viene utilizzato come dispositivo di scollegamento e deve restare sempre operativo. L'utente deve consentire il facile accesso a qualsiasi presa di rete, accoppiatore di rete e interruttore di rete utilizzato in combinazione con l'unità rendendo così facilmente accessibile. Scollegare l'apparecchio durante i temporali e se non viene utilizzato per lunghi periodi di tempo.
14. Per l'assistenza rivolgersi a personale qualificato. L'assistenza è necessaria quando l'apparecchio è stato danneggiato in qualsiasi modo, come ad esempio quando il cavo di alimentazione o la spina sono danneggiati, è stato versato del liquido o degli oggetti sono caduti all'interno, l'apparecchio è stato esposto a pioggia o umidità, non funziona normalmente, o è stato fatto cadere.
15. Non rompere il pino di terra. Collegare ad una presa di potenza del tipo indicato sull'apparecchio adiacente al cavo di alimentazione.
16. Il prodotto deve essere installato in un rack, supporto posteriore dovrebbe essere fornito.
17. Nota per solo Regno Unito: Se i colori dei fili del cavo di alimentazione di questa unità non corrispondono con i terminali della spina, procedere come segue:
 - a) Il cavo colorato verde e giallo deve essere collegato al terminale contrassegnato con la lettera E, il simbolo di massa, di colore verde o di colore verde e giallo.
 - b) Il filo che è di colore blu deve essere collegato al terminale contrassegnato con la lettera N o il nero.
 - c) Il cavo marrone deve essere collegato al terminale contrassegnato con la lettera L o di colore rosso.
18. This apparecchio elettrico non deve essere esposto a gocce o schizzi e si deve prestare attenzione a non posizionare oggetti contenenti liquidi, come vasi, sopra l'apparecchio.
19. L'esposizione a livelli sonori molto elevati può causare la perdita permanente dell'udito. Gli individui La sensibilità al rumore perdetta dell'udito causata, ma quasi tutti si perde un po' di danni in caso di esposizione al rumore sufficientemente intenso per un tempo sufficiente.

Sicurezza sul lavoro del governo degli USA and Health Administration (OSHA) ha elaborato la seguente tabella di tolleranza ai rumori: Secondo l'OSHA, l'esposizione prolungata ai limiti riportati qui a fianco potrebbe causare perdita di udito. Tappi per le orecchie o protezioni per il condotto orecchie o sopra le orecchie devono essere indossati quando si adopera questo sistema di amplificazione, al fine di evitare la perdita permanente dell'udito, se si superano i limiti di cui sopra. Per assicurarsi contro un'esposizione potenzialmente pericolosa ad elevati livelli di pressione sonora, si raccomanda che tutte le persone esposte ad apparecchi in grado di produrre elevati livelli di pressione sonora, come questo sistema di amplificazione essere protetti da dispositivi di protezione dell'udito mentre l'unità è in funzione.

20. Simboli e nomenclatura utilizzati sul prodotto e nei manuali dei prodotti, finalizzate ad avvisare l'operatore di aree in cui cautela possono essere necessarie, sono i seguenti:



Scopo di avvisare l'utente della presenza di "tensioni pericolose" alta all'interno del prodotto che può essere sufficiente per costituire un rischio di scossa elettrica per le persone.

Destinato per avvisare l'utente della presenza di importanti operatori e di manutenzione (assistenza) nella documentazione che accompagna il prodotto.

Rischio di scossa elettrica - NON APRIRE. Per ridurre il rischio di scosse elettriche, non rimuovere il coperchio. Non ci sono parti riparabili dall'utente. Per la manutenzione rivolgersi a personale qualificato.

Per evitare scosse elettriche o incendi, non esporre questo apparecchio alla pioggia o all'umidità. Prima di utilizzare questo apparecchio leggere le istruzioni per l'uso.

Se il vostro apparecchio è dotato di un meccanismo di inclinazione o di un mobile in stile contraccoppo, si prega di utilizzare questa caratteristica di design con cautela. A causa della facilità con cui l'apparecchio può essere spostato tra le posizioni schiena dritta e inclinata, utilizzare solo l'amplificatore su una superficie piana e stabile. NON utilizzare l'amplificatore su una scrivania, tavolo, uno scaffale o comunque inadatti piattaforma nonstable.

