

# PROFESSIONAL AUDIO SYSTEM





# **OPERATING MANUAL**

Ver. PP4-EN-1.0

### NOTICE:

LSS products are manufactured for use according to proper procedures by a qualified operator and only for the purposes described in this manual. The following conventions are used to indicate and classify precautions in this manual. Always heed the information provided with them. Failure to heed precautions can result in injury to people or damage to property.

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No patent liability is assumed with respect to the use of the information contained herein. Moreover, because LSS is constantly

striving to improve its high-quality products, the information contained in this manual is subject to change without notice. Every precaution has been taken in the preparation of this manual. Nevertheless, LSS assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of the information contained in this publication.



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### INTRODUCTION

Congratulation on the purchase of your new LSS loudspeaker.

Quality innovation and versatility, this is a summary of the new system developed by LSS for professional sound users.

LSS produces professional audio products – the result of exceptional engineering and meticulous craftsmanship.

This manual is intended for use with LSS loudspeaker. This includes: safety precautions; installation, set-up and operating instruction.

Please read this manual plus any accompanying manual and follow all relevant precautions and instructions. This should allow you to obtain the maximum performance from your new loudspeaker.

Where there are conflicts or overlaps, the information in any accompanying manual supersedes the information in this manual.



### SAFETY AND WARNING

#### IMPORTANT! SAFETY WARNING!

In the interest of their own and others' safety and to prevent voiding the warranty, we recommend a careful reading of this section before using the product.

- This product was designed and manufactured to be used as a speaker system in the context of a typical sound reinforcement system.

The use for any purpose other than these is not provided by the manufacturer and is therefore under the direct responsibility of the user / installer.

- This device complies with class I (must be connected to the outlet with a protective earthing connection).



TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER SERVICEBALE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK
DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE

### TO AVOID THE RISK OF FIRE AND / OR ELECTRIC SHOCK\*:

- Do not expose this system to rain or moisture. Do not expose the apparatus to dripping or splashing water. Do not place objects filled with liquids, such as drinks, on the apparatus.
- Before connecting the system, be sure the mains voltage corresponds to that stated on the product.
- Connect this appliance to a power outlet with earth contact, according to national security force, via a power cable of adequate section ends with a plug or connector that meets the applicable safety regulations.
- The unit is connected to the network even when the power switch is in position '0' (OFF). Before any maintenance, disconnect the power cable from the outlet.

#### **IMPORTANT! SAFETY PRECAUTIONS!**

Read This First.

Read and heed all warnings and safety instructions in this Manual before using the product.

Failure to follow all precautions can result in equipment damage and / or personal injury.

- 1. Read these instructions.
- 2. Keep these instructions
- 3. Heed all warnings and follow all instructions.
- 4. Use only attachments/accessories specified by the manufacturer.
- 5. 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.
- 6. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as 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.
- 7. LSS loudspeakers can produce sound levels capable of causing permanent hearing damage from prolonged exposure. The higher the sound level, the less exposure needed to cause such damage

CAUTION: This product is energized as long as it is connected to the AC.

CAUTION: Allow at least six inches of free space all around the amplifier for sufficient ventilation.

<sup>\*</sup>Risk of electric shock only for self-powered system.

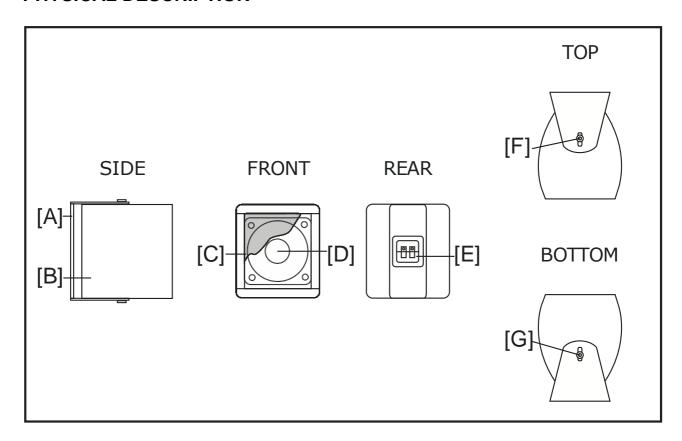
## **APPLICATION**

LSS' PP4 is extremely compact and wide-range loudspeaker for high quality distributed system applications.

PP4 comprises a single 100 mm (4") water-resistant cone driver with 16 Ohms nominal impedance and 25 mm (1") voice coil mounted in a sealed enclosure of Birch Plywood of 14 mm and plywood of 6 mm curved on sides. Despite the ultra-low size 140mm x 145 mm surprises in the natural timbre sound. The cabinet finiture can be customized on request.

LSS's PP4 is ideal for distributed systems, the cabinet with included U bracket allows easy installation. PP4 is ideal for sound reinforcement in A/V events, paging and background music. The comprehensive system mounting points allows safe suspension in permanent installations.

### PHYSICAL DESCRIPTION



- [A] Mounting Bracket
- [B] Enclosure Cabinet
- [C] Steel Protection Grid
- [D] Speaker

- [E] Connections
- [F] Mounting Nut
- [G] Mounting Nut

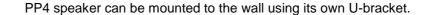
Materials and construction meet the highest professional standards to ensure maximum reliability.



