

## **PROFESSIONAL AUDIO SYSTEM**

# SUBQREX



## **OPERATING MANUAL**

Ver. SUBQREX-EN-1.0

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## 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 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.

\*Risk of electric shock only for self-powered system.

#### **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.



TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE 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

## APPLICATION

SUB QREX is a bassreflex subwoofer of QREX SYSTEM. Thanks to the same frontal shape of QREX it is possible to mount them in stack or fly configuration similar to vertical array system.

The configuration of the cabinet is reflex system equipped with one custom subwoofer of 460 mm (18") with 100 mm (4") split winding copper voice coil, 57 mm (2") peak-to-peak.

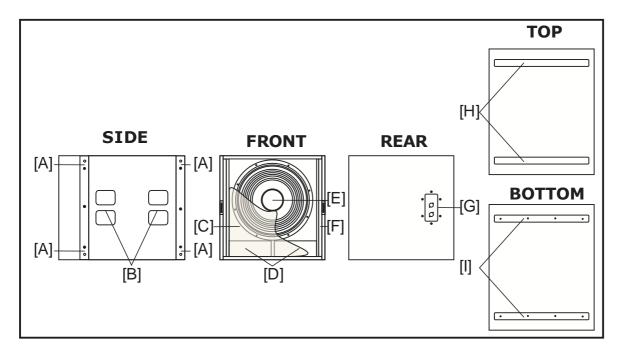
SUBQREX, owing to its linear tuning, produces a controlled low-end that goes down below 35 Hz.

Two different setups are possible thanks the multiple Speakon connection: omnidirectional (front) and cardioid (front and rear),total of four Speakon sockets – two on the rear and two on the front.

In cardioid mode SUBQREX subwoofers achieves a controlled radiation pattern with excellent rear damping.

Powering mode is only passive amplified operation with external Digital Processor.

## **PHYSICAL DESCRIPTION**



- [A] Fixing brackets holes
- [B] Handles
- [C] Steel Protection Grid
- [D] Reflex
- [E] Woofer

[F] Enclosure Cabinet [G] Connection panel

- [H] Accomodation for skids
- [I] Plastic skids

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



## **TECHNICAL SPECIFICATIONS**

PHYSICAL	Dimensions mm (±1 mm) [Inches]	Height 596 [23.46"]
		Front Width 600 [23.62"]
		Depth 720 [28.34"]
	Weight Kilograms	Net Weight 56
		Shipping Weight 62
SYSTEM PERFORMANCE	Frequency Response	±5 dB 30 Hz ~ 150 Hz
		-10 dB 25 Hz
	Sensitivity (1 Watt @ 1 m)	LF Range Passive 97 dB
	Max SPL Calculated	129 dB
	Nominal Input Impedance (Ω)	LF Range Passive 8 $\Omega$
	Power Handling (Watt cont. AES)	LF Range Passive 1500
	Nominal Dispersion (@ -6 dB)	360°
MECHANYCAL	Enclosure material	Birch Plywood of 18 mm [0.70 inches]
	Finish	Texture poliuretanic black paint
	Grille	Powder coated perforated steel with anti-dust foam
	Connectors	<ul> <li>4 Neutrik NL4 Speakon Speakon sockets:</li> <li>2 x rear: chassis PIN 2+ / 2– and PIN 1+ / 1– parallel</li> <li>2 x front: chassis PIN 1+ / 1– and PIN 2+ / 2– parallel.</li> <li>Rear pin assignment:</li> <li>PIN 1+ / 1– : optional tap for tops</li> <li>PIN 2+ / 2– : 18" chassis</li> <li>Front pin assignment:</li> <li>PIN 1+ / 1– : 18" chassis</li> <li>PIN 2+ / 2– : optional for additional subs</li> </ul>
	Accessories	Skate on wheels (optional), coupling and suspension hardware (included)

## **INSTALLATION AND WIRING**

SUBQREX can be installed stand-alone or in multiple installation. Multiple installation of SUBQREX and QREX can be done both in stack or fly configuration. Each loudspeaker has a fixing system that allows to be connected and secured to the other loudspeaker.

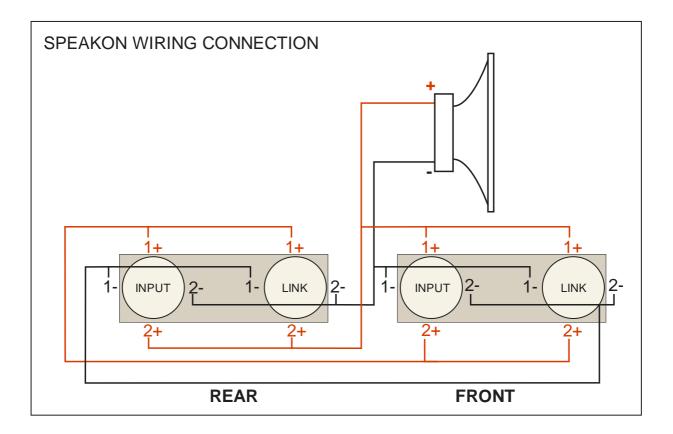
Connection system consist of four brackets inserted in the lateral uprights of the speaker and allow the anchoring of the speaker placed above it

SUBQREX has a multiple Speakon connection that allows cardioid operation mode: there are four Neutrik NL4 Speakon sockets – two on the rear and two on the front panel.

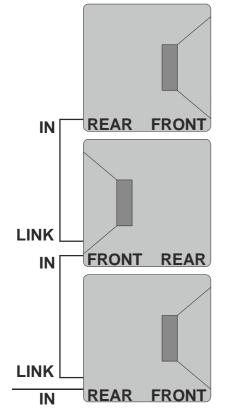
In the rear side: Pin pair 1 can be used to link other system (slave through). Pin pair 2 is connected to the subwoofer.

In the front side: Pin pair 1 is connected to the subwoofer. Pin pair 2 can be used to link other system (slave through).

The connectors on the front side have been provided for optionally linking a second channel with sub array in cardioids mode.







#### Cardioid mode

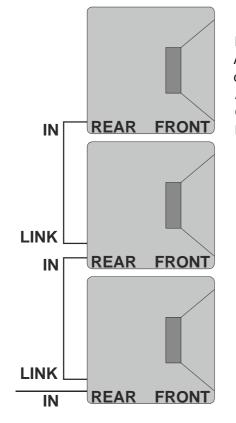
Amplifier and the first SUBQREX are connected via a single 4-poles cables.

All three SUBQREX are wired using 4-poles speaker cable. One amplifier channel will be assigned.

The two front-firing subwoofers and the single back-firing subwoofer are each driven by one dedicated amplifier channel. Two amplifier channel will be assigned.

Maximum four SUBQREX per channel are allowed.

(This configuration, in stacking mode, doesn't allow the use of hardware connection)

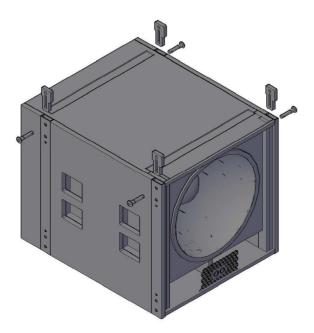


#### Normal mode

Amplifier and the first SUBQREX are connected via a single 4-cables.

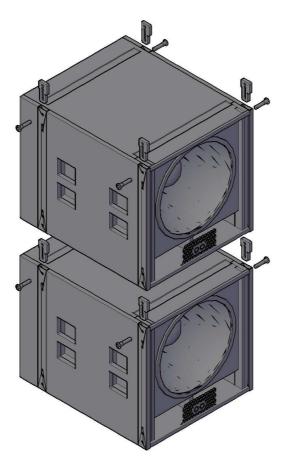
All three SUBQREX are wired using 4-poles speaker cable. One amplifier channel will be assigned.

Maximum four SUBQREX per channel are allowed.



When more SUBQREX are installed in stack, they must be locked using the clamping brackets. Maximum 3 SUBQREX can be installed in stack configuration.

The first SUBQREX can be placed on the BUMPERQREX support. BUMPERQREX increases stability in stack configuration





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

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

You can now use the system.

## WEEE DIRECTIVE

#### 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.

\* For more information please contact the appropriate local authority.

**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 <u>www.swico.ch</u>. <u>www.sens.ch</u>.

#### 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.

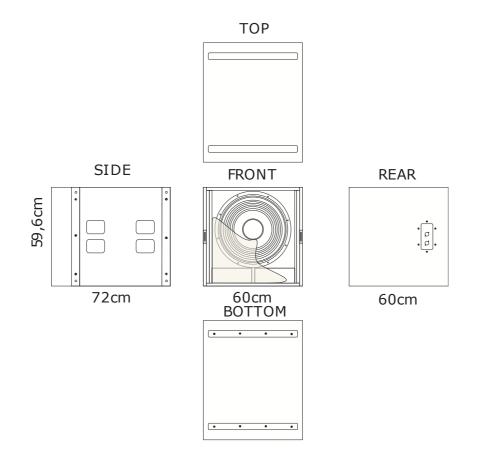
**In Spain:** contact the established collection system or the local authority for collection of used products.

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





## DIMENSIONS



## **NOTES**





**CONTACT INFORMATION:** 

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