

Version 2

November 2006

L-ACOUSTICS P SERIES

I08P, I12P, SB15P

OPERATOR MANUAL



IMPORTANT SAFETY INSTRUCTIONS



The Lightning Flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating in the literature accompanying the product.



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT REMOVE THE BACK COVER AND DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. NO USER-SERVICEABLE PARTS INSIDE – REFER SERVICING TO QUALIFIED PERSONNEL.

1. Read these instructions. All safety and operating instructions should be read before operating this product
2. Keep these instructions. Safety and operating instructions should be kept for future reference.
3. Heed all warnings. All warnings in these operating instructions should be followed.
4. Follow all instructions. All operating and other instructions should be followed.
5. Do not place water, hot or cold drinks on top of this product as it may cause a shock hazard. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other devices (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the grounding-type plug. A grounding type plug has two blades and a third grounding prong. The 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 the connection plugs, convenience receptacles and the point where they exit from this product.
11. Only use attachments / accessories specified by the manufacturer or sold with the equipment.



12. Use only with the 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. 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 if the apparatus has been damaged in any way, if the power-supply cord or plug is damaged, if liquid has been spilled or objects have fallen into the apparatus, if the apparatus has been exposed to rain or moisture, if the apparatus has been dropped, or if the apparatus does not operate normally.
15. Since the mains power supply cord attachment plug is used as disconnect device, the plug should always be easily accessible.
16. Fire ignition sources such as candles should not be placed on the product or in close proximity to the product.

- Operating temperature: 0°C to 35°C
- Operating mains voltage: 95VAC-125VAC (@115V voltage selector position), 195VAC-250VAC (@230V voltage selector position)



Before applying AC power, ensure that the voltage selector is correctly set for the mains power source (115 V or 230 V) and that the fuse has the appropriate rating.

FOREWORD

Thank you for purchasing the I08P, I12P or SB15P self-powered loudspeaker system.

This manual is intended to provide you with the information you require to effectively install and operate your P series loudspeaker in a variety of professional sound reinforcement applications.

We are confident that the information provided in this manual will be sufficient for most applications, however, should you require further assistance your distributor or L-ACOUSTICS® are available to provide additional technical support.

MANUAL ORGANIZATION

- ◆ The Introduction gives a brief presentation of coaxial technology and the P series.
- ◆ Chapter 1 introduces I08P , I12P and SB15P loudspeakers plus accessories
- ◆ Chapter 2 describes cabling and connections
- ◆ Chapter 3 discusses P Series applications
- ◆ Chapter 4 details I08P, I12P and SB15P installation procedures
- ◆ Chapter 5 outlines P Series loudspeaker operation
- ◆ Chapter 6 provides I08P, I12P and SB15P specifications

TABLE OF CONTENTS

IMPORTANT SAFETY INSTRUCTIONS	1
FOREWORD	3
MANUAL ORGANIZATION	3
TABLE OF CONTENTS	4
TABLE OF CONTENTS	4
LIST OF FIGURES	5
1. THE P SERIES	6
1.1 OVERVIEW.....	9
1.2 108P, 112P SERIES PRESETS.....	12
1.3 SB15P PRESETS.....	13
1.4 108P DESCRIPTION.....	14
1.5 112P DESCRIPTION.....	15
1.6 SB15P DESCRIPTION	16
2. CONNECTORS and CABLES	18
3. APPLICATIONS	20
3.1 AIMING P SERIES ENCLOSURES.....	20
3.2 DISTRIBUTED SOUND REINFORCEMENT.....	21
3.3 108P NEARFIELD MONITORING.....	22
3.4 FLOOR MONITORING	22
4. INSTALLATION PROCEDURES	23
4.1 ETR8-2 U-BRACKET ATTACHMENT	23
4.2 ETR112XT U-BRACKET ATTACHMENT	24
4.3 XTLIFTBAR ATTACHMENT	25
4.4 ETR15P U-BRACKET ATTACHMENT.....	26
4.5 SAFETY RULES.....	27
5. P SERIES LOUDSPEAKER OPERATION	28
6. SPECIFICATIONS	29
6.1 108P SPECIFICATIONS.....	29
6.2 112P SPECIFICATIONS.....	32
6.3 SB15P SPECIFICATIONS	36
WARRANTY AND DISCLAIMERS	39
FACTORY SERVICE	39
APPROVALS	47

LIST OF FIGURES

Figure 1: I08P, I12P Loudspeaker Enclosures.....	6
Figure 2: SB15P self-powered subwoofer.....	7
Figure 3: P Series Rigging Components.....	8
Figure 4: I08P Enclosure.....	9
Figure 5: I12P Enclosure.....	10
Figure 6: SB15P Enclosure.....	11
Figure 7: I08P, I12P preset selector switch closeup and preset options.....	12
Figure 8: SB15P preset selector switch closeup.....	13
Figure 9: SB15P with positive polarity, I08P or I12P in X-OVER mode.....	13
Figure 10: SB15P with negative polarity, I08P or I12P in FRONT mode.....	13
Figure 11: I08P (floor monitor orientation).....	14
Figure 12: I12P (floor monitor orientation).....	15
Figure 13: SB15P (with pole-mounted I08P).....	17
Figure 14a: I08P / I12P DSP Power Amplifier Module Rear Panel.....	18
Figure 14b: SB15P DSP Power Amplifier Module Rear Panel.....	18
Figure 15: P Series mains power cables.....	18
Figure 16: Daisy-chain connection of P Series enclosures.....	19
Figure 17: Connecting unbalanced sources.....	19
Figure 18: General guidelines for aiming P Series enclosures.....	20
Figure 19: General guidelines for I08P or I12P enclosure spacing.....	21
Figure 20: ETR8-2 U-bracket installation procedure.....	23
Figure 21: ETRI12XT U-bracket installation procedure.....	25
Figure 22: XTLIFTBAR installation procedure.....	25
Figure 23: ETRI5P U-bracket installation procedure.....	26
Figure 24: I08P Line Drawing.....	30
Figure 25: I08P + ETR8-2 Line Drawing.....	31
Figure 26: I12P Line Drawing.....	32
Figure 27: I12P + ETRI12XT Line Drawing.....	34
Figure 28: I12P + XTLIFTBAR Line Drawing.....	35
Figure 29: SB15P Line Drawing.....	37
Figure 30: SB15P + ETRI5P Line Drawing.....	38

0. INTRODUCTION

The I08P and I12P combine the significant advantages of L-ACOUSTICS' proven coaxial point source technology with the convenience of self-powered performance and the power plus flexibility of on-board digital signal processing.

Designed for portable applications, the I08P and I12P are suitable for distributed sound reinforcement in theatre, congress centre, concert hall, trade show, corporate A/V, houses of worship, club, or television applications. When used with the L-ACOUSTICS SB15P self-powered subwoofer, the I08P and I12P can also be used for side fill, drum monitoring or small-to-medium format front-of-house (FOH) applications. In addition to these applications, the I08P is specifically optimized for use as a high-power nearfield monitor while the I12P provides a high-performance stage monitoring solution.

The L-ACOUSTICS approach to distributed sound reinforcement starts with the specification that each individual loudspeaker should behave as a coherent point source. This specification can be met using coaxial components due to the fact that the directivity of the low and high frequency (LF and HF) transducers is matched at the crossover frequency. This provides a smooth transition between LF and HF sections with power response that is free of the polar lobing effects typical of traditional horn / woofer combinations. In addition, coaxial component directivity is horizontally, vertically and diagonally symmetric (axi-symmetric), thus providing true point source behavior.

Extensive sound design and installation experience acquired by L-ACOUSTICS over the years confirms this and we are confident that coaxial, axi-symmetric loudspeaker enclosures are the best tools for multiple source, distributed sound reinforcement.

I. THE P SERIES

The L-ACOUSTICS P Series consists of: I08P and I12P self-powered loudspeaker enclosures, the SB15P self-powered subwoofer and I08P, I12P, SB15P rigging accessories.

LOUDSPEAKER ENCLOSURES

(1) I08P

Self-powered 2-way coaxial loudspeaker with 100-degree axi-symmetrical coverage, containing 8" loudspeaker, 1" exit high frequency compression driver

(2) I12P

Self-powered 2-way coaxial loudspeaker with 90-degree axi-symmetrical coverage, containing 12" loudspeaker, 1.4" exit high frequency compression driver



Figure I: I08P, I12P Loudspeaker Enclosures

1.1 OVERVIEW

L-ACOUSTICS I08P and I12P self-powered coaxial loudspeakers are intended for distributed sound reinforcement in small- to medium-sized portable applications or for use with the SB15P self-powered subwoofer for 3-way applications such as small- to medium-sized FOH or stage monitoring (drum/side fill). All P-series enclosures feature highly-advanced loudspeaker components and rigging accessories while benefiting from the sonic accuracy and flexibility afforded by application-engineered digital presets.

I08P

The I08P is a 250 x 500 watt bi-amplified, digitally-processed loudspeaker featuring a 1" exit HF compression driver coaxially-loaded by an eight-inch low frequency transducer. Coaxial loading produces coherent point source radiation with 100-degree axisymmetric directivity along with superimposed LF/HF dispersion characteristics free of the polar lobing effects associated with traditional 2-way studio monitor configurations (i.e., separate woofer/tweeter). The end result is precise, stable image localization that is ideal for stereo or surround sound monitoring.

Integral digital crossover filtering, component time alignment and equalization provide superb sonic performance plus added flexibility due to the availability of four application-engineered presets (FILL, FRONT, MONITOR, X-OVER).

Accurate frequency response and imaging combined with elevated SPL output capacity make the I08P ideal for use as a high performance nearfield monitor for live FOH mix engineering and for stereo or 5.1 monitoring in studio, broadcast or post production environments. For nearfield monitoring applications, either FILL (free space conditions, for example, when the I08P is placed on a console bridge) or MONITOR (half space conditions, for example, when the I08P is wall- or soffit-mounted) presets should be selected.

Due to its' high power:size ratio, plug-and-play ease-of-use, versatile application-oriented presets and multi-purpose enclosure format, the I08P is also suitable for a wide variety of portable sound reinforcement applications. For proximity reinforcement such as distributed front fill, the I08P provides optimum fidelity and intelligibility, satisfying the strict requirements of classical music and opera. The compact, truncated wedge-shaped enclosure format provides a visually-discrete solution for floor monitoring, keyboard monitoring or underbalcony use and with the addition of L-ACOUSTICS subwoofers, the I08P is also suitable for small format FOH applications.

In addition to proximity fill and monitoring, the I08P can be used for portable distributed sound reinforcement in theatre, trade show, concert hall, houses of worship, congress centre, club, restaurant, retail, corporate boardroom or television applications. To facilitate installation, a pole mount socket is included as standard and an adjustable U-bracket is available as an optional rigging accessory for ceiling, wall, scaffold or truss mounting.



Figure 4: I08P Enclosure

1.2 108P, 112P SERIES PRESETS

Four application-engineered presets are selectable via rear panel push button switch:

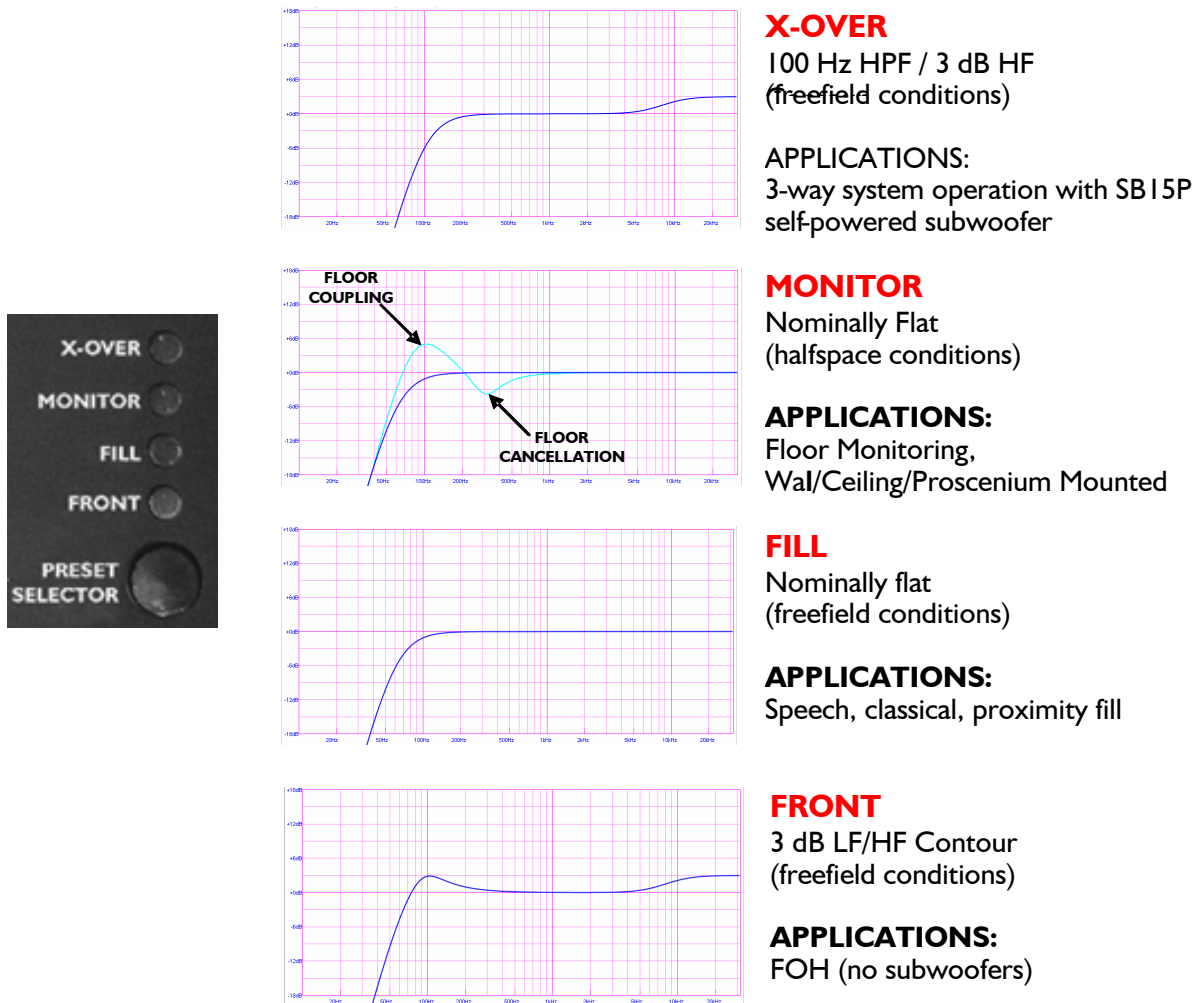


Figure 7: 108P, 112P preset selector switch closeup and preset options

Note: To memorize a preset (so that it is automatically recalled when cycling the mains power on/off), select the desired preset and hold the preset selector button until the led display is blinking.

FRONT presets are for standalone FOH operation (without subwoofers) where low and high frequency shelving equalization provide a frequency response contour suitable for music applications.

FILL presets provide nominally flat response for nearfield monitoring, speech reinforcement and classical music applications or, in general, when P Series enclosures are used as a close proximity fill enclosure.

FRONT and FILL presets are derived under freefield measurement conditions

MONITOR presets include additional low frequency equalization to account for half-space loading conditions and are intended for floor monitoring applications or installations where P Series loudspeakers are wall- or ceiling-mounted.

MONITOR presets are nominally flat under half-space measurement conditions

XOVER presets apply a 100 Hz highpass filter and a 3 dB high frequency shelving equalization contour for use of the 108P or 112P with the L-ACOUSTICS SB15P self-powered subwoofer.

1.4 I08P DESCRIPTION

The I08P is a self-powered, bi-amplified, two-way coaxial full range loudspeaker containing one direct radiating, bass reflex-loaded, weather-resistant 8-inch low frequency transducer and one 25 mm (1.0 inch) exit, 44 mm (1.7 inch) voice coil diameter, polyester diaphragm, compression driver. The cone body of the 8-inch low frequency component provides pattern control loading for the compression driver and yields a 100-degree conical directivity pattern that is axi-symmetric. As a full range system, frequency response is 65 Hz to 20 kHz with less than +/- 3 dB variation and the usable bandwidth is 50 Hz to 22 kHz (-10 dB).

The I08P contains internal digital signal processing electronics and a two-channel power amplifier. The power amplifier provides 500 W continuous (1 kHz, 0.5% THD) into 4 ohms and 250 W continuous (1 kHz, 0.5% THD) into 8 ohms for powering low and high frequency transducers, respectively. The power amplifier provides thermal protection, short-circuit/overload output protection, clip and RMS signal limiting. Digital processing electronics also provides corrective component and system equalization, component time alignment and crossover filtering.

Four presets are selectable via rear-panel push button switch with the following characteristics: FILL has nominally flat frequency response when the loudspeaker is used under freefield conditions; FRONT has +3 dB low and high frequency shelving characteristics under freefield conditions; MONITOR has nominally flat response under half-space loading conditions; X-OVER provides a 100 Hz high pass filter and +3 dB high frequency shelving characteristics for use of the I08P with the L-ACOUSTICS SB15P self-powered subwoofer. Connection to the I08P is made via two parallel XLR connectors and gain is controllable via rear panel volume potentiometer. AC power connectors are PowerCon type and 115V or 230V operation is selectable via rear panel rotary switch.

The I08P has a truncated wedge shape with a curved front profile. Dimensions are 42.1 cm (16.6 in) high, 25.0 cm (9.8 in) wide by 29.9 cm (11.8 in) deep. When used as a floor monitor, the front baffle of the enclosure is oriented at 30° with respect to vertical. Enclosure weight is 12.8 kg (28.2 lbs) and cabinet construction consists of 15 mm (0.6 in) and 18 mm (0.7 in) Baltic birch plywood with joints that are sealed, screwed and rabbeted. The finish is maroon gray, high resiliency paint and the front of the I08P is protected by a black powder-coated 1.5 mm (0.06 in) thick steel grill covered with acoustically-transparent grille cloth. The I08P has a 35 mm (1.38 in) diameter pole mount socket mounted on the bottom side and a recessed plate on the top side for rigging the enclosure in conjunction with an adjustable U-bracket assembly.



Figure 11: I08P (floor monitor orientation)

2. CONNECTORS AND CABLES

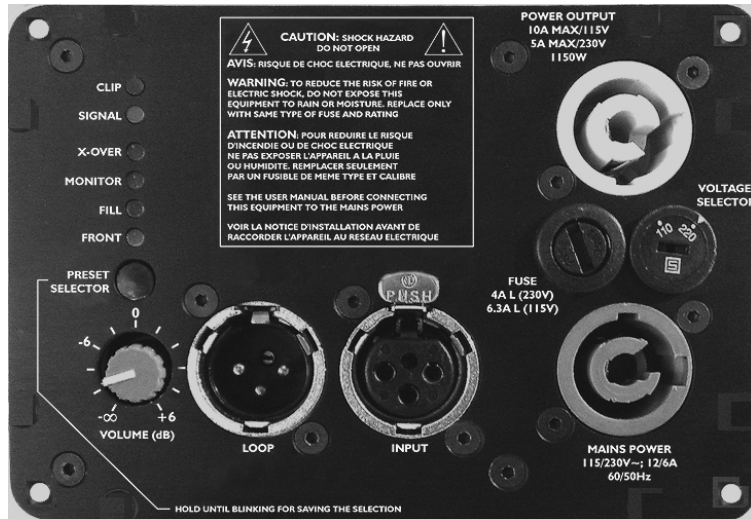


Figure 14a: I08P / I12P DSP Power Amplifier Module Rear Panel

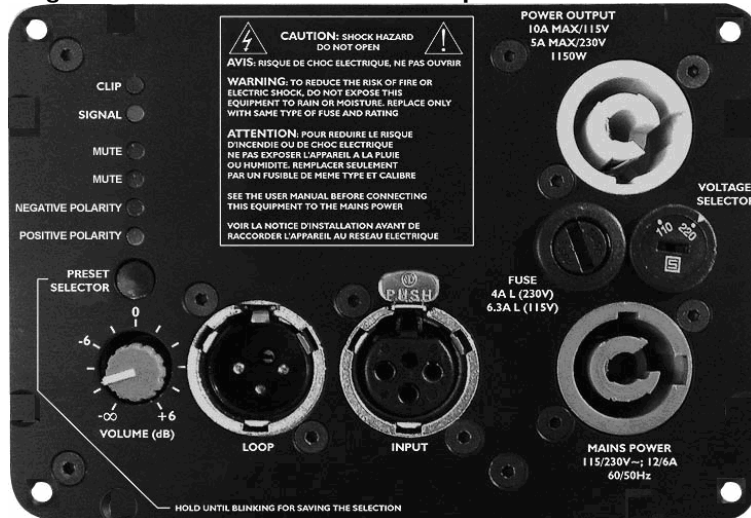


Figure 14b: SB15P DSP Power Amplifier Module Rear Panel

⚠ Before applying AC power, ensure that the voltage selector is correctly set for the mains power source (115 V or 230 V) and that the fuse has the appropriate rating.

⚠ Always use the mains power cable that was provided with your I08P, I12P or SB15P.

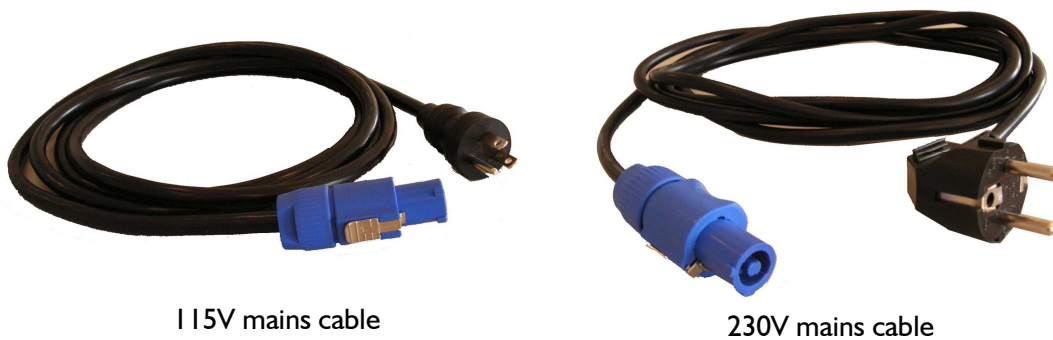


Figure 15: P Series mains power cables

⚠ Do not connect I08P, I12P or SB15P loudspeakers to an unearthed mains supply or by using an unearthed mains cable.

To daisy-chain connect mains power from a 108, 112P or SB15P loudspeaker to additional P Series enclosures (up to 3), use a cable with a grey Neutrik PowerCon NAC3FCB connector at one end (connected to the Power Output connector of the P Series enclosure that is supplying power) and a blue Neutrik PowerCon NAC3FCA connector at the other end (connected to the Power Input connector of the P Series enclosure that is being daisy-chain connected).

Note: Neutrik PowerCon connectors are color-coded:

Blue = power input = Neutrik NAC3FCA PowerCon connector

Grey = power output = Neutrik NAC3FCB PowerCon connector

⚠ Never daisy chain connect more than 3 P series enclosures using the Power Output connector.

⚠ Do not daisy-chain connect P Series enclosures using an unearthed PowerCon NAC3FCA to PowerCon NAC3FCAB cable.

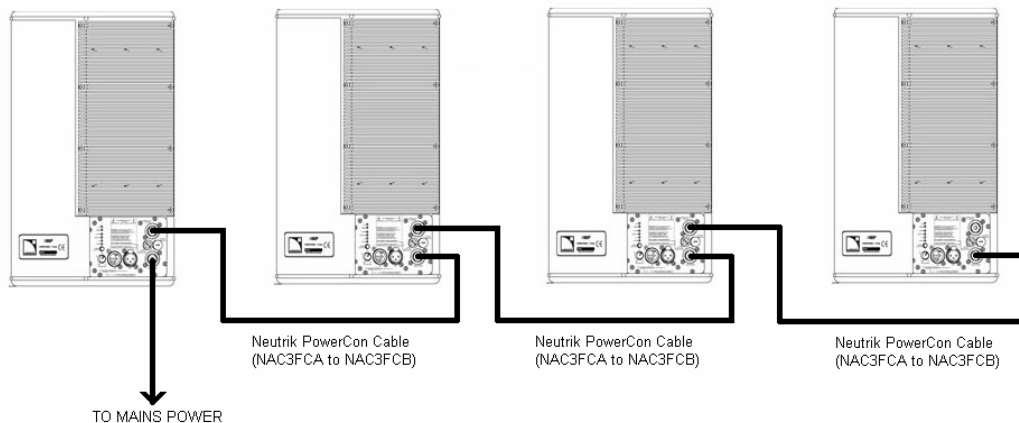


Figure 16: Daisy-chain connection of P Series enclosures

These cables (NAC3FCA to NAC3FCB) must handle at least 5A@230V or 10A@115V.

SIGNAL INPUT/LOOP THROUGH

P Series loudspeakers are supplied with dual XLR connectors that are internally wired in parallel, allowing for loop through connection and parallel operation of multiple 108P, 112P or SB15P enclosures.

XLR connectors are wired as follows:

- Pin 1 = ground
- Pin 2 = signal +ve
- Pin 3 = signal -ve

Unbalanced sources (for example, RCA or 1/4" TS phone jack connectors) can be connected to the 108P or 112P provided that pin 3 is grounded to pin 1 (see Figure 17).

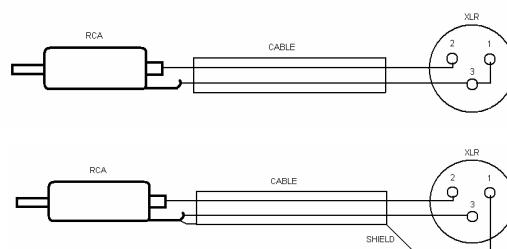


Figure 17: Connecting unbalanced sources

Note: When cabling your P Series loudspeaker for the first time, set the volume control fully counter-clockwise ($-\infty$). The input sensitivity of the 108P, 112P or SB15P can be matched to the output of the mixing console (or other program source) by using the volume control on the rear panel.

The ferrite provided with your P series loudspeaker helps improve immunity to electromagnetic fields (above 100 MHz) and should be placed on the XLR audio cable used for connecting input signal to the 108P, 112P or SB15P. Perform a cable loop near the male XLR plug when attaching the ferrite.

3. APPLICATIONS

P Series loudspeakers are intended for portable distributed sound reinforcement, nearfield monitoring (108P), floor monitoring or small- to medium-scale Front-Of-House (FOH) applications. Guidelines for the use of P Series loudspeakers in these applications are discussed in this section.

3.1 AIMING P SERIES ENCLOSURES

Due to their controlled directivity behavior, P Series enclosures should be aimed so as to geometrically cover the desired audience area with the main zero degree axis oriented towards the middle or rear of the audience area. Since the wavefront radiated by an axi-symmetric sound source has directivity that is smoothly increasing with frequency, this helps to match coverage, frequency response and SPL to the acoustic environment of a typical auditorium (i.e., normally the reverberation time in auditoria decreases smoothly above 1 kHz and at greater distances in the venue, the low frequency energy is fairly constant due to the reverberant field).

Loudspeaker focus or aiming should be adjusted so that maximum HF energy is directed towards the farthest listening areas – this helps to balance the SPL attenuation with distance that occurs in the direct field. At closer listening positions, the off-axis attenuation at higher frequencies provides a similar tonal balance and the overall SPL attenuation with distance is reduced.

Although P Series enclosures have controlled directivity attenuation properties it is important not to have the first members of the audience too close to the system (i.e., in order not to produce excessive sound pressure levels down front). Ideally, the ratio between the shortest and the furthest distance covered should not exceed 1:4 and in order to obtain this throw distance ratio, it is often desirable to fly the system. However, when P Series enclosures are flown and the audience seating area begins very close to the stage, it is often necessary to use distributed front-fill speakers (for example, 108P) or a stacked left/right 112P stereo infill system in order to improve coverage and image localization for the first few rows of the audience.

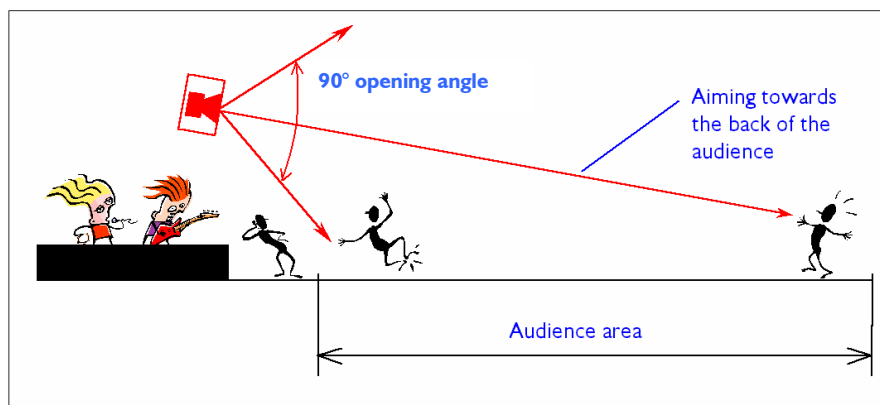


Figure 18: General guidelines for aiming P Series enclosures

3.2 DISTRIBUTED SOUND REINFORCEMENT

Distributed sound reinforcement using P Series enclosures can provide even SPL coverage and frequency response while reducing audible interference effects. For distributed installation, the optimum spacing between enclosures will depend on the coverage angle of the individual enclosure (100 degrees for I08P, 90 degrees for I12P) and the throw distance to the audience listening plane.

In general, the goal is to separate P Series enclosures so that the -6 dB coverage angle of one enclosure is aligned with the main 0 degree axis of the other enclosure (and vice versa) at the listening plane of the audience. This is termed centre-to-centre alignment and is illustrated in Figure 15.

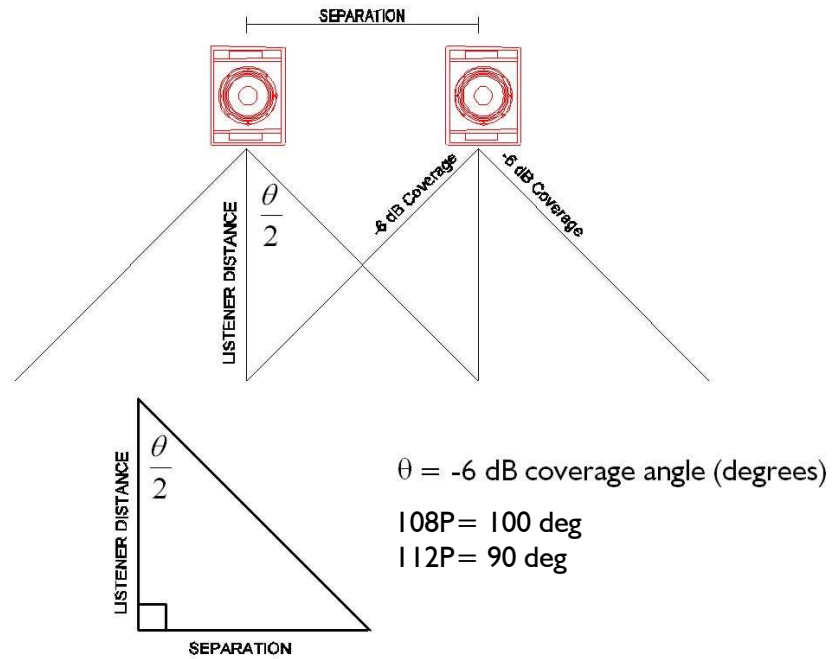


Figure 19: General guidelines for I08P or I12P enclosure spacing for distributed sound reinforcement

3.3 I08P NEARFIELD MONITORING

Accurate frequency response (due to on-board DSP) and imaging (due to the point source coaxial configuration) combined with elevated SPL output capacity make the I08P ideal for use as a high performance nearfield monitor for live FOH mix engineering and for stereo or 5.1 monitoring in studio, broadcast or post production environments.

For nearfield monitoring, either FILL (free space conditions, for example, when the I08P is placed on a console bridge) or MONITOR (half space conditions, for example, when the I08P is wall- or soffit-mounted) presets should be selected.

For stereo monitoring, left/right I08P separation should be approximately equal to the throw distance to the listening position. Horizontal azimuth (panning) should be adjusted so that the zero degree axes of left/right I08P monitors are oriented towards the listening position.

3.4 FLOOR MONITORING

For floor monitoring, the coaxial component configuration employed in the I12P provides a high degree of image and coverage stability. The benefits of axi-symmetric directivity are readily apparent since the performer is in close physical proximity to the enclosure and experiences a generous, homogeneous coverage pattern without the subjective impression (and potential feedback problems) of listening to a separate horn / woofer combination.

The MONITOR preset accounts for half-space loading conditions, i.e., there is a 6 dB increase around 100 Hz (due to floor coupling), followed by a broad cancellation that occurs between 200 – 600 Hz (due to floor reflections). The MONITOR preset compensates for these two half-space loading effects and provides a nominally flat frequency response curve with excellent fidelity and feedback resistance.

When using I12P enclosures in pairs for floor monitoring, the same principles apply as for distributed systems, i.e., the optimum spacing between floor monitors depends on the coverage angle of the enclosure (90 degrees for I12P) and the throw distance to the performing artist (which is determined by the 30-degree floor monitor angle with respect to vertical and the artist's height). Center-to-center overlap will provide the most uniform coverage (see Figure 19) and it is not advised to angle wedges in but to use them with the front faces parallel to each other (essentially, angling in wedges no longer provides optimum center-to-center overlap).

5. P SERIES LOUDSPEAKER OPERATION



Before applying AC power, ensure that the voltage selector is correctly set for the mains power source (115 V or 230 V) and that the fuse has the appropriate rating.

Set the rear panel volume potentiometer to the minimum setting, i.e., fully counter-clockwise ($-\infty$)

Connect a program signal source (output from a mixing console, for example) to the XLR input of the I08P or I12P. For unbalanced sources, refer to Figure 17.

Note: The LOOP connector (male XLR) can be used to daisy-chain up to six P Series enclosures.

Ensure that the program signal source (mixing console output) is muted before powering your P series loudspeaker.

Power up the I08P, I12P or SB15P by connecting the PowerCon cable that was provided with your P series loudspeaker to an appropriate mains power source.

Note: The Power Output connector (grey PowerCon receptacle on the rear panel of the P Series enclosure) can be used to daisy-chain connect up to 3 additional P Series enclosures.

Note: Neutrik PowerCon connectors are color-coded:

BLUE = power input = Neutrik NAC3FCA PowerCon connector

GREY = power output = Neutrik NAC3FCB PowerCon connector

Select the desired preset for the I08P / I12P (FILL, FRONT, MONITOR or XOVER) and/or the SB15P (POSITIVE or NEGATIVE polarity) using the rear panel "Preset Selector" switch (see Section 1.2 and 1.3 for further details concerning P Series presets).

When used with I08P or I12P enclosures in X-OVER mode, the SB15P should be operated with positive polarity.

When used with I08P or I12P enclosures in FILL, FRONT or MONITOR mode, the SB15P should be operated with negative polarity.

Note: To memorize a preset (so that it is automatically recalled after cycling the mains power on/off), select the desired preset and hold the preset selector button until the led display is blinking.

Run program signal (e.g. CD player), and slowly bring up the mixing console output level to check that gain structure is correct.

If necessary, adjust the rear panel volume potentiometer in order to obtain the desired system gain structure.

Note: Signal LED illuminates when the input signal level is greater than -40 dBV.

Note: Clip LED illuminates when the amplifier output clip point is reached.

6. SPECIFICATIONS

6.1 108P SPECIFICATIONS

ACOUSTICAL PERFORMANCE

Frequency Response

Frequency response:	65 – 20k Hz (± 3 dB)	(FILL preset)
Usable bandwidth:	55 – 22k Hz (-10 dB)	

System Sensitivity

-21 dBu (0.071 Vrms)	94 dB SPL	65 – 20k Hz	(FILL preset)
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Nominal Directivity (-6 dB)

Axi-symmetrical	100° ($\pm 15^\circ$)
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System Output

	SPL		
One enclosure	115dB (cont)	125 dB (peak)	FILL preset
	113 dB (cont)	123 dB (peak)	XOVER preset

FILL preset provides nominally flat response under freefield conditions

XOVER preset applies a 100 Hz high pass filter and a 3 dB high frequency shelving eq contour

Components

LF 1 x 8" weather resistant loudspeaker (2" voice coil)

HF 1 x 1" exit compression driver (polyester diaphragm, coaxial assembly)

ELECTRICAL PERFORMANCE

Input

Type	Electronically balanced (pin 2 hot)
Max Input Level	+12 dBu (gain potentiometer at 0 dB position)

DSP

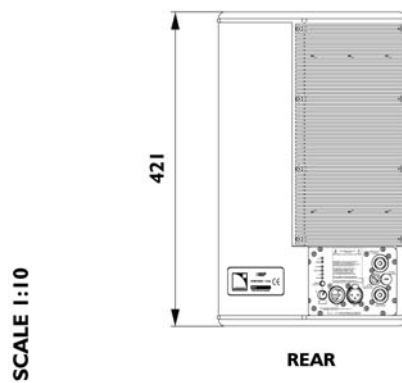
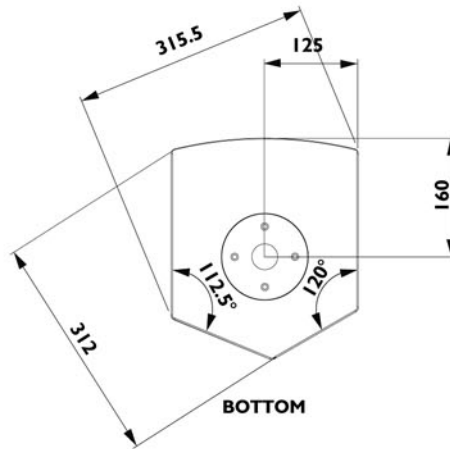
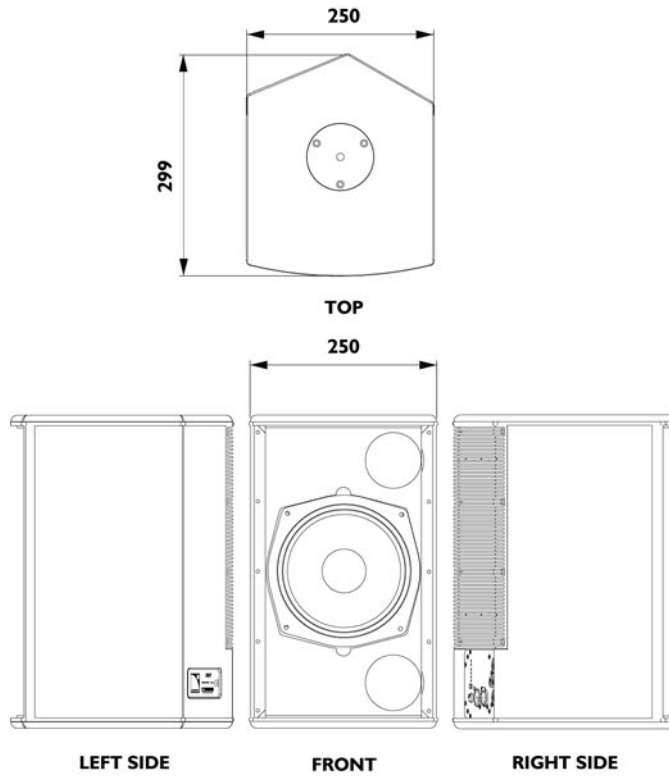
Sampling	24 bit / 48 kHz
Dynamic Range	> 105 dBA

Amplifier

Output Power	1 x 500 W (4 ohms – LF section) 1 x 250 W (8 ohms – HF section)
Gain	32 dB

Enclosure

Height	421 mm	16.6 in
Width	250 mm	9.8 in
Depth	299 mm	11.8 in
Floor Monitor Angle	30 degrees with respect to vertical	
Net Weight	12.8 kg	28.2 lbs
Shipping Weight	14.3 kg	31.5 lbs
Shipping Dimensions	490 x 330 x 370 mm 19.3 x 13.0 x 14.6 in	
Connectors	2 x XLR, 2 x PowerCon (input, loop through)	
Material	15 mm, 18 mm Baltic birch plywood	
Finish	Maroon-gray™	
Grill	Black epoxy perforated steel with acoustically-transparent, technically-advanced grille cloth	
Rigging	Integrated pole mount socket, adjustable U-bracket accessory available	



SCALE 1:10

(Dimensions in mm)

Figure 24: I08P Line Drawing

WARRANTY AND DISCLAIMERS

This product is warranted to be free from defects in components and factory workmanship under normal use and service for a period of 3 years from the date of original purchase.

During the warranty period, L-ACOUSTICS or its nominated agents will undertake to repair, or at its option, replace this product at no charge to its owner if it fails to perform as specified, provided that the unit is returned undamaged and shipped pre-paid to the factory or an authorised service facility.

No other warranty is expressed or implied.

This warranty shall be null and void if the product is subjected to:

- 1) Repair work or alteration by persons other than those authorised by L-ACOUSTICS or its agents.
- 2) Operation with incorrect AC voltage.
- 3) Shipping accidents, war, civil insurrection, misuse, abuse, operation with faulty associated equipment or abnormal wear and tear. Units on which the serial number has been removed or defaced will not be eligible for warranty service.
- 4) L-ACOUSTICS will not be responsible for any incidental or consequential damages with respect to the products warranted.

L-ACOUSTICS reserves the right to make changes or improvements in the design or manufacturing without assuming any obligation to change or improve products previously manufactured.

FACTORY SERVICE

In the event that your L-ACOUSTICS product needs factory service, contact the L-ACOUSTICS service department for return instructions and a Return Authorisation number.

Please note when returning products for service:

1. Use the original packing
2. Include a copy of the sales receipt, your name, return address, phone number, fax number and a description of the defect.
3. Mark the Return Authorisation number on the outside of the packing.
4. Ship the product prepaid to:

INTERNATIONAL:
L-ACOUSTICS
Attention : SAV
Parc de la Fontaine de Jouvence
91462 Marcoussis
France

Telephone: +33 (0)1 69 63 69 63
Fax: +33 (0)1 69 63 69 64
E-mail: info@l-acoustics.com

NORTH AMERICA:
L-ACOUSTICS US
Attention : After Sales Service
2201 Celsius Avenue, Unit E
Oxnard, CA
93030 USA

Telephone: +1 (805) 604 0577
Fax: +1 (805) 604 0858
E-mail: info@l-acoustics-us.com



DECLARATION OF EC CONFORMITY

For the product:

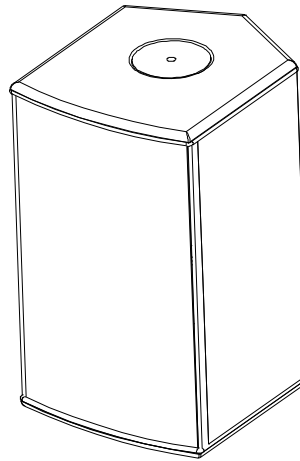
Catalog Item: I08P

Description: L-ACOUSTICS® I08P
loudspeaker enclosure

Dimensions: 421 mm x 250 mm x 299 mm
(H x W x D)

Material: Baltic birch plywood
with external steel rigging plates

Optional accessories:
Rigging accessory – ETR8-2



Product Origin

Country of origin of the product: France

Country of origin for components of the product: EEC

Standards conformity

L-ACOUSTICS hereby declares that the I08P loudspeaker conforms to :

1. **The Machinery Directive 98/37/CE**, Part 4 : Lifting Accessories
2. **Low Voltage Directive 73/23/CE** (harmonized standard EN60065).
3. **Electromagnetic Compatibility Directive 89/336/CE** (harmonized standard EN55103-1 E3 and EN55103-2 E3)

Established at Marcoussis, France, on the 4th of May, 2006

Signature of L-ACOUSTICS representative :

Jacques Spillmann
Chief Engineer - Manufacturing