

LFR-110

FULL RANGE FLAT RESPONSE CABINET



A close-up, low-angle shot of the top corner of a black, textured speaker cabinet. The cabinet has a fine, pebbled texture. A silver-colored metal trim runs along the top edge. The Laney logo is visible on the grille. The lighting is dramatic, with strong highlights and deep shadows.

Laney

USER MANUAL

Laney™

CONTENTS

INTRODUCTION2

 FEATURES2

CONTROLS3

CONNECTING THE LFR-1106

 CONNECTING THE INPUTS.....6

 BLUETOOTH AUDIO CONNECTION6

 TWS BLUETOOTH AUDIO CONNECTION7

 CONNECTING THE DI OUT8

 CONNECTING TWO LFR-110 WIRED.....8

SPECIFICATIONS9

BLOCK DIAGRAM10

 DIMENSIONS (in mm).....11

SAFETY AND WARNINGS12

INTRODUCTION

Modern digital guitar rigs allow players access to an astounding array of truly amazing sounding amplifiers, cabinets and effects combinations which only a few years ago, guitar players could only dream about.

You can now take your digital guitar rig anywhere you want, from writing at home, to the recording studio, all the way to playing live on stage.

But to do that you need a cabinet that gives you more than a pair of headphones gives you - you need a cabinet that moves air around you, a cabinet that gives you the feel of an amp in the room. Designed to move lots of air and deliver the varied tones of a digital guitar set up, the LFR-110 has been designed to be at home either in the living room, in the studio or live on stage.

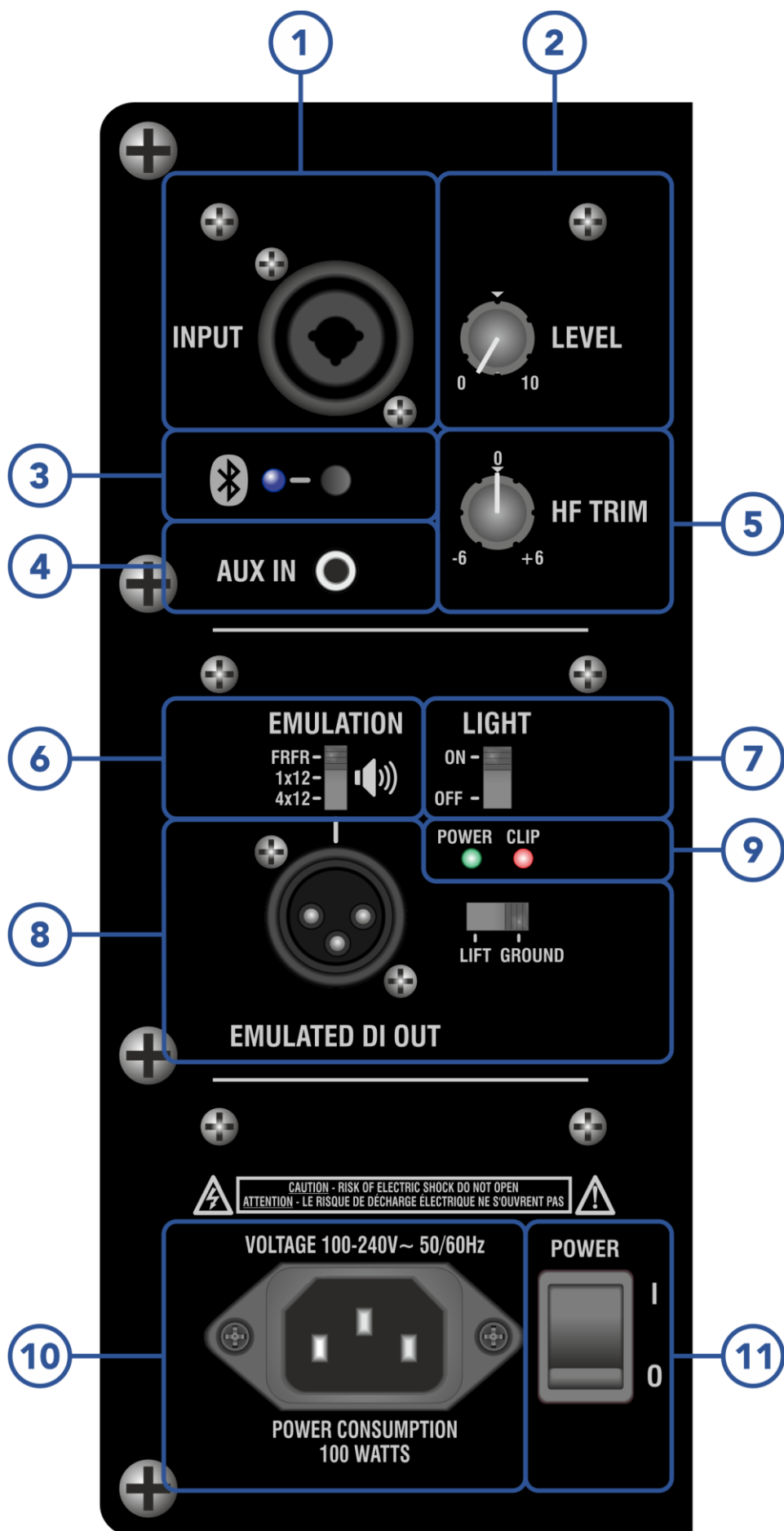
Despite its small compact size, the LFR-110 has a secret power, it sounds BIG. The LFR-110 is a powerful full range flat response powered cabinet designed for guitar players. Loaded with a HH Blue 10" woofer and a 1" LaVoce Compression driver the LFR-110 delivers detailed, precise, full range response with no unwanted colouring. The best thing about an LFR cabinet is that it sounds as good quiet as it does loud. This makes them great for rehearsing or playing at home when you cannot always be as loud as you really want to be.

