

# LEON AUDIO

PROCESSED ACTIVE SPEAKER

**X**  
LITE  
115 A

Breakthrough developmen



# LEON AUDIO

## PROCESSED ACTIVE SPEAKER FEATURES ACROSS THE RANGE

- **Class D amplifier** with 1200W Low Frequency and 300W High Frequency, providing high dynamics for an always pleasant sound even at high listening volume.
- **BLUETOOTH 5.0** allows the pairing of two speakers to have music streaming and volume control on the two speakers simultaneously. This function requires smartphones and tablets with Bluetooth 5.0.
- **3-channel MIXER**: one channel dedicated to BLUETOOTH 5.0, two independent MIC / LINE channels with separate volume, one of which has a 6.3mm stereo jack input, balanced XLR MIX or CH1 LINK output.
- Control panel with two XLR inputs with volume, 6.3mm stereo jack input, XLR output with LINK CH1 or MIX selector, HP filter on / off, two mic / line selectors, DSP preset selector,
- **BLUETOOTH 5.0 volume**, button and LED pairing
- 90 VAC – 240 VAC high efficiency switch mode universal power supply
- Advanced filtering algorithms, dynamic equalization of low frequencies, energy control that change according to the chosen preset. These allow to obtain high SPL always guaranteeing reliability and absence of distortion
- **DSP signal processor with 4 equalization presets.**
- Integrated handles, M10 anchor points for suspended installation, 35mm stand socket and 30° and 45° monitor profile, make the X-Lite adaptable to all applications and performers.
- FBT custom speakers with high linear excursion and efficiency compression driver with 1" (25mm) throat and 1.4" (35mm) voice coil
- Designed to meet the performance of a wide range of portable sound applications and fixed installations.



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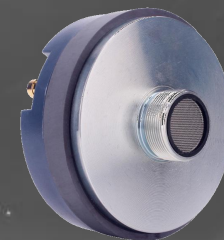
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## KEY FEATURES

- 2-way bi-amplified system in bass reflex
- Polypropylene molded enclosure
- Woofer custom 15" (LF) / 3" voice coil
- 1" throat / 1,75" voice coil HF compression driver
- 1200/300W built-in amplifier (LF/HF)
- Bluetooth 5.0
- 3-channels mixer
- 4 DSP presets
- 30° or 45° monitor taper
- Universal switching mode power supply 100-240Vac
- M10 rigging points



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### ELECTRONIC SPECIFICATIONS

System Types	2 way
Internal Amplifiers* peak LF/HF	1200/300 W
Input Impedance	22 kOhm 42Hz - 20KHz
Frequency Response	125/130 dB
Maximum SPL peak**	125/130 dB
Dispersion	90°x60° 500 W
AC Power Requirement	500 W

### PHYSICAL SPECIFICATIONS

Low Frequency Woofer	15- 3 coil
High Frequency Driver	1 - 1.75 coil
Input Connectors	XLR IN/OUT, JACK ST
Net Dimensions (WxHxD)	inch 17,04 x 27,81 x 15,74 mm 433 x 706,5 x 400
Shipping Dimensions (WxHxD)	inch 19,68 x 30,31 x 18,50 mm 500 x 770 x 470
Net Weight	21.5 Kg
Shipping Weight	24 Kg
Enclosure Material	Polypropylene
Grille	Steel with powder coated black paint finish
Power Cord	16,4ft / 5mt

\* Max.: 2mS burst, rms power on nominal speaker impedance

\*\*Peak SPL: free space, based on max. peak power amp rating and system peak sensitivity, 10mS time average



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## PRODUCT DESCRIPTION

The XLITE 115A series speakers with integrated 3-channels mixer feature lightweight, yet rugged gas injected molded polypropylene cabinet construction. Available in black finish, the XLITE 115A series speakers provide fixed installations with an elegant design that blends into any decor. The asymmetrical shape of the XLITE 115A cabinet also allows use as a powered floor stage monitor. The XLITE 115A is two way design incorporating a 15" low frequency woofer and 1" HF compression driver coupled to a 90°H x 60°V constant directivity horn. With a frequency range of 42Hz - 20kHz the XLITE 115A speaker provide high fidelity sound for both speech and music applications with a maximum SPL of 130dB. The bi-amplified XLITE 115A active speaker feature a 1200W low frequency amp and a 300W high frequency amp. The control panel features a three-channel mixer with two micro-line inputs, a stereo input and a dedicated channel for bluetooth 5.0; two xlr inputs, stereo input, xlr output with ch1 or mix link selector, hp filter, two mic-line selectors, dsp preset selector, bluetooth 5.0 with pairing led. 4 x M10 rigging points built-in into the cabinet along with the optional mounting brackets allow the XLITE 115A speaker to be surface mounted on walls or ceilings. A standard 1.38" speaker stand socket allows the XLITE 115A to be mounted on speaker stand.

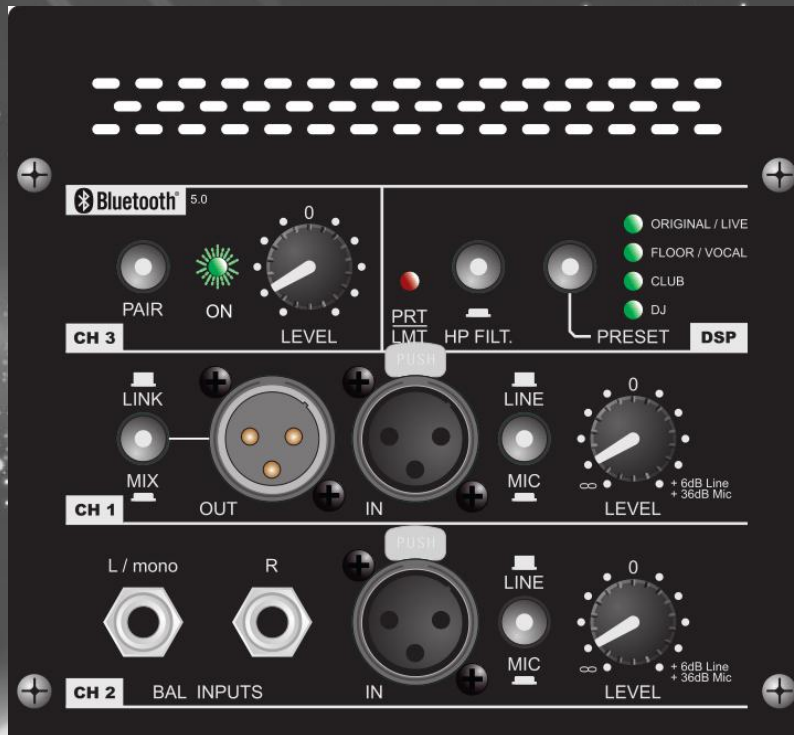


**XLITE**  
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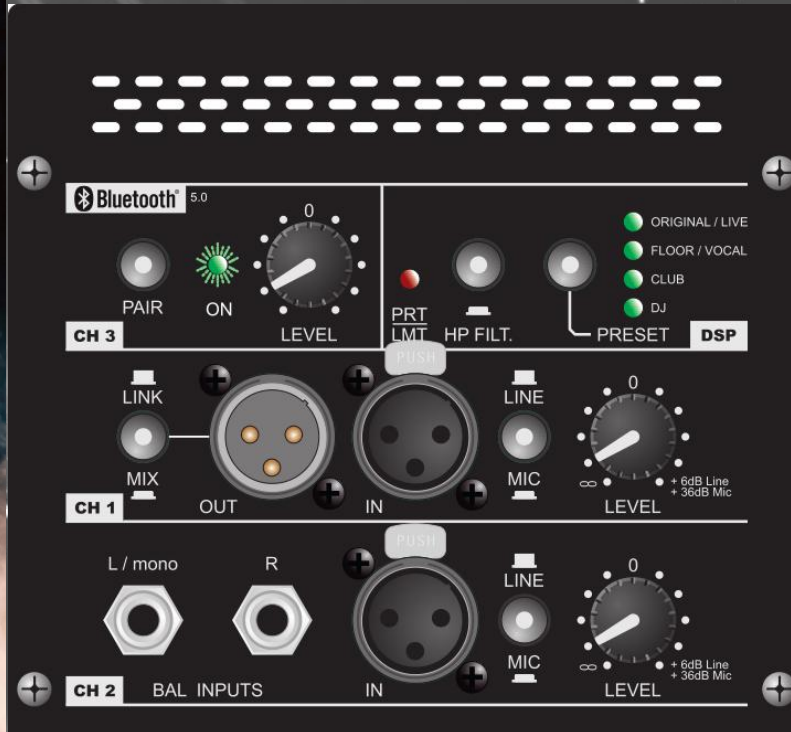
## DSP

- **PRT/LMT:** The PRT/LMT LED indicates when the limiter is triggered to prevent thermal overload and the protection status due to an internal malfunction. If this occurs (fixed light and no signal), turn off the speaker and wait at least 5 seconds before turning it back on. If the LED remains on, contact technical support. If the LED flashes accompanied by a music signal, it indicates that the maximum power has been reached. Do not increase the volume beyond this threshold to avoid degrading sound quality and damaging the transducer.
- **HP FILTER:** The HP FILTER button activates a “high pass” filter with a cut-off frequency of about 100Hz at 18dB oct (to be activated in configuration with the subwoofer). The PRESET function, managed by DSP, allows you to modify the speaker response by adapting the timbre to the specