

LFE12

Owner's Manual





PRODUCT REGISTRATION

Please complete the product registration form for your Barefoot Sound studio monitors to be registered for warranty and product updates.

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LFE12

Owner's Manual

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LFE12 Description

The Barefoot Sound LFE12 is a professional 12-inch Dual-Force™ subwoofer designed to extend the low-frequency performance of Footprint® Series monitoring systems with accuracy, power, and control. Engineered for stereo, multichannel, and immersive studio applications, the LFE12 provides the depth and headroom required for critical recording, mixing, mastering, composing, and playback.

At the core of the LFE12 is Barefoot Sound's signature Dual-Force™ technology. Two opposing 12-inch aluminum-cone woofers with neodymium motor structures operate in phase while their mechanical forces act in opposite directions. This force-cancelling arrangement significantly reduces cabinet movement and unwanted vibration, creating a stable platform for clean, precise low-frequency reproduction. The result is deep bass extension with excellent transient response, definition, and control.

Powered by 1400 watts of amplification, the LFE12 extends low-frequency response down to 17 Hz and integrates seamlessly with Barefoot Sound Footprint® monitors, including the Footprint®01, Footprint®02, Footprint®03, and Footprint®03C.

For multichannel and immersive monitoring systems, the dedicated LFE input allows the LFE12 to serve as the low-frequency effects channel in 5.1, 7.1, Dolby Atmos, and other surround configurations. Selectable 80 Hz and 120 Hz low-pass filter settings, a 0 dB / +10 dB gain switch, and stepped input-level adjustment provide precise system matching and setup flexibility.

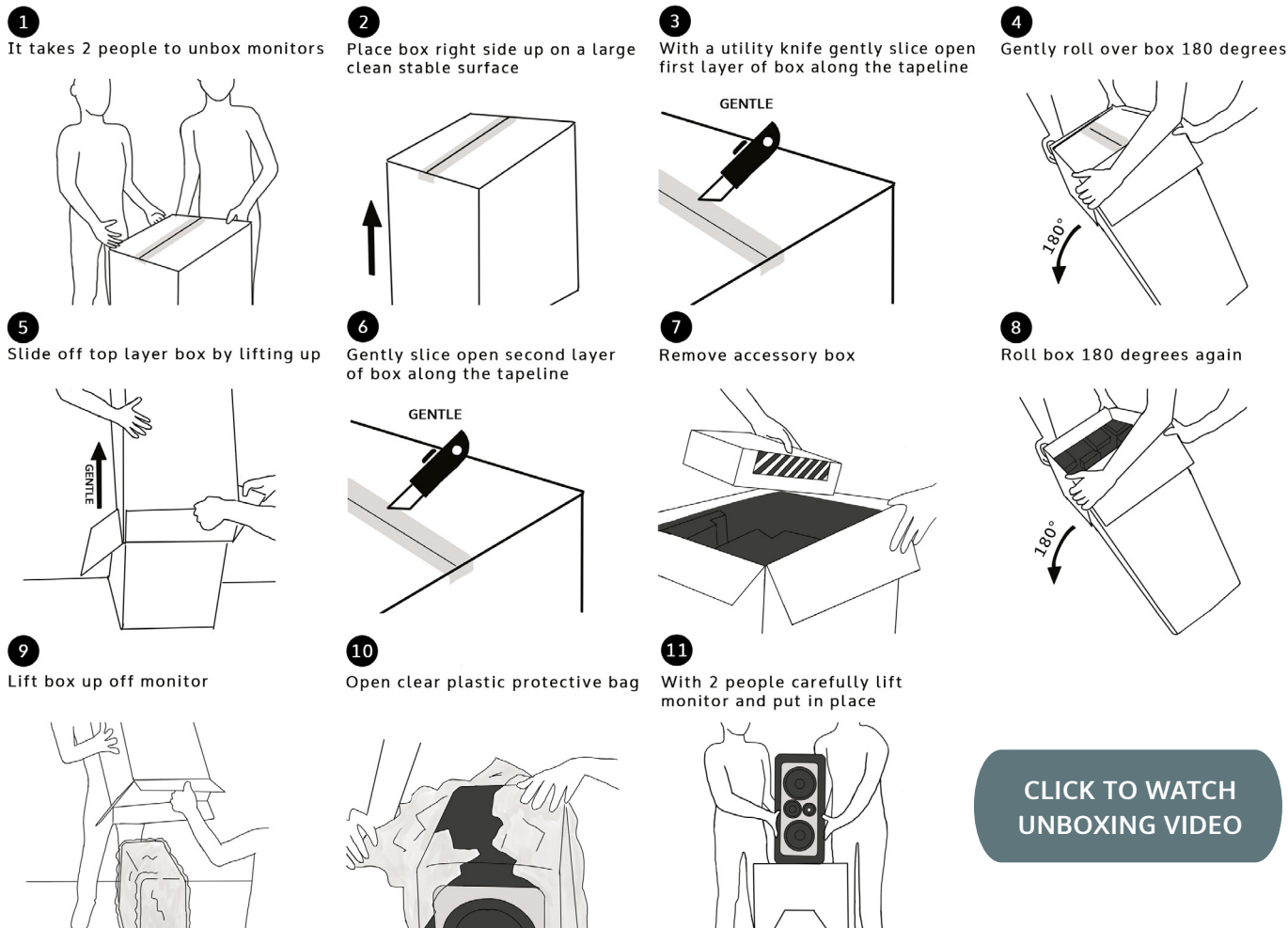
For stereo applications, dual BOOST inputs with full-bandwidth THRU outputs allow the LFE12 to extend the low-frequency capability of Footprint monitoring systems. Selectable 60 Hz and 80 Hz BOOST filter settings provide additional flexibility for different monitoring configurations.

A dual-switch foot controller provides independent muting of the LFE and BOOST inputs for fast, hands-free comparison and monitoring control. Balanced XLR connectivity and a USB-C factory calibration and service port complete the LFE12's integration features.

Designed as a purpose-built extension of the Footprint® Series, the LFE12 delivers powerful, accurate, and controlled low-frequency performance for demanding professional monitoring environments.



Unboxing Instructions



Please read and follow the safety information below:

- Do not remove the rear amplifier panel. There is a risk of electric shock. No user serviceable parts are inside. Please refer service issues to a qualified technician.
- Do not operate this device with an ungrounded mains power cable or a mains connection that is ungrounded. This may result in personal injury.
- Do not place open flames such as lighted candles on or near this device.
- Product is not intended for use by children.
- Do not expose this device to water, rain or high humidity. Do not place objects filled with liquids, such as vases, on or near this device.
- This speaker requires adequate airflow to maintain proper cooling. Do not obstruct airflow around the LFE12 Subwoofer.
- Do not operate this device in ambient temperatures above 40°C (104°F). Over-temperature may cause device failure.

Caution! This speaker is capable of producing sound pressure levels in excess of 85dB which may cause permanent hearing damage. Always verify that input signal levels are attenuated before powering on the speaker.

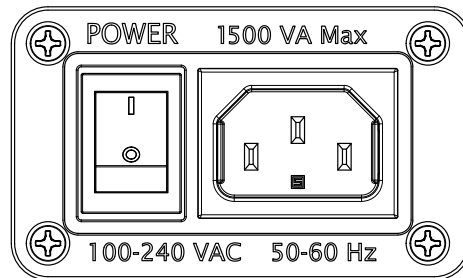
Safety information continued

Warnings

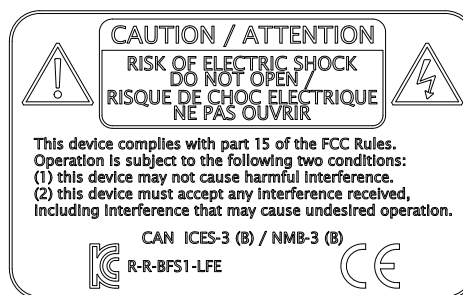
AC MAINS POWER:

The AC mains voltage must not exceed 250 VAC. Connecting the LFE12 to a power source above this rating may damage the amplifier and create a risk of fire or electric shock. Damage resulting from operation above the specified mains voltage is not covered under warranty.

REAR PANEL POWER INPUT LAYOUT



Use Grounded Power Connection Only

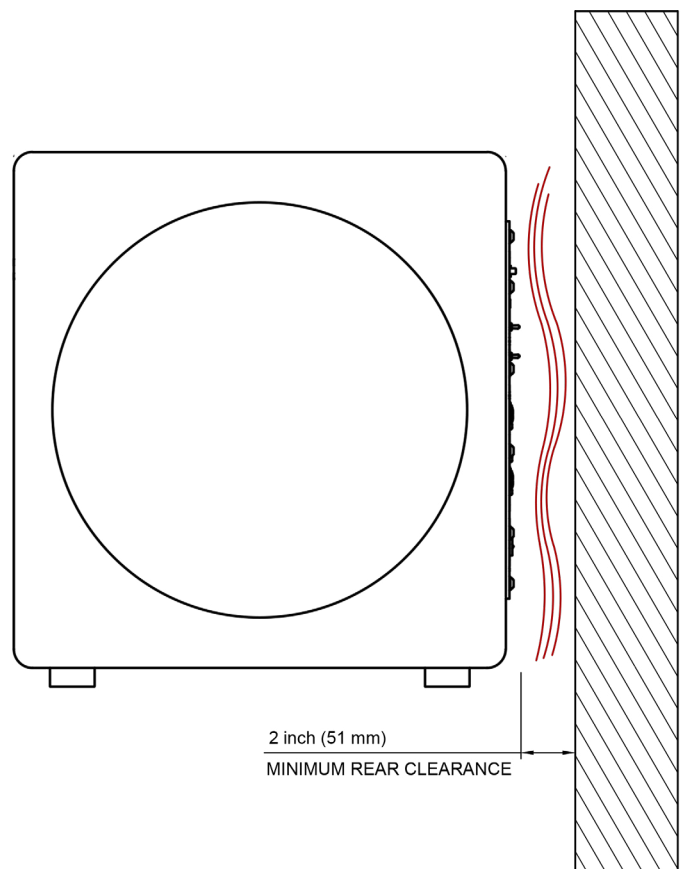


Cooling

While the amplifier module driving the LFE12 is highly efficient, it still generates heat that must be properly dissipated. Heat is transferred to the surrounding air through convection from the rear amplifier plate.

To ensure adequate airflow, maintain a minimum clearance of 2.0 inches (51 mm) between the LFE12 and walls or other large obstructions. The ambient room temperature should remain below 40°C (104°F).

Excessive temperature may cause the LFE12 to overheat and enter thermal protection or shut down.



Compatibility



Footprint®01



Footprint®02



Footprint®03

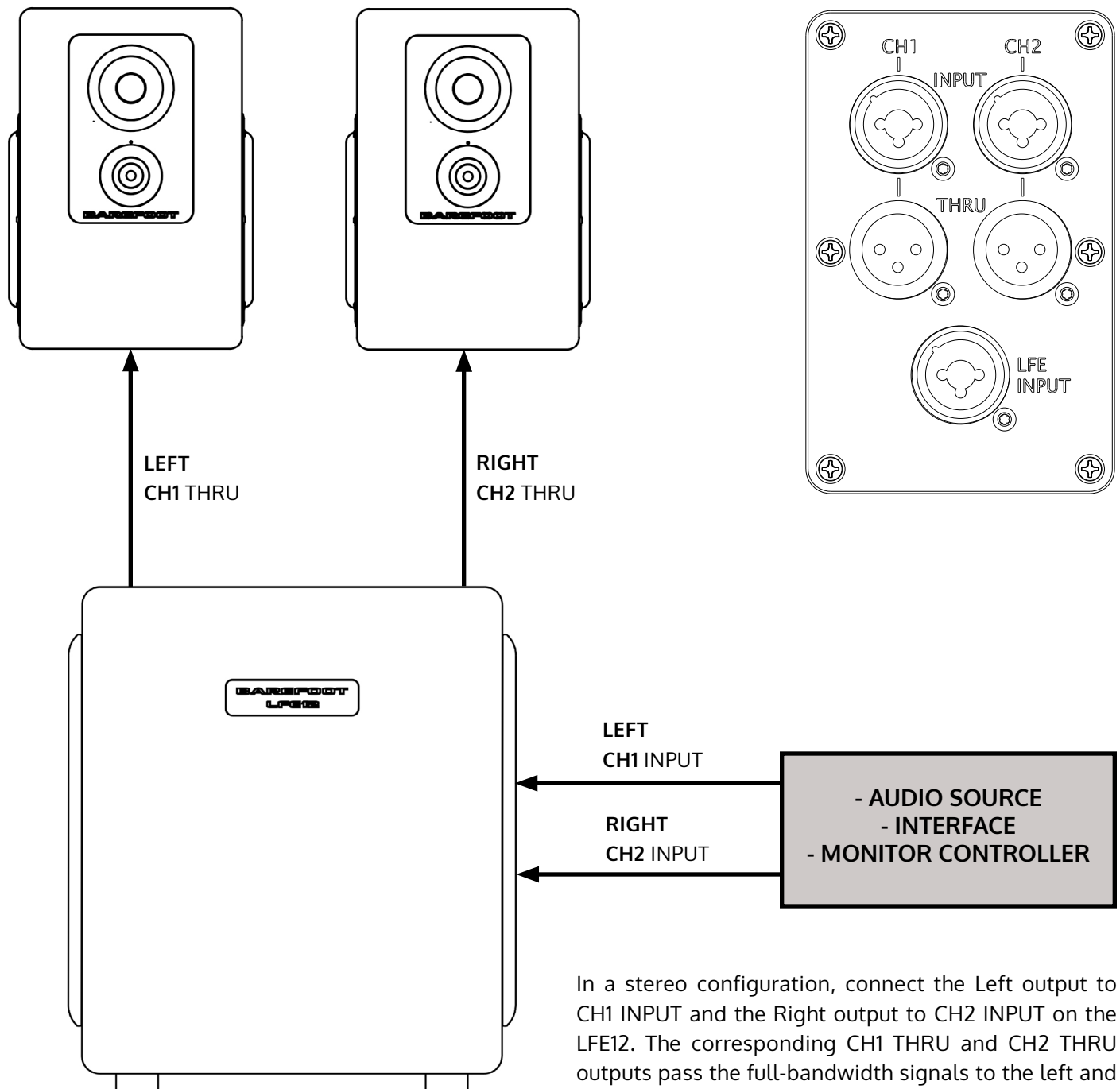


Footprint®03C



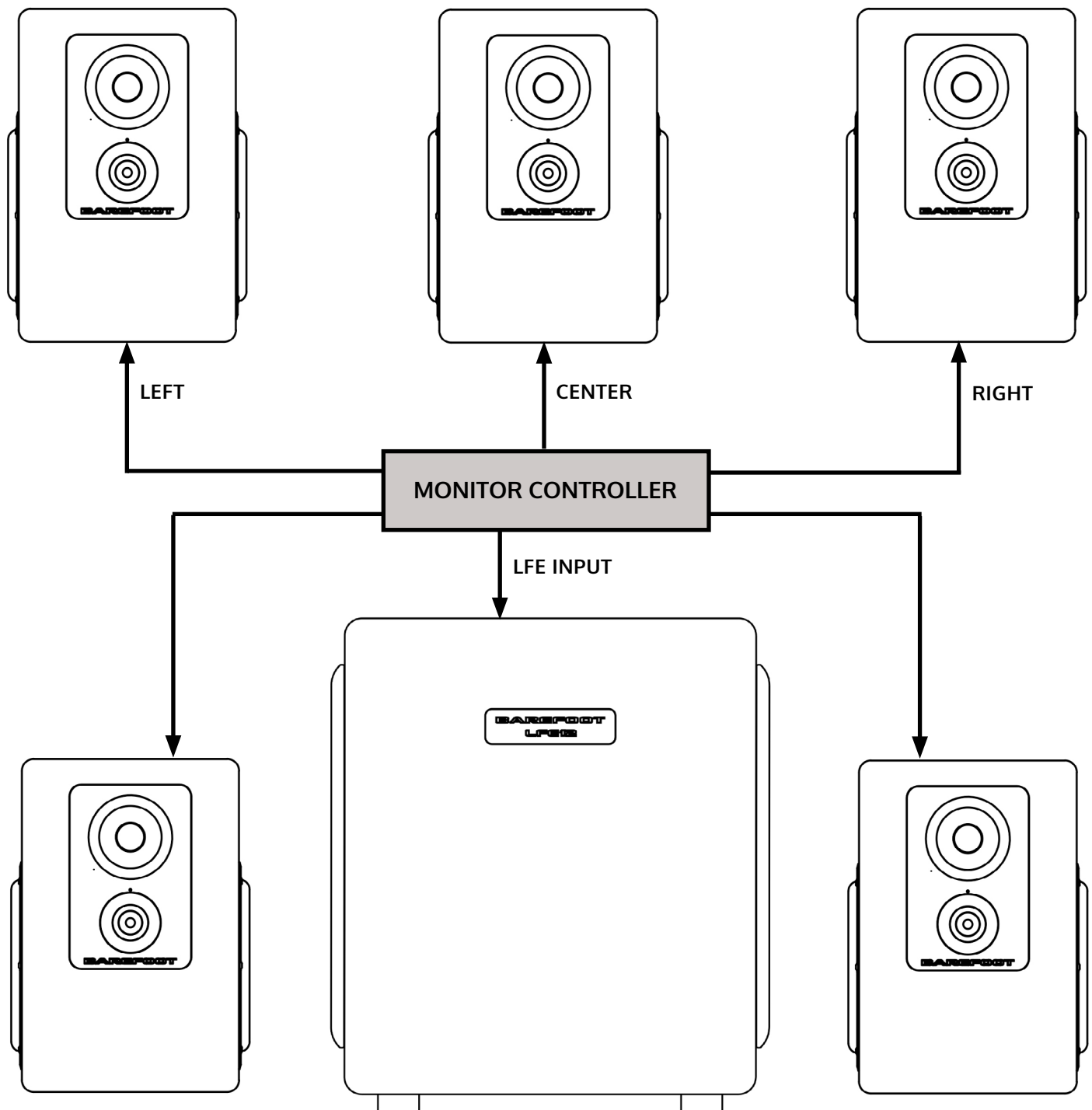
Designed to integrate seamlessly with the Barefoot Sound Footprint® Series. The LFE12 was designed specifically for professional recording studios and to integrate seamlessly with the Barefoot Sound Footprint Series, including the Footprint®01, Footprint®02, Footprint®03, and Footprint®03C.

Stereo Configuration Connection Diagram



In a stereo configuration, connect the Left output to CH1 INPUT and the Right output to CH2 INPUT on the LFE12. The corresponding CH1 THRU and CH2 THRU outputs pass the full-bandwidth signals to the left and right Barefoot monitors, respectively. This configuration allows the LFE12 to operate in BOOST mode while preserving the complete stereo signal path to the main monitors.

Multichannel Configuration Connection Diagram



For multichannel, surround, and immersive monitoring systems, connect the system's dedicated LFE output to the LFE12 LFE INPUT. This balanced XLR input is designed to receive a discrete low-frequency effects signal, allowing the LFE12 to reproduce the dedicated LFE channel independently from the main monitor channels.

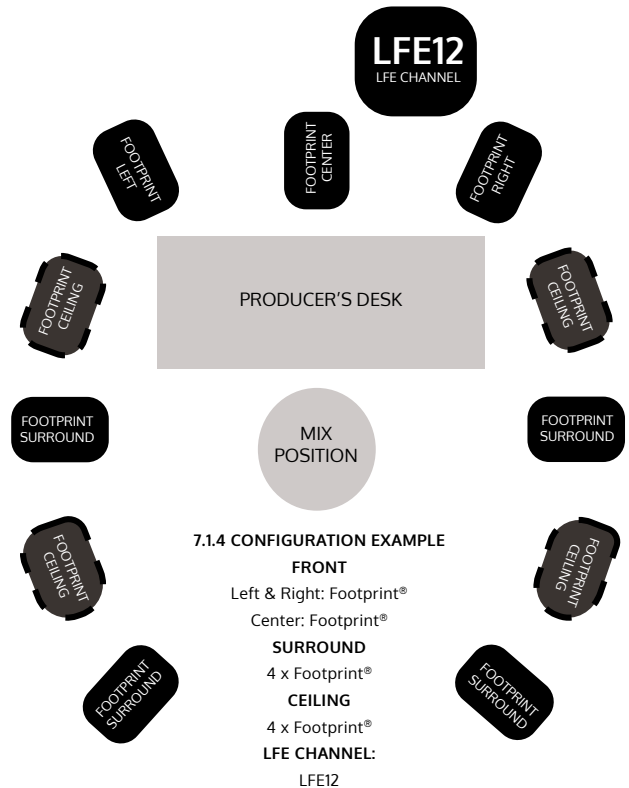
LFE12 Placement

MULTICHANNEL CONFIGURATION

In multichannel, surround, and immersive monitoring systems, the listening room has a major influence on low-frequency performance. Room dimensions, boundaries, and standing waves can create peaks and nulls that affect bass response at the primary listening position.

Proper placement and integration of the LFE12 are essential for smooth, accurate low-frequency reproduction across the system. Because every room behaves differently, experiment with LFE12 placement and listening position to achieve the most consistent response.

Avoid placing the LFE12 directly in a corner or exactly halfway between parallel walls, as these positions can exaggerate room modes. For critical professional installations, measurement-based system alignment and consultation with an experienced acoustician or system integrator are recommended.

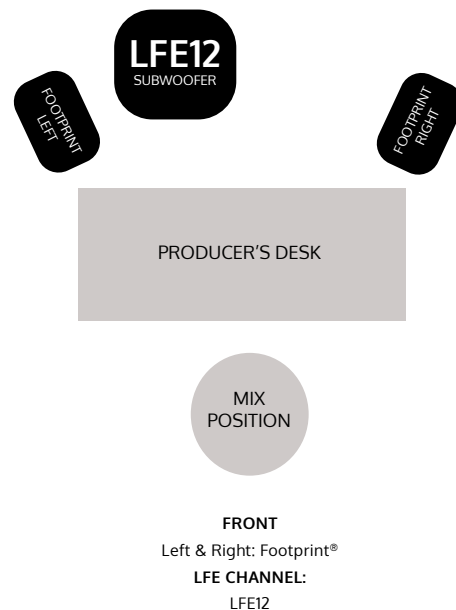


STEREO 2.1 CONFIGURATION

In a 2.1 stereo monitoring system, the LFE12 subwoofer should be integrated with the left and right Footprint Series monitors to provide smooth, accurate low-frequency extension. A good starting point is to place the LFE12 near one of the main monitors and at a similar distance from the listening position.

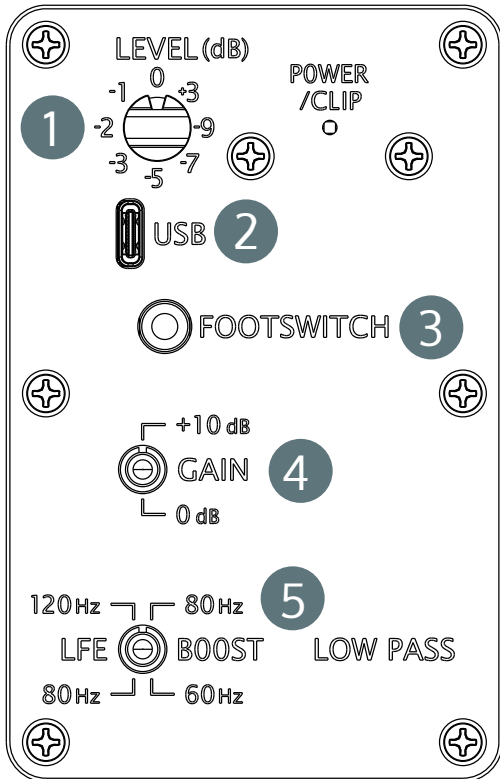
Because every room behaves differently, experiment with LFE12 placement and listening position to achieve the most consistent low-frequency response. Even small changes in position can make a noticeable difference.

For critical professional installations, measurement-based system alignment and consultation with an experienced acoustician or system integrator are recommended.



Cooling: To ensure adequate airflow, maintain a minimum clearance of 2.0 inches (51 mm) between the LFE12 and walls or other large obstructions. The ambient room temperature should remain below 40°C (104°F). Excessive temperature may cause the LFE12 to overheat and enter thermal protection or shut down.

Inputs & Controls



1. LEVEL SWITCH

The eight-position rotary switch adjusts the input level in precise, repeatable increments: +3 dB, 0 dB, -1 dB, -2 dB, -3 dB, -5 dB, -7 dB, and -9 dB.

2. USB-C [FACTORY CALIBRATION]

Factory calibration and service port. Do not use for digital audio input.

3. FOOTSWITCH INPUT

Connect the 3.5 mm TRS footswitch input cable to the footswitch controller. Press the appropriate footswitch to engage or mute the LFE or BOOST input. The dual-switch layout independently controls the LFE and BOOST inputs for fast, hands-free comparisons. Press the corresponding footswitch again to restore the input.

4. GAIN SWITCH

Selects 0 dB or +10 dB gain to accommodate different monitoring and LFE level requirements.

5. FILTER SELECT SWITCH

LOW PASS toggle for LFE mode (80 Hz, 120 Hz) and BOOST mode (60 Hz, 80 Hz)

6. CH1 / CH2 [INPUT] XLR

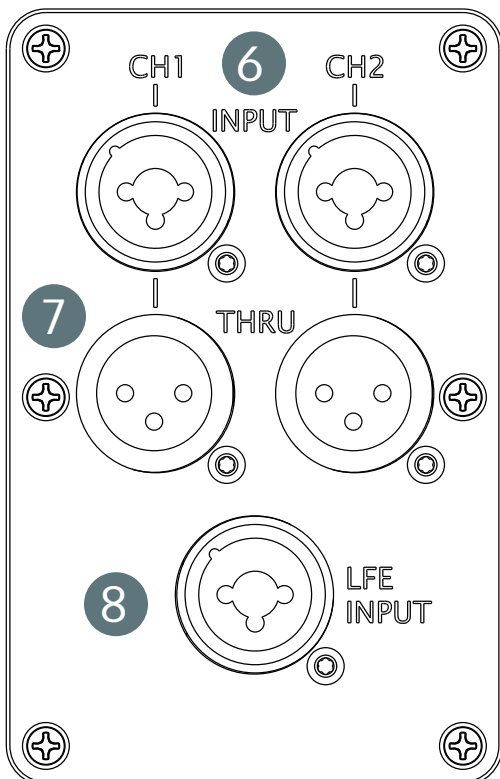
Balanced XLR inputs accept analog line-level signals from sources such as monitor controllers, audio interfaces, mixing consoles, and preamplifiers. Dual input channels with full-bandwidth THRU outputs are provided for use in BOOST mode.

7. CH1 / CH2 [THRU] XLR

Balanced XLR THRU outputs pass the full-bandwidth input signal to the corresponding Barefoot monitor.

8. LFE INPUT

Dedicated balanced XLR input for discrete LFE signals in multichannel, surround, and immersive monitoring systems.



Footswitch Function



LFE MODE

Engaging the LFE MODE switch on the footswitch activates the LFE12's dedicated LFE channel for multichannel, surround, and immersive audio monitoring. The LFE MODE low-pass filter can be set to either 80 Hz or 120 Hz using the rear-panel FILTER SELECT switch, allowing the subwoofer to reproduce low-frequency effects while filtering out higher frequencies. This provides controlled, dedicated low-frequency reproduction for accurate LFE monitoring.

BOOST MODE

Engaging the BOOST MODE switch on the footswitch activates the LFE12's low-frequency enhancement channel for stereo monitoring. The BOOST MODE low-pass filter can be set to either 60 Hz or 80 Hz using the rear-panel FILTER SELECT switch, allowing the subwoofer to extend the low-frequency response of your main monitors. This provides smooth, controlled bass integration and additional low-frequency extension for accurate stereo monitoring.

LFE + BOOST MODE

The LFE12 allows LFE and BOOST modes to operate simultaneously, providing independent low-frequency control for stereo, multichannel, surround, and immersive audio monitoring. While LFE MODE reproduces the dedicated low-frequency effects channel, BOOST MODE extends the bass response of the connected left and right stereo monitors. Both modes can be engaged or muted using the footswitch, allowing control over the LFE channel and low-frequency enhancement during monitoring.



**LFE CHANNEL ENGAGED
BOOST CHANNEL MUTED**



**LFE CHANNEL MUTED
BOOST CHANNEL ENGAGED**



**LFE CHANNEL ENGAGED
BOOST CHANNEL ENGAGED**

Dual-Force™ Technology 12" Subwoofers

Cabinet vibration is a significant source of low-frequency distortion and coloration in loudspeaker systems. As a woofer's motor assembly drives the cone forward and backward, an equal and opposite mechanical force is transferred through the driver frame into the enclosure. Because low-frequency drivers require greater cone excursion, these reaction forces can become substantial, causing enclosure movement and unwanted resonance.

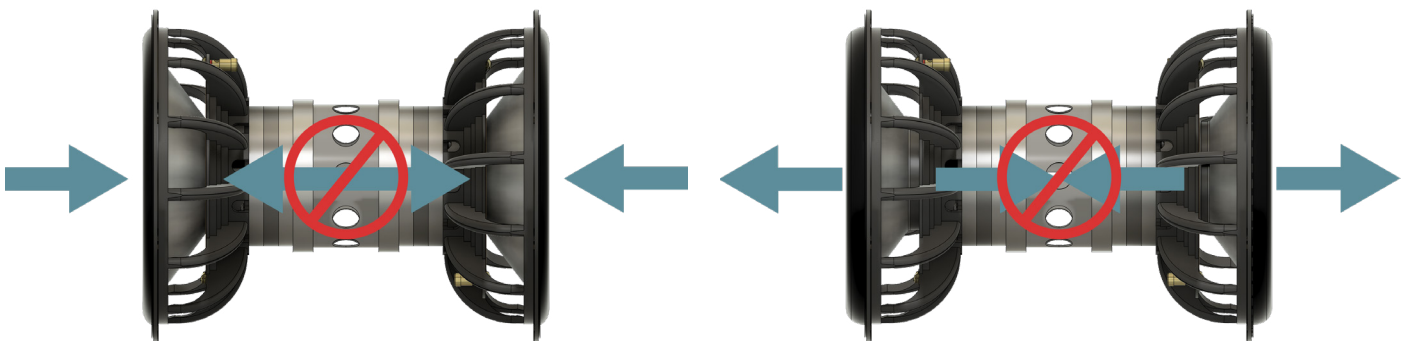
The LFE12 addresses this issue at the source through Barefoot Sound's Dual-Force™ technology. Two opposing 12-inch aluminum-cone woofers with neodymium motor structures are mounted on opposite sides of the enclosure and operate together in phase. As the drivers produce acoustic output, their mechanical reaction forces act in opposite directions and substantially cancel one another.

By reducing the mechanical energy transferred from the woofers into the enclosure, the Dual-Force™ configuration minimizes cabinet vibration before it can contribute to audible resonance or coloration. This provides a more stable acoustic platform and helps preserve low-frequency transient response, definition, and accuracy, even at high output levels.

The opposing driver arrangement also contributes to the mechanical rigidity of the LFE12 enclosure. The driver assemblies and internal structure work together with the cabinet bracing to maintain enclosure stability under the significant forces generated during high-level low-frequency reproduction.

At frequencies within the LFE12's operating range, the wavelengths being reproduced are substantially larger than the physical dimensions of the enclosure. As a result, the acoustic output from the two opposing woofers combines effectively in the listening environment while the mechanical reaction forces generated by their movement are canceled at the enclosure.

Combined with the LFE12's sealed cabinet design, rigid construction, and 1400-watt amplification system, Dual-Force™ technology enables extended low-frequency reproduction down to 17 Hz while maintaining the control, accuracy, and transient performance required for professional stereo, multi-channel, and immersive monitoring applications.



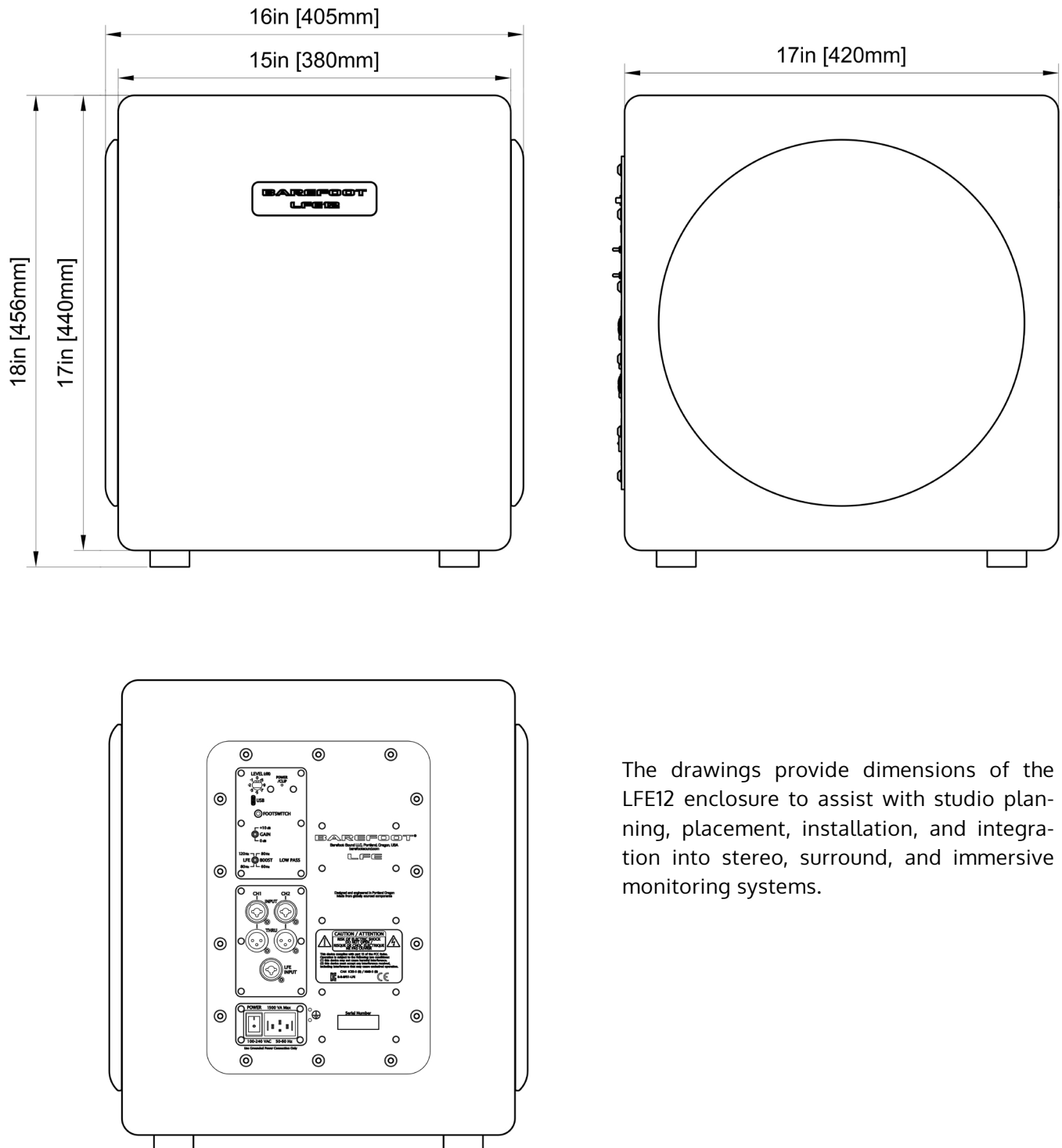
Technical Specifications

DESCRIPTION:	12" Dual-Force™ Low-Frequency Effects channel
CONTROLS:	Stepped input level, LPF frequency select, dual channel footswitch
INPUT IMPEDANCE:	Balanced XLR, 20k Ohm Impedance
SENSITIVITY:	90dB @ 1 meter with -15dBV input signal (Level control set to 0dB)
FREQUENCY RESPONSE:	17 Hz–120 Hz (+/-3 dB)
BASS RESPONSE:	-3 dB @ 17 Hz Q = 0.707 Slope = 12 dB/octave asymptotic
CABINET:	46L total internal volume with acoustic damping throughout
CABINET DESIGN:	Sealed
WOOFERS:	2 x 12" Dual-Force™ with neodymium motors
POWER AMPLIFIER:	1400W
AC POWER INPUT:	100 - 230 VAC
IDLE POWER CONSUMPTION:	30W
MAX POWER CONSUMPTION:	1500W
Unit Weight:	65 lbs (30 kg)
UNIT DIMENSIONS (HXWXD):	18" x 16" x 17" (457 mm x 406 mm x 432 mm)
SHIPPING WEIGHT:	80 lbs (36 kg)
SHIPPING DIMENSIONS (HXWXD):	23" x 21" x 23" (584 mm x 533 mm x 584 mm)
MAX PEAK SPL:	≥122 dB
THD:	≤2% @ 90 dB SPL, 1 m, f > 35 Hz

Atmos Specifications

SPEAKER WATTS (AES2 2012) PER WAY:	WFR: 764 W per channel
SENSITIVITY FREE SPACE PER WAY (W/M):	WFR: 83.2 dbSPL @ 1W/m
SENSITIVITY HALF-SPACE PER WAY (W/M):	WFR: 83.2 dbSPL @ 1W/m
SENSITIVITY FREE SPACE PER WAY 80HZ HIGH PASSED:	WFR: 83.2 dbSPL @ 1W/m
OHMS (OF EACH DRIVER PER WAY IF INDIV. DRIVEN): WFR:	8Ω
Horizontal Coverage Angle:	360°
Vertical Coverage Angle:	360°