With the ability to stream audio into the LFR-110 via Bluetooth®, the LFR-110 is the total solution when it comes to partnering your digital solution - from home to stage and everywhere in between.

FEATURES

- 250 Watts High Power Class-D Power Amplifier
- Full Range Flat Response powered cabinet
- Bluetooth®
- Selectable cabinet emulation, FRFR, 1x12, 4x12
- Level Control
- HF Trim
- Balanced XLR/JACK combi input
- Switchable cabinet illumination
- 3.5mm Stereo Aux In

CONTROLS



1. INPUT SOCKET

The LFR-110 features a female XLR Combi Jack input marked INPUT. This socket accepts standard balanced XLRs or 6.3mm jack in either balanced TRS or unbalanced TS formats. Balanced connections should be used as much as possible to reduce AC HUM and interference, especially with long cable runs. This is a line level input.

2. LEVEL CONTROL

Control the overall level of the LFR-110 cabinet. Turn the LEVEL control clockwise to increase gain and counterclockwise to decrease gain. Always observe the red CLIP led when adjusting the LEVEL control. For the best signal to noise ratio, set your input level so that you have the red CLIP led blink occasionally, but not constantly. A constant CLIP led light indicates an over loading condition and should be avoided. When the control is at maximum the input sensitivity is around -20dBu and when the control is centred the input sensitivity is around -10dBu. For higher level line levels such as 0 or +4dBu the control should generally be less than midway. Midway is a good starting point for most gear.

3. BLUETOOTH

Press the Bluetooth button to enable, the led will flash slowly while looking for devices. Look for **Laney LFR** in your device to pair and follow its pairing instructions. This connection supports A2DP audio streaming. The stereo Bluetooth left and right signal are internally summed and routed to the LFR outputs. The Bluetooth signal is not affected by the LEVEL, HF TRIM and EMULATION controls. The level of Bluetooth signal should be controlled on your external device.

The onboard Bluetooth input can also operate in TWS (True Wireless Stereo) mode by linking two LFR-110 cabinets together. This allows the right signal to be sent to the primary LFR-110 with the left channel going to a secondary cabinet. In this mode, true stereo operation is achieved and as the cabinets can be spaced out give a tremendous stereo field. See [TWS BLUETOOTH AUDIO CONNECTION](#) for TWS operation.

Your device is automatically stored in the LFR-110 memory once paired and will automatically reconnect in future when Bluetooth is turned on and the device is in range. Bluetooth pairing information may be erased from the LFR by enabling Bluetooth and then holding the Bluetooth button for 10 seconds, the led will then flash quickly twice and the pairing list will be erased. You will need to do this for both units if you have setup TWS pairing previously.

4. AUX IN

A 3.5mm Audio input socket intended for adding backing tracks to your playing. The LEVEL, HF TRIM and EMULATION controls do not affect the AUX signal. Nominal -10dBu sensitivity.

5. HF TRIM CONTROL

Tailor the cabinets high frequency response to your environment. A HF shelving filter allows you to increase or decrease the high end of your signal quickly and easily without having to alter your patch parameters. The control offers ± 6 dBu range with centre being flat.