Durée par Jour (heures)	Niveau sonore moyen (dBA)
8	90
6	92
4	95
3	97
2	100
1 1/2	103
1	105
1/2	110
1/4 ou inférieur	115

Duração por Dia em Horas	NSA Nível de som, resposta lenta
8	90
6	92
4	95
3	97
2	100
1 1/2	103
1	105
1/2	110
1/4 ou less	115

重要安全说明

警告：使用电器产品时，应始终遵循基本的注意事项，包括以下各项：

1. 阅读这些说明。
2. 确保此类说明放置于安全处。
3. 注意所有警告。
4. 请遵守所有说明。
5. 请勿在近水处使用该电器。
6. 仅可用干布清洁该电器。
7. 请勿堵塞该电器上的任何通风口。根据制造商的说明进行安装。
8. 请勿将该电器安装在靠近热源，如散热器、热风机、炉子或其他发热设备（包括功率放大器）。
9. 与 I 类建筑设备连接时，应连接到带保护的电源插座上。不要忽视极性或接地类型插头的安全作用。极性插头具有两个片状电极，其中一个较宽。接地类型插头具有两个片状电极和第三只接地脚。宽片状电极或第三只接地脚用于保证使用者及电器的安全。如所提供的插头不适用于插座，须请专业人员更换，切勿自行更换电源插座。
10. 保护电源线，不被踩踏或挤压，尤其在插头、插座以及电源线的连接处。
11. 仅可采用制造商提供的附件或配件。
12. 仅可使用制造商指定的、或与该电器一同出售的货车、台架、三脚架、支架或台桌。使用货车，及移动货车/搬运该电器时，须注意，避免倾翻产生损坏。
13. 电源插头或该电器的转接插头，应保持其可操作性。用户应使用与该电器匹配的电源插头、连接器和电源开关，易于操作。在雷雨或长时间不使用时，拔下该电源插头。
14. 当该电器受到任何方式的损坏时，如：电源线或插头被损坏、液体泼溅或物体落入电器内。该电器放置于有雨水或潮湿处、及该电器坠落后，无法正常运行，需进行检查时，必须有资格认证的维修人员进行维修。
15. 请勿折断电源插头上的接地极。仅可连接到在插头的片状电极旁边已标注符号的极性上。
16. 如此类电器安装在设备架上，应提供后部支架。
17. 仅适用于英国的注意事项。如该电器的电源线中电缆颜色与插头片状电极不相符，请按以下步骤进行操作：
 - a) 黄绿色电缆须连接至标有字母“E”的电极，为接地符号。颜色为黄绿色或绿色。
 - b) 蓝色电缆须连接至标有字母“N”的电极，颜色为蓝色或黑色。
 - c) 棕色电缆须连接至标有字母“L”的电极，颜色为棕色或红色。
18. 该电器不能放置于有水滴或有水溅出的地方，须注意，不要将盛有液体的容器，如花瓶放在该电器上。
19. 如果人处于极高噪音级中可能会造成永久失聪。每个人受噪音导致听力损害的差异很大。然而若长时间处于极强噪音中，任何人几乎都会造成不同程度的听力损害。美国政府职业安全健康管理局 (OSHA) 指定了以下允许范围内的噪音级别，见右表：根据 OSHA，任何超出上述允许的极限范围可导致不同程度的听力损害。在进行该电器时，人体处于超出了以上设定的限制，须佩戴耳塞或配备耳朵的保护装置，以防永久听力损害。为避免可能处于强声压程度的危险，该电器运行时，建议处于强声压程度下的所有人都配备听力保护装置。
20. 用于产品和说明书上的符号和术语是为了提醒操作人员注意需要额外注意的地方，具体如下：



每日接触时间 (小时)	每日允许声级 (dBA)
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4	115



旨在提醒使用者小心产品空箱内的未绝缘“危险电压”，这可能足以对人构成触电危险。

旨在提醒使用者与产品一起提供的说明书中的重要操作和维护（保修）说明。小心触电-不能打开

为了降低触电风险，请不要打开盖子。里面不含任何用户可用的配件。请将维修交于被许可的人员。

为避免触电或火灾，请不要将本产品置于雨中或潮湿环境中。在使用本产品前，请仔细阅读操作说明。



该产品仅适用于海拔2000m以下地区安全使用



该产品仅适用于非热带气候条件下安全使用

如果你的产品是倾斜的结构或是后倾款式的箱体，请小心使用该设计特征。由于功放可以在直立和后倾方式之间转换，请在平坦、牢固的表面上使用该产品。请不要在桌子、架子或其它不适合、不牢固的平台上使用该功放。

安全上的重要注意事项



电子机器を使用する際は、下記の注意事項に従ってご使用ください。ご使用前には必ずこの説明書をお読みください。

説明書は大切に保管してください。すべての注意事項を確認してください。

水などの液体を本体にこぼしたり、内部にかからないように注意してください。掃除するときは、乾いた布のみを使用してください。

通気孔は絶対に塞がないでください。

ラジエーター、ヒートレジスタ、ストーブ等、熱を発生する装置（アンプを含む）の近くには決して置かないでください。

電源コードは、踏まれたりはさまれたりしないように注意してください。メーカーによって供給されたパーツ以外は使用しないでください。

キャスター等は、付属品を使用してください。転倒等の事故がないように十分注意してください。

長時間使用しない時、また雷雨の時などはコンセントを抜いてください。電源コードやプラグの破損、強い衝撃や、液漏れ等の理由で正常に装置が動作しない場合は、ご購入店にご相談ください。

激しい騒音環境下では、永続的な聴覚を引き起こす可能性があります。

騒音性 聴覚への影響度には個人差がありますが、

激しい騒音の中にある一定の期間さらされた場合、ほとんどの人の聴覚に悪影響を及ぼす可能性があります。米国政府の

労働安全衛生局 (OSHA) は、ノイズレベルの許容量 (条件) を定めています： OSHAによると、許容量を超える騒音は、

少なからず聴覚に繋がる可能性があります。このアンプシステムを操作する際、

万が一制限値を超えている場合は、永続的な聴覚を防ぐために耳栓などを使用してください。機材またはマニュアルに記載された記号、及び名称は、ご使用時に注意が必要なものとなります。

下記をご参照ください。

1日の時間数	騒音レベル(dBA) 容許レベル
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4	115

機材内部には、人に感電する危険性のある“高電圧”が流れている場合があります。

付属の冊子に書かれている操作上、または管理上（サービス上）重要な事項を確認してください。

製品カバーを開けないでください。感電の危険性を減らすためにも、蓋は取り外さないでください。内部にはユーザーが修理できる部品はありません。資格ある技術者の指示を仰いでください。



感電や火災の危険を防止するため、この装置を雨や湿気にさらさないでください。使用前には、必ず取扱説明書をお読みください。

(アンプを使用しないときは、スイッチをオフにし、電源コードは抜いてください)

場合は、アプライアンスの機能傾斜機構やキックバック スタイルのキャビネットは、注意してこのデザイン機能を使用してください。

アンプ ストレートに戻って傾斜の位置間で移動できますがしやすいため、

水平で安定した表面に、アンプのみ使用します。

デスク、テーブル、

棚またはそれ以外の場合に不適切な

nonstable プラットフォーム上増幅器を

操作しないでください。

중요안전수칙



경고: 전기 제품을 사용하는 경우, 다음과 같은 기본적인 수칙을 항상 준수해야 합니다.

1. 지침을 읽으십시오.
2. 지침을 안전하게 보관하십시오.
3. 모든 경고에 유의하십시오.
4. 모든 지침을 따르십시오.
5. 이 제품을 물 근처에서 사용하지 마십시오.
6. 항상 마른 천으로 청소하십시오.
7. 통풍구를 막지 마십시오. 제조사의 지침에 따라 설치하십시오.
8. 난방기, 열 조절 장치, 스토브 또는 다른 장치(열포 포함) 등 발열 근처에 설치하지 마십시오.
9. Class 1 구조의 제품은 보호 커넥션과 함께 전원 콘센트에 연결해야 합니다. 유극 형 또는 접지 형 플러그의 안전수칙을 준수하십시오. 유극형 플러그는 다른 것보다 넓은 두 개의 날이 있습니다. 접지 형 플러그에는 두 개의 날과 세 번째 접지각이 있습니다. 넓은 날이나 세 번째 접지용 각은 사용자의 안전을 위해 제공됩니다. 제공된 플러그가 사용자의 콘센트와 맞지 않는 경우에는 전기 기술자에게 콘센트 교체를 문의하십시오.
10. 특히 플러그, 콘센트 및 기기에서 나오는 곳에서 전원모드가 밝거나 끄이는 것을 방지하십시오.
11. 제조사가 제공하는 부속 및 액세서리만을 사용하십시오.
12. 제조사가 지정한 카드, 스캔, 삼각대, 받침대 또는 테이블 그리고 제품과 함께 판매된 것들만 사용하십시오. 카드를 제품과 함께 이동할 때 제품이 뒤집어져 부상을 당하지 않도록 카드 사용시 주의하십시오.
13. 전원 플러그나 기기를 제거하는 분리장치로 사용되며 즉시 작동할 수 있는 상태로 유지해야 합니다. 사용자 또는 모든 전원 플러그에 쉽게 접근이 가능해야 하며 전원 커넥터와 전원 스위치가 이 유닛과 잘 결합하여 함께 작동해야 합니다. 진동되거나 장시간 사용하지 않을 경우 장치의 플러그를 뽑으십시오.
14. 자격을 갖춘 서비스 엔지니어에게 모든 서비스를 문의하십시오. 예를 들어 전원 공급 코드나 플러그가 손상되었거나 액체가 제품이 떨어진 경우, 제품에 비 또는 습기에 노출된 경우, 정상적으로 작동하지 않거나 제품을 떨어뜨린 경우에는 서비스가 필요합니다.
15. 그라운드 핀을 억지로 분리하지 마십시오. 전원모드에 인접한 장치에 표시된 유형의 전원에만 연결하십시오.
16. 이 제품을 장비선반에 올릴 경우 뒷면 지지대가 필요합니다.
17. 영국을 위한 노트: 전원 전선의 색상이 사용자 플러그의 터미널과 일치하지 않는다면 다음과 같이 진행하십시오.
 - a) 녹색과 노랑색 와이어는 E라고 적힌 녹색이나 노랑색 터미널과 연결되어야 합니다.
 - 파란색 와이어는 N이라고 적힌 검은색 터미널과 연결되어야 합니다.
 - 갈색 와이어는 L이라고 적힌 빨간색 터미널과 연결되어야 합니다.
18. 이 전기 제품은 습기나 액체에 노출되지 않아야 하며, 액체를 포함하는 곳들과 함께 위치하면 안 됩니다.
19. 상당히 높은 노이즈 레벨에 노출되면 청력이 손상될 수 있습니다. 상당한 시간 동안 집중적인 노이즈에 노출되면 거의 모든 사람들이 청력을 상실할 수 있습니다. 미국 정부의 산업안전보건관리 Occupational Safety and Health Administration (OSHA)는 다음과 같은 허용 소음 레벨을 지정하였습니다. OSHA에 따르면 위의 허용 한도를 초과하는 노출은 약간의 청력 손실이 발생할 수 있습니다. 이 영프 시스템을 작동할 때 노출이 위 명시된 한계를 초과하는 경우, 영구적인 청력 손실을 방지하기 위해서 귀를 보호하기 위한 귀마개 등을 착용해야 합니다. 또한 높은 음압의 잠재적인 위험 노출에 대비하기 위해서는 영프 같은 높은 음압을 낼 수 있는 기기가 작동되는 동안 귀 보호장비가 필요합니다.
20. 사용자의 주의를 필요한 제품 매뉴얼에서 사용되는 기호 및 명칭은 다음과 같습니다.

작업 시간	Sound Level (dB), slow response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4	115

제품에 동봉된 'Dangerous Voltage'는 사람에게 전기적 충격의 위험을 경고하기 위한 것입니다.



제품에 주요 동작 및 유지 보수(서비스) 내용이 포함된 지침서는 사용자를 위한 것입니다.

감전위험- 열지 마십시오. 감전의 위험을 줄이기 위해 커버를 제거하지 마십시오. 자격을 갖춘 엔지니어에게 문의하십시오.

감전이나 화재의 위험을 방지하기 위해서 이 제품을 비나 습기에 노출시키지 마십시오. 이 제품을 사용하기 전에 사용설명서를 읽어보시기 바랍니다.

(영프를 사용하지 않을 때는 항상 스위치를 끄고 전원 코드를 뽑으십시오)

사용자의 기기가 콤팩트 스타일(기기를 뒤로 기울이는 스타일)의 개방된 경우 이 디자인의 주의사항을 확인하십시오. 특히 영프를 복귀하거나 세우거나 기울이던 영프를 평평한 곳에서 사용하십시오. 영프를 절대 책상이나 테이블 선반 또는 다른 적절하지 않은 곳에서 작동하지 마십시오.



USER MANUAL

MODEL NUMBER:

SERIAL NUMBER:

PLACE OF PURCHASE:

DATE OF PURCHASE:

PLEASE COMPLETE FOR FUTURE REFERENCE

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