# **TECHNICAL SPECIFICATIONS**

		Listania AAA [E EE2]
PHYSICAL	Dimensions mm (±1 mm) [Inches]	Height 141 [5.55"]
		Front Width 125 [4.92"]
		Rear Width 55 [2.16"]
		Depth 144 [5.67"]
	Weight Kilograms	Net Weight 1.5
		Shipping Weight 2.5
	Frequency Response	±5 dB 120 Hz ~ 18 KHz
		-10 dB 110Hz
SYSTEM PERFORMANCE  Sensitivity (1 Watt @ 1 m)  Max SPL Calculated  Nominal Input Impedance (Ω)  Power Handling (Watt cont. AES  Nominal Dispersion (@ -6 dB)	Sensitivity (1 Watt @ 1 m)	Full Range Passive 90 dB
	Max SPL Calculated	108 dB
	Nominal Input Impedance (Ω)	Full Range Passive 16 Ω
	Power Handling (Watt cont. AES)	Full Range Passive 60
	Naminal Dispersion (@ 6 dP)	Horizontal 80°
	Vertical 80 °	
MECHANYCAL		Birch Plywood of 14 mm
	Enclosure material	[0.55"] and 6 mm on side
		[0.23"]
	Finish	Texture poliuretanic black paint
	Grille	Powder coated perforated
		steel with anti-dust foam
	Connectors	Black an Red clamps
	Accessories	Wall-Mount Bracket (Included)

# **INSTALLATION AND WIRING**



The bracket must be fixed to the wall through the fixing holes using plugs suitable to support the weight of the entire apparatus.

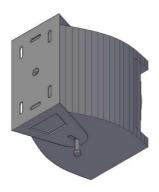
Bracket must be secured to the speaker with the screws on the top and bottom of the case.

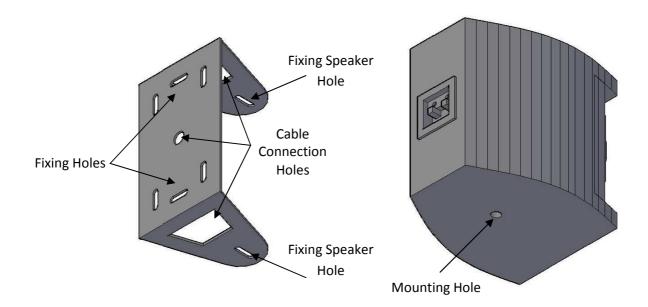
Once the bracket is fixed to the support, you can rotate the case respect to the bracket.

Installation can be done either in vertical or horizontal position.

Choose a safe mounting location, so as to prevent the cables can be stepped on or create tripping hazards.

Make sure that the shape and extent of the supporting surfaces are such as to ensure a safe support.





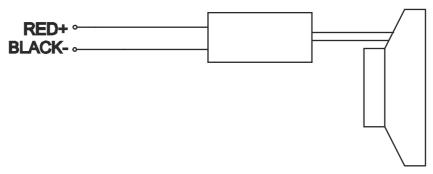


Before making connections between mixer and speakers, make sure the mixer volume is turned down.



In the connection panel there are two clamps used for electrical connection: one red and one black.

You can now use the system



# **WEEE DIRECTIVE**



#### Warning!

The product is marked with this symbol which indicates not to discard electrical and electronic equipment via the normal procedure for disposal of household waste. For these products there is a diverse collection system in accordance with legislation that requires proper treatment, recovery and recycling of used products. For more information please contact the appropriate local authority.

The black bar underneath indicates that the product was placed on the market after 13 August 2005.

#### INFORMATION FOR PROPER DISPOSAL

#### For home users

#### In the European Union

Warning: To dispose of this equipment, do not use the ordinary dust bin! The electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used products. Following the implementation by member states, private households within the EU can give free electrical and electronic equipment to designated collection facilities \*.

In some countries (\*), your local retailer may withdraw the old product for free if you purchase a new one of similar type.

**In countries outside the EU**: please contact your local authorities and ask for the correct method of disposal.

**In Switzerland**: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you do not purchase a new product.

Further collection facilities are listed on the homepage or <a href="www.swico.ch">www.swico.ch</a>. www.sens.ch.

#### For professional users

#### In the European Union

Warning: If the product is used for business purposes, the following steps to delete it:

contact your LSS dealer for information about the product recall.

Might be charged for the costs of collection and recycling. Small products (and amounts) might be taken back by your local collection facilities.

**In Spain:** contact the established collection system or the local authority for collection of used products.

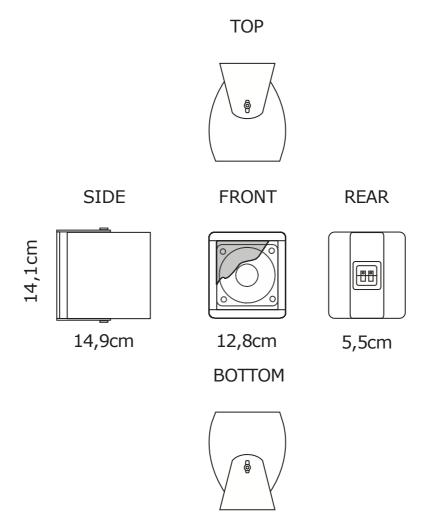
**In countries outside the EU**: please contact your local authorities and ask for the correct method of disposal.



<sup>\*</sup> For more information please contact the appropriate local authority.



# **DIMENSIONS**



PP4	

# **NOTES**





### **CONTACT INFORMATION:**

Via On. Longo 53
89024 Polistena (RC) ITALY
Tel (39) 966 9321299 – Fax (39) 966 933007
Email: info@lss.it - Internet: www.lss.it