6. EMULATION

Emulation is applied to both the DI and loudspeaker outputs and has three modes available

- **FRFR** – gives you a FULL RANGE FLAT RESPONSE output – totally flat and uncoloured. Ideal when you already have an IR in your rig.
- **1x12** – gives you a great overall tone with a focussed mid-range punch associated with a compact closed back cabinet.
- **4x12** – gives you an increased low-end punch and a greater overall projection on stage.

The emulation mode appears on both DI-OUT and loudspeaker outputs.

7. FRONT LED STRIP SWITCH

Turn on and off the LED downlight strip found on the front panel of the Laney LFR-110 cabinet.

8. EMULATED DI OUT

A balanced XLR line level output feed. A ground lift switch is provided to reduce or remove ground related noise that may arise from ground loops when multiple units are connected. The DI out feed is post EQ and post input level so reflects the same as your on stage sound.

9. POWER AND CLIP LEDS

POWER LED will light green whenever the LFR-110 is plugged in and powered on. The CLIP led (to be used in conjunction with the LEVEL control) will turn red at the onset of clipping.

10. MAINS INLET SOCKET

Standard C14 IEC input to connect the provided mains cable to your voltage supply. The LFR-110 is universal voltage and can be run from any standard voltage source from 100V to 240V~ 50/60Hz with no modification or fuse changes required. This socket accepts a standard IEC C13 cable (included)

11. POWER SWITCH

Turns the LFR-110 on and off when the correct power lead is connected. It is good practice to ensure the LEVEL control is set to minimum when turning the unit on or off to avoid surprises!

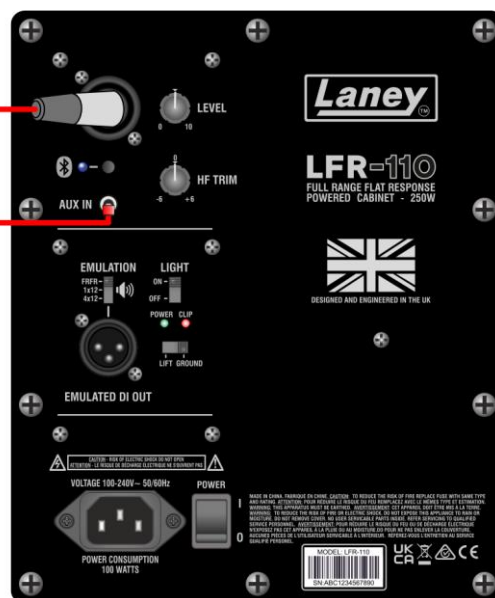
CONNECTING THE LFR-110

CONNECTING THE INPUTS

The Laney LFR-110 has two wired input sockets. An XLR / 6.3mm combi jack for your balanced guitar signal input and a 3.5mm aux in to connect a backing track via a media player such as your mobile phone. The combi input would typically connect to your modeller and is not suitable for directly plugging in a guitar.

INPUT FROM PEDAL BOARD,
PREAMP MODELLER OR DAW

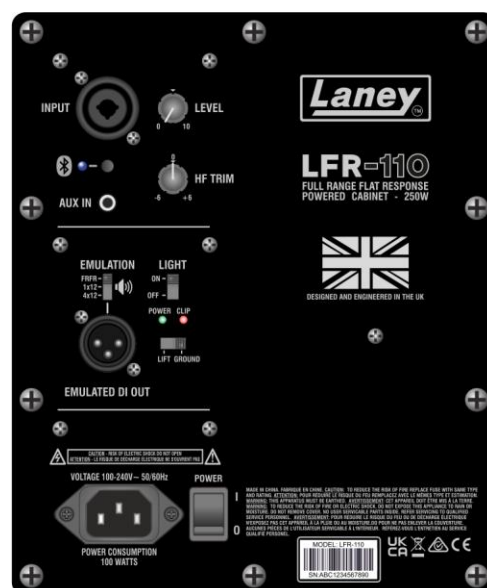
AUX INPUT FROM
MOBILE DEVICE



BLUETOOTH AUDIO CONNECTION

Press Bluetooth button to enable, led will flash slowly. Look for Laney LFR in your device. Once connected the LED will illuminate constantly. See the Bluetooth® section.