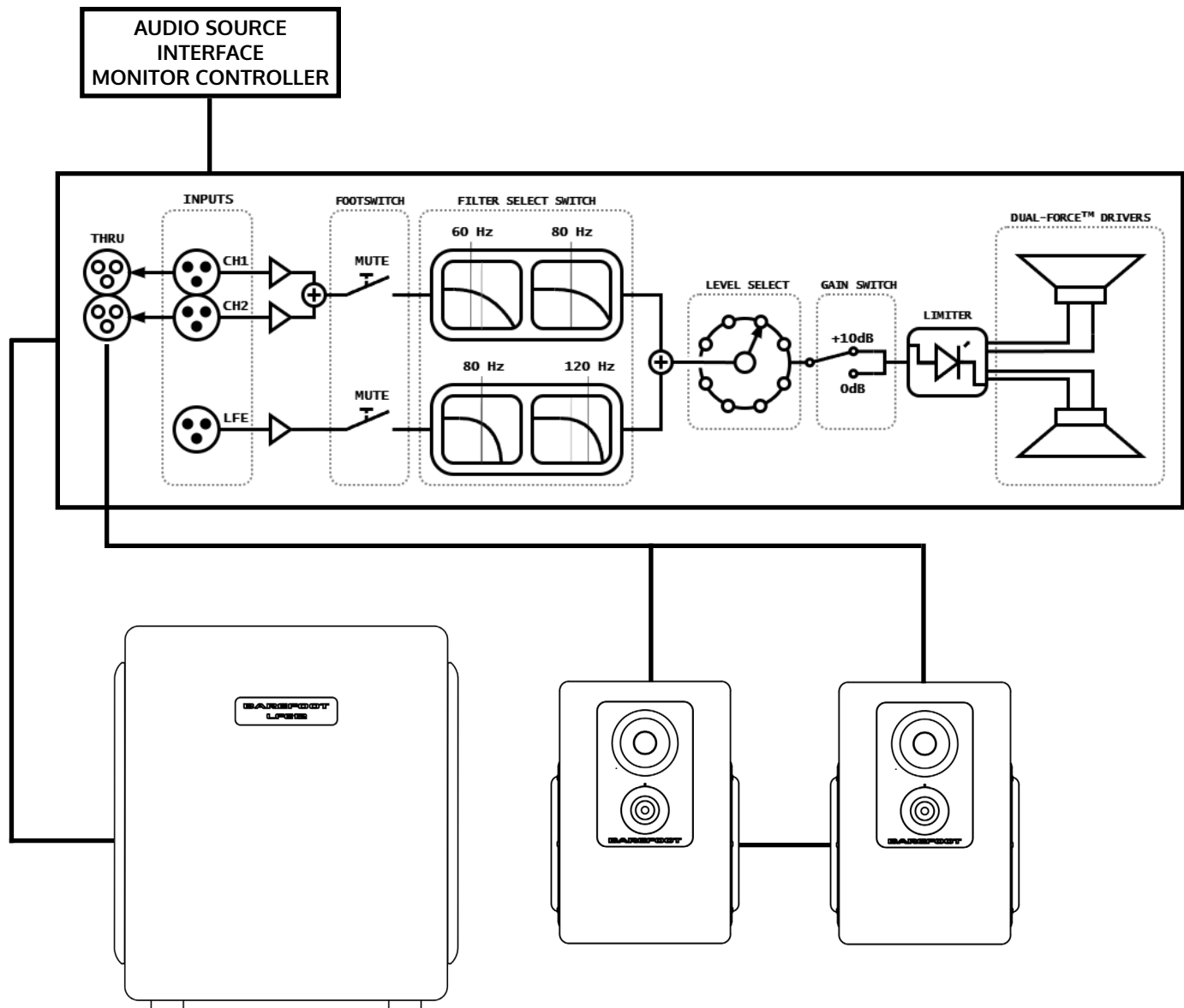
LFE12 Drawings & Dimensions



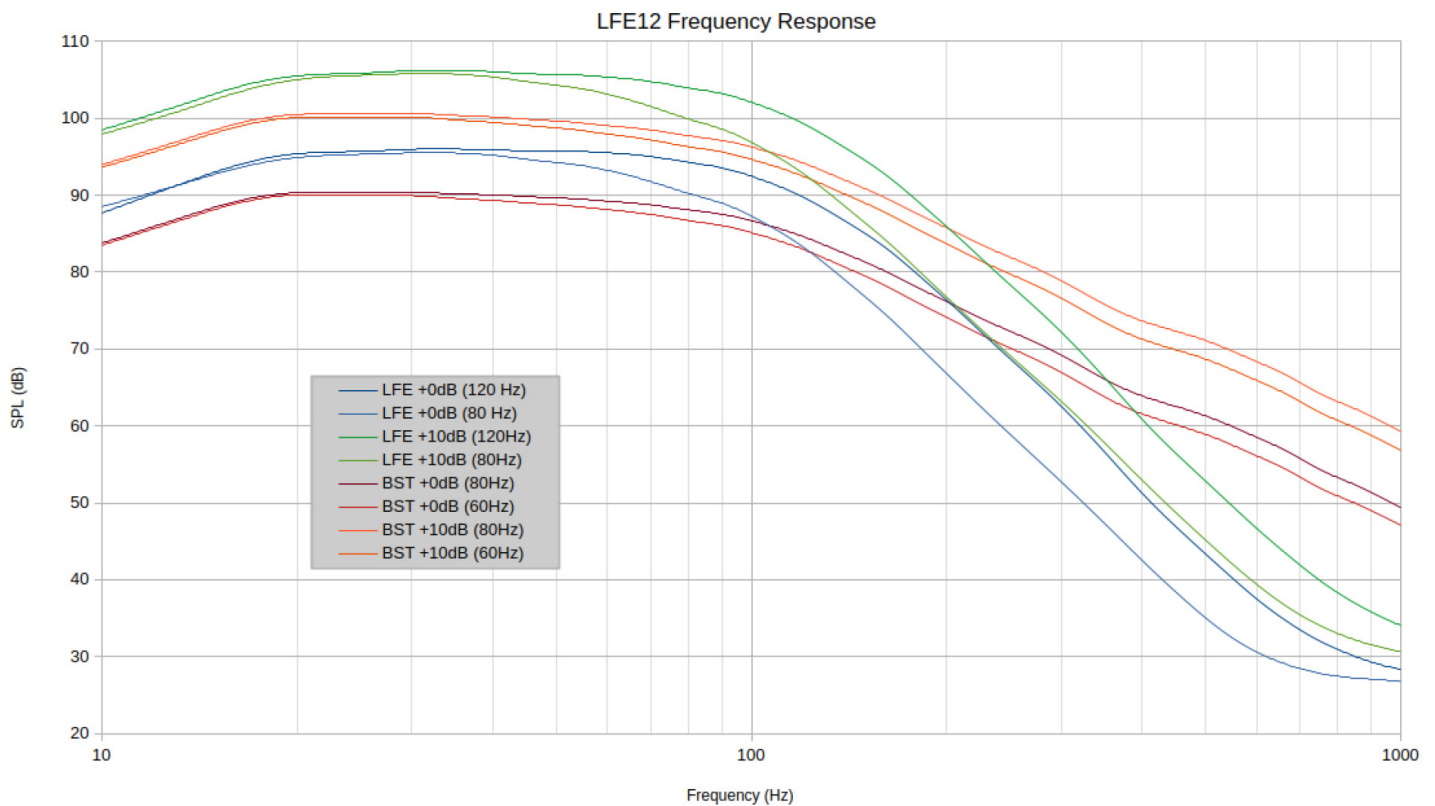
The drawings provide dimensions of the LFE12 enclosure to assist with studio planning, placement, installation, and integration into stereo, surround, and immersive monitoring systems.

Signal Flow Diagram

The LFE12 signal flow diagram illustrates how audio is routed through the subwoofer from the input stage to the Dual-Force™ drivers. BOOST and LFE signals pass through their respective mute and filter sections, then through level and gain controls before reaching the limiter and amplifier stage. The diagram also shows the full-bandwidth THRU outputs used to pass signal onward to the main Footprint Series monitors.



LFE12 Frequency Response



The LFE12 delivers extended low-frequency response with smooth, controlled roll-off across its selectable operating modes. LFE filtering is available at 80 Hz or 120 Hz, while BOOST mode provides 60 Hz or 80 Hz filtering for flexible integration with full-range monitors. Each mode can also be operated at 0 dB or +10 dB gain, allowing the LFE12 to be matched to the full range of Barefoot Sound Footprint Series stereo and multichannel monitoring systems.

Limited Warranty

BAREFOOT SOUND warrants electronic components and cabinetry for a period of three (3) years against manufacturing defects, covering parts and labor for necessary repairs. Moving speaker components such as tweeters, midranges and woofers are warranted for a period of one (1) year against manufacturing defects.

Shipping fees incurred from returns for under-warranty service in the first 30-days will be paid by BAREFOOT SOUND. All shipping fees both to and from BAREFOOT SOUND following this 30-day period must be paid by the customer. All returns, both during and following the 30-day period, must be affected via the Procedures for Obtaining Warranty Service described below.

BAREFOOT SOUND makes no other warranty, either express or implied, including but not limited to implied warranties of merchantability, fitness for a particular purpose, or conformity to any representation or description, with respect to this product other than as set forth below. BAREFOOT SOUND

makes no warranty or representation, either express or implied, with respect to any other manufacturer's product or documentation, its quality, performance, merchantability, fitness for a particular purpose, or conformity to any representation or description.

Except as provided below, BAREFOOT SOUND is not liable for any loss, cost, expense, inconvenience or damage that may result from use or inability to use the product. Under no circumstances shall BAREFOOT SOUND be liable for any loss, cost, expense, inconvenience or damage exceeding the purchase price of the product.

The warranty and remedies set forth below are exclusive and in lieu of all others, oral or written, expressed or implied. No reseller, agent or employee is authorized to make any modification, extension or addition to this warranty.

Warranty Conditions

The above Limited Warranty is subject to the following conditions:

This warranty covers only normal use of the product. BAREFOOT SOUND shall not be liable under this warranty if any damage or defect results from (i) misuse, abuse, neglect, improper shipping or installation; (ii) disasters such as fire, flood, lightning or improper electric current; or (iii) repairs, service or alteration by anyone other than an authorized BAREFOOT SOUND representative; (iv) damages incurred through incorrect connection or handling, abnormal conditions, high humidity, deliberate abuse, power surges, water spills, or any other accidents.

You must retain your bill of sale or other proof of purchase to receive warranty service.

No warranty extension will be granted for any replacement part(s) furnished to the purchaser in fulfillment of this warranty.

To return a defective product, please contact our Customer Service Department at www.barefootsound.com/service-request/ for a Return Merchandise Authorization (RMA) number and follow the Return of Products Instructions below. Returns will not be accepted without an RMA.

Procedures for Obtaining Warranty Service

RMA (Returning Merchandise Authorization) Policy:

If repairs are required, the customer must obtain a RMA number and provide proof of purchase. RMA and services are rendered by BAREFOOT SOUND only. Any shipping costs after 30 days (starting from the original date of purchase) on any item returned for repair is the customers' responsibility. All returned parts must have a RMA number written clearly on the outside of the package along with a letter detailing the problems and a copy of the original proof of purchase. No COD packages will be accepted. No package will be accepted without a RMA number written on the outside of the package.

1. If the product must be repaired, a RMA number (Return Merchandise Authorization Number) will be issued for shipment to our repair department. Please follow the instructions given by BAREFOOT SOUND technical support staff to ship your product. BAREFOOT SOUND will not accept any shipments without a RMA number.
2. Pack the product in its original box or a well-protected box, as outlined by BAREFOOT SOUND Customer Service. BAREFOOT SOUND will not be responsible for shipping damage/loss of any product not shipped in its original packaging. BAREFOOT

SOUND will not be responsible for shipping damage/loss of any product outside the original 30-day paid service period. It is very important that you write the RMA number clearly on the outside of the package. Ship the product with a copy of your bill of sale or other proof of purchase, your name, address, phone number, email address, description of the problem(s), and the RMA number you have obtained to the address provided to you by BAREFOOT SOUND Customer Service.

3. Upon receiving the product, BAREFOOT SOUND will repair or replace your product (at BAREFOOT SOUND's discretion) and will ship it back to you within a timely manner (dependent on parts availability) via FedEx.

4. BAREFOOT SOUND will pay for shipping to and from the customer only within the first thirty days following the original product ship date. Following this 30-day period all shipping fees both for under warranty and post warranty repairs are the sole responsibility of the customer. The customer also assumes full liability for losses or damages resulting from shipping as well as all responsibility to pursue remuneration for such issues with their selected carrier.

Warranty Exclusions

BAREFOOT SOUND accepts no liability for problems caused by after-market software or hardware modifications or additions. BAREFOOT SOUND is not responsible for any loss of work ("down time") caused by a product requiring service. This warranty is null and void if the defect or malfunction was due to damage resulting from operation not within manufacturer specifications. It will also be null and void if there are indications of misuse and/or abuse. BAREFOOT SOUND has the option of voiding the warranty if anyone other than an BAREFOOT SOUND technician attempts to service the product. BARE-

FOOT SOUND will not warrant any problems arising from an act of God (lighting, flooding, tornado, etc.), electrical spikes or surges, or problems arising out of hardware, software, or additional devices added to complement any product manufactured by BAREFOOT SOUND. Under no circumstances will BAREFOOT SOUND be responsible for any refund or remuneration exceeding the original purchase price of the product less any shipping fees. BAREFOOT SOUND will not be held responsible for typographical errors on sales receipts, repair tickets, or on our website. BAREFOOT SOUND makes every effort to make sure all information on our website is correct.

Maintenance

Exterior surfaces of this product may be cleaned using a non-abrasive lint-free cloth lightly dampened with water. Disconnect the mains power cable when cleaning to avoid risk of electric shock. Do not use alcohol-based cleaners.

Driver active surfaces such as diaphragms and surrounds may be cleaned using dry soft bristle brushes. Driver diaphragms are very delicate and easily damaged. So, proceed with great care. Clean new sable artist brushes or cosmetic brushes work

well for this task. Gently brush dust away from the surface starting at the center of the driver diaphragm and moving radially outward. Avoid applying inward pressure to the driver diaphragm.

Repairs, maintenance, or other servicing of this product when its interior compartment is exposed should only be performed under specific advice from Barefoot Sound by a qualified technician or by the Barefoot Service Center. There are no user-serviceable parts inside this product.

Technical Support and Service

Your Barefoot authorized dealer/distributor is usually the best resource for technical support regarding your specific application. You can also contact Barefoot Sound directly: www.barefootsound.com/service-request/

[CLICK HERE FOR SERVICE](http://www.barefootsound.com/service-request/)

BAREFOOT

Barefoot Sound LLC

barefootsound.com