BLUETOOTH AUDIO
FROM MOBILE DEVICE



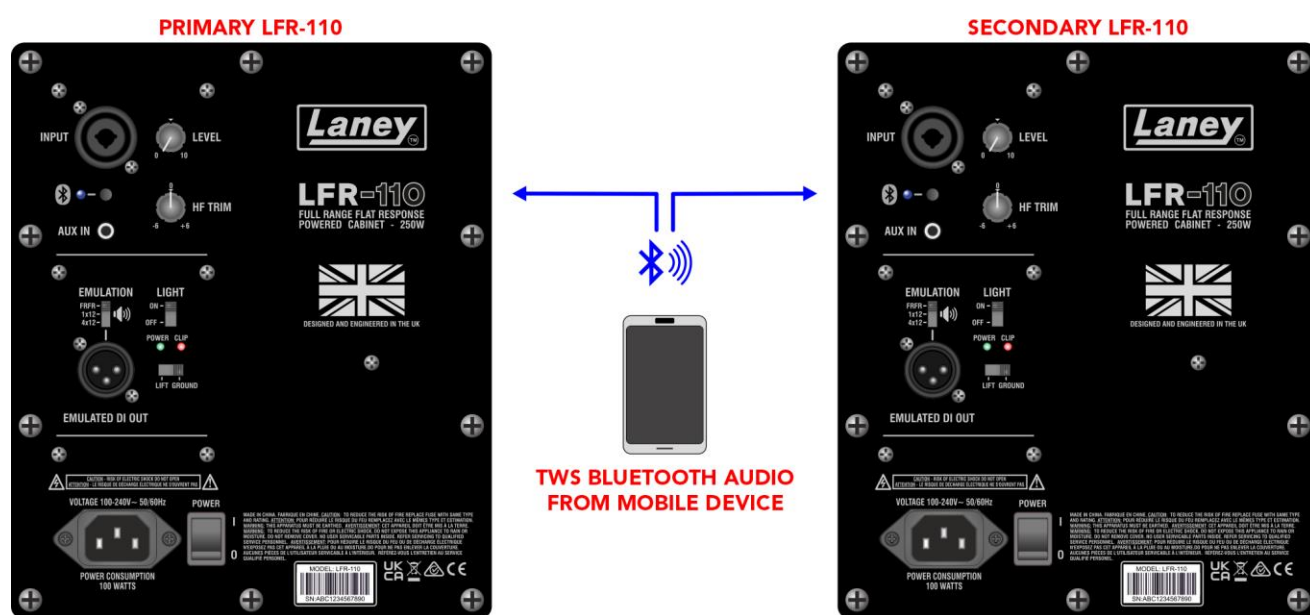
TWS BLUETOOTH AUDIO CONNECTION

Two LFRs may be paired together via TWS to enable true stereo Bluetooth audio to be used. Note, only the Bluetooth signal is sent wirelessly between cabinets.

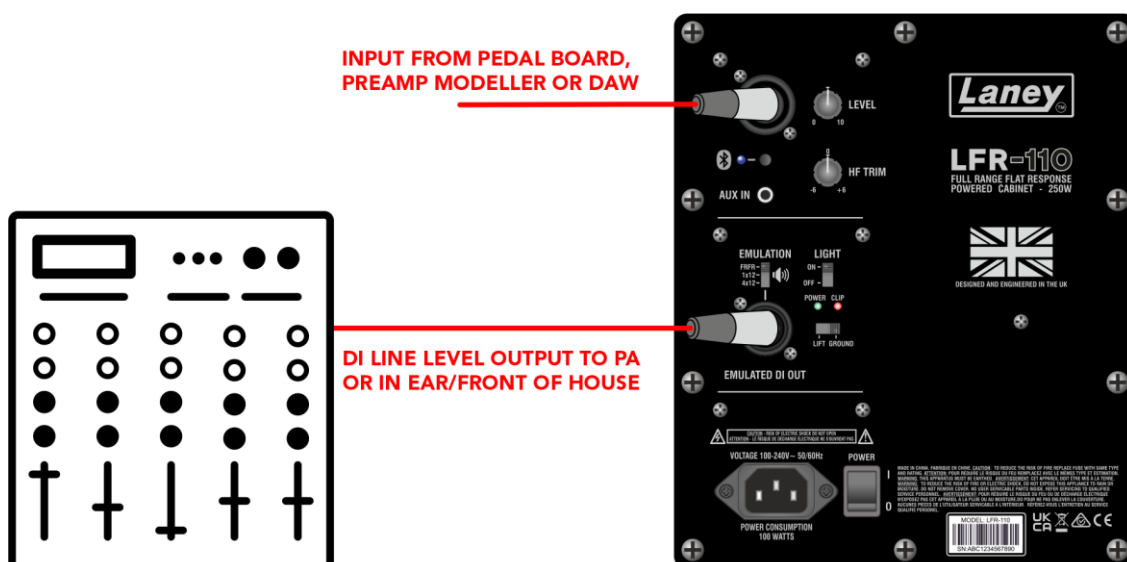
PRIMARY LFR: Pair and connect the primary LFR-110 to a Bluetooth device as explained in [BLUETOOTH AUDIO CONNECTION](#) above. Once connected and active, press and hold the Bluetooth button for 3-4 seconds. This will result in the Bluetooth led flashing quickly.

Secondary LFR: While the primary unit is still in TWS pairing mode, enable Bluetooth on the secondary unit with a single press to enable, then press and hold the button on the secondary unit for 3-4 seconds to enable TWS pairing on this unit too.

Both units will communicate and pair. The Primary LFR will be set to the right channel with the Secondary LFR to the left channel. The pairing is saved for future usage. The led will change to constantly lit to indicate connection established.



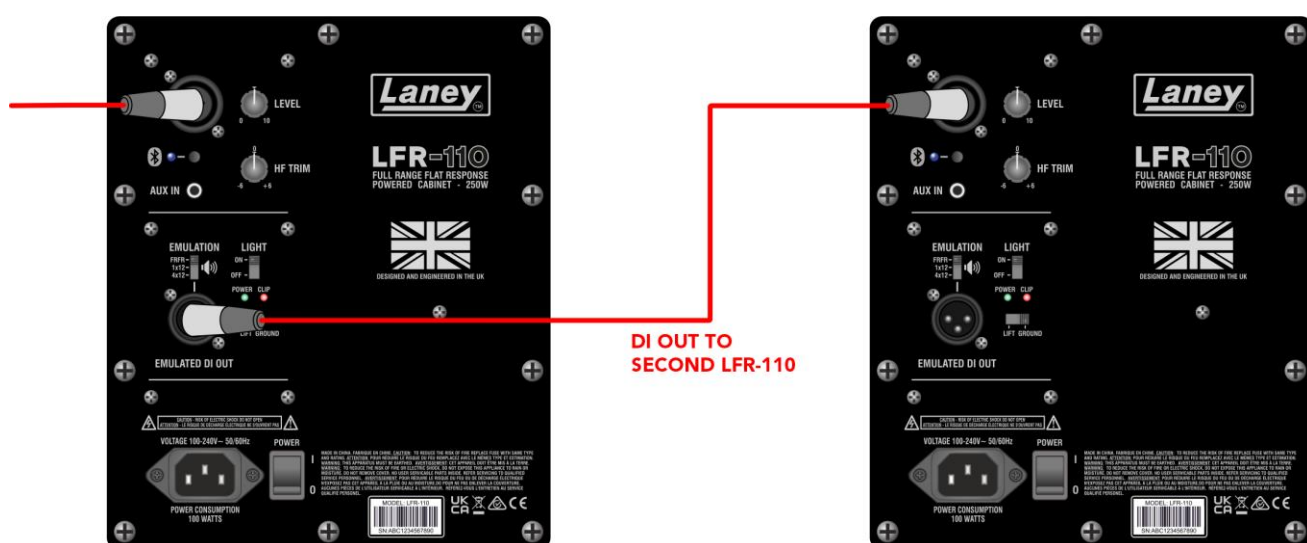
CONNECTING THE DI OUT



The XLR DI-out provides a balanced line level output to connect to your PA, front of house or in ear monitors. The DI OUT tracks the loudspeaker output and is affected by the VOLUME, TRIM and EMULATION controls.

CONNECTING TWO LFR-110 WIRED

Two LFR-110's can be connected. This is done by connecting the XLR Input of the secondary cabinet to the DI OUT of the primary. It is also recommended that if the EMULATION setting on the Primary cabinet is either 1x12 or 4x12, then the FRFR setting should be used on the secondary cabinet to avoid doubling up. Note, as the DI out is a post EQ/Level/Bluetooth send it is recommended that this method is not used while using Bluetooth TWS mode. Instead Connect your input to both cabinets separately using an AB-Y lead or your Left and Right sends from your rig.

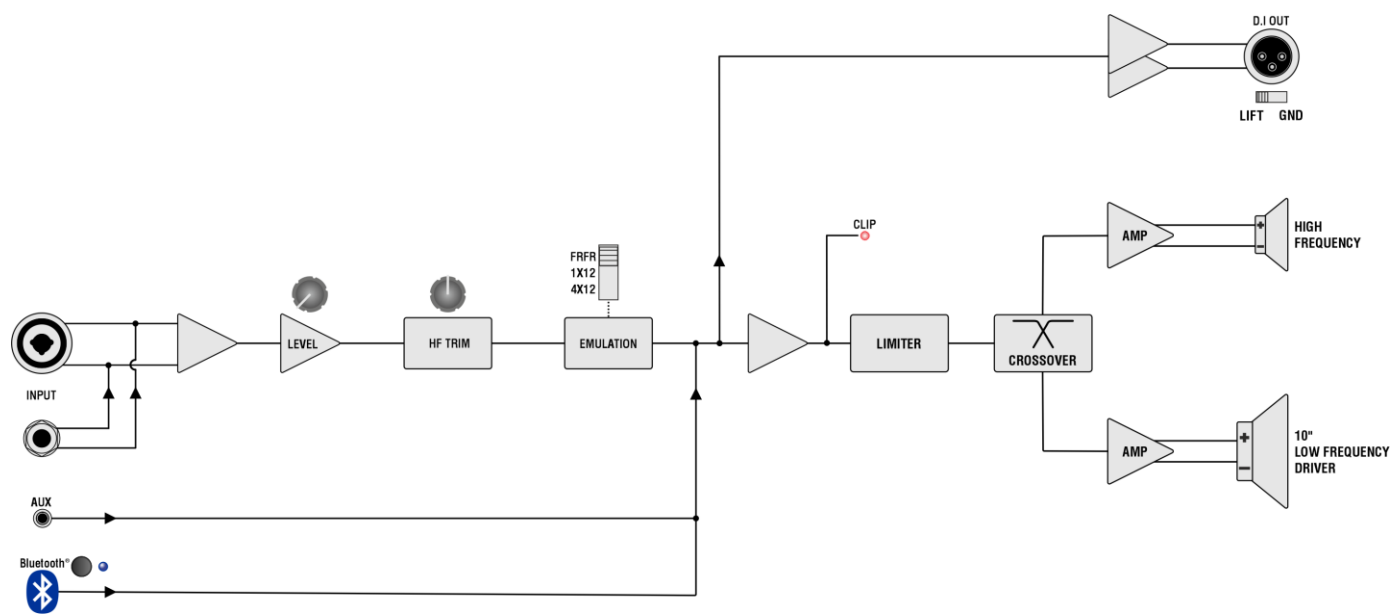


SPECIFICATIONS

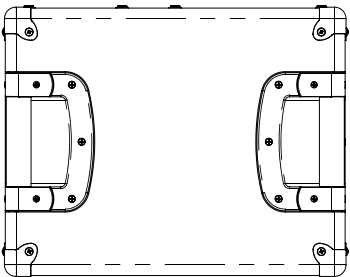
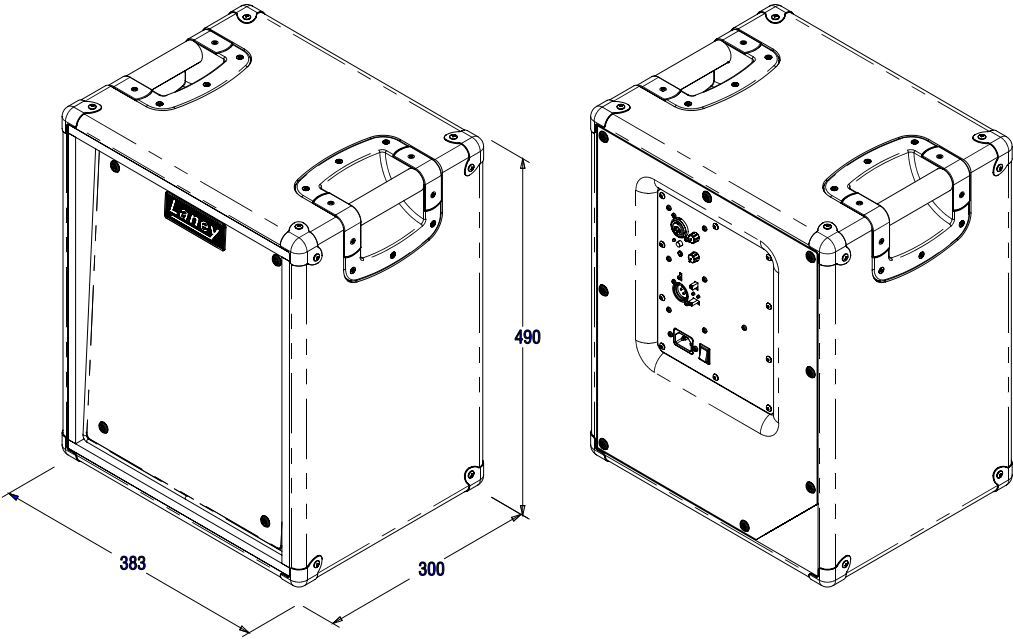
Model No	LFR-110
Type	Full Frequency Range Flat Response Powered 1x10" Cabinet
Frequency response (-10dB)	55Hz > 18kHz
Max SPL (1M)	118 dB SPL (Continuous), 121 dB SPL (Peak)
Power Rating	250W Peak, 125W RMS
Amplifier Type	Class D, with fully passive convection cooling for silent operation
Input	Balanced Female XLR/Jack Combi, 3.5mm Stereo aux in, Bluetooth® Connectivity
Output	Balanced Male XLR DI Out
Controls	Volume, HF Trim, DI out Emulation Switch, Ground lift, Light switch.
Bluetooth	Bluetooth® 5.4 with True Wireless Stereo (TWS) functionality to two units, supporting A2DP streaming
Illumination	Front illuminated downlight strip
HF Driver	1" LaVoce DF10 Compression Driver and Horn
LF Driver	10" HH Blue 25038 Professional Woofer
Crossover Frequency	2.4kHz
HF Directivity	70° conical
Enclosure	Precision-engineered 15mm MDF cabinet for enhanced structural stability and acoustic performance
Handles	Top mounted grab steel bar handles for comfortable and easy transportation
Finish	Hard wearing black vinyl, Black Metal Corners
Power Supply	Internal SMPSU 100-240V~ Universal Voltage 50/60Hz. IEC C14 Inlet
Power Consumption	100 Watts Typical, 220 Watts Maximum
Unit dimensions (HWD)	490 x 383 x 300mm, (19.3" x 15.1" x 11.8")
Unit weight	13.1Kg, (28.9 lbs)
Carton dimensions (HWD)	565 x 465 x 385mm, (22.2" x 18.3" x 15.2"), 0.101 M3
Packed Weight	16Kg, (35.3 lbs)
EAN Code	5060109459586

In the interest of continued development, Laney reserves the right to amend product specification without prior notification. Bluetooth® is a registered trademark of Bluetooth SIG and used under license.

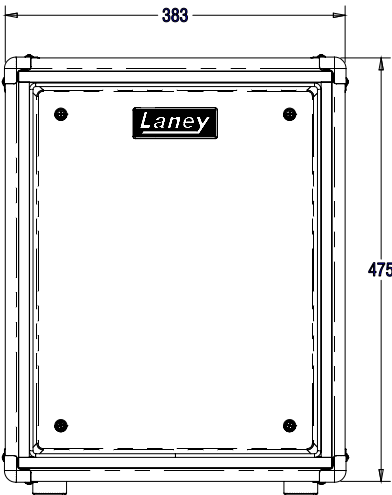
BLOCK DIAGRAM



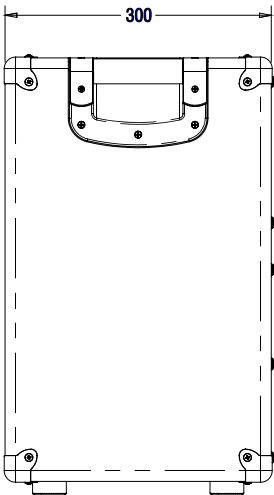
DIMENSIONS (in mm)



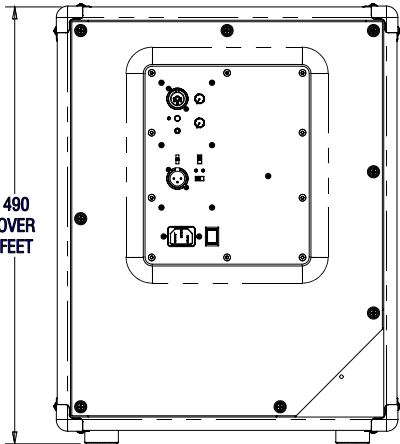
TOP



FRONT



RIGHT



REAR

SAFETY AND WARNINGS

MANUFACTURER: LANEY AMPLIFICATION. STEELPARK ROAD,
COOMBS WOOD BUSINESS PARK WEST, HALESOWEN, B62 8HD, UK

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: To avoid damage, generally 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, 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 amplifier LAST and making sure its level control is set to a minimum, any transients from other equipment should not reach your loudspeakers. 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 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. Use good quality shielded cables everywhere else.
- 4) Servicing: The user should not attempt to service these products. Refer all servicing to qualified service personnel.
- 5) Heed all warnings.
- 6) Follow all instructions.
- 7) Do not use this apparatus near water.
- 8) Clean only with a dry cloth.
- 9) Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
- 10) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 11) 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.
- 12) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
- 13) Only use attachments/accessories provided by the manufacturer.
- 14) 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.
- 15) 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 thus making it readily operable. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 16) 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 or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 17) 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.
- 18) If this product is to be mounted in an equipment rack, rear support should be provided.
- 19) 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:
 - o 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.
 - o The wire that is coloured blue must be connected to the terminal that is marked with the letter N or the colour black.
 - o The wire that is coloured brown must be connected to the terminal that is marked with the letter L or the colour red.
- 20) 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.
- 21) 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 more than 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 to prevent a permanent hearing loss, if exposure is more than 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.
- 22) 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.
- 23) For models with built in Bluetooth. The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Headstock Distribution Ltd is under license. Other trademarks and trade names are those of their respective owners. Laney Electronics Ltd. is a registered trademark of Headstock Distribution Ltd.
 - o INCORPORATED RADIO EQUIPMENT DEVICE TECHNICAL SPECIFICATION:
 - o Frequency Range: 2402-2480MHz
 - o Transmit Power: +4dBm (2.5mW)
 - o Receiver Sensitivity: -91dBm
 - o Operating Protocol: Bluetooth Class 2
 - o Bluetooth V5.4
- 24) 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:

Duration Per Day in Hours	Sound Level dBA, slow response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 ou inférieur	115

 CAUTION:	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.
 WARNING:	Intended to alert the user of the presence of important operating and maintenance (Servicing) instructions in the literature accompanying the product. Destiné à alerter l'utilisateur de la présence d'instructions importantes d'exploitation et de maintenance (entretien) dans la documentation accompagnant le produit. Este símbolo tiene el propósito de la alertar al usuario de las presencias 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: ATTENTION : PRECAUCION: VORSICHT:	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. Risques de choc électrique - NE PAS OUVIRIR. 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. Riesgo de descarga eléctrica - NO ABRIR. Para reducir el riesgo de descarga eléctrica, no quite la cubierta. No hay piezas reparables por el usuario en el interior. Remita el servicio a personal calificado. Risiko - Elektrischer Schlag! Nicht offen! Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vor Anwender repariert werden konnten. Reparaturen nur von qualifiziertem Fachpersonal durchführen lassen.
WARNING: ADVERTISSEMENT : ADVERTENCIA: ACHTUNG:	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. 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 supplantais situés dans le guide. Para evitar descargas eléctricas o peligro de incendio, no exponga este aparato a la lluvia ni a la humedad. Antes de usar este aparato, lea las instrucciones de funcionamiento para conocer más advertencias. Um einen elektrischen Schlag oder Feuergefahr zu vermeiden, sollte dieses Gerät nicht dem Regen oder Feuchtigkeit ausgesetzt werden. Vor Inbetriebnahme unbedingt die Bedienungsanleitung lesen.
	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 (2014/53/EU), ErP 2009/125/EU SIMPLIFIED EU DECLARATION OF CONFORMITY Hereby, Laney Electronics 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: http://support.laney.co.uk/approvals
	The object of the declaration described above is in conformity with the relevant statutory requirement Radio Equipment Regulations 2017, The Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, The Ecodesign for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2012.
	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.



STEELPARK ROAD, COOMBSWOOD BUSINESS PARK WEST, HALESOWEN, B62 8HD. UK
FOR THE LATEST INFORMATION PLEASE VISIT WWW.LANEY.CO.UK

IN THE INTEREST OF CONTINUED DEVELOPMENT, LANEY RESERVES THE RIGHT TO AMEND PRODUCT SPECIFICATION WITHOUT PRIOR NOTIFICATION.

V1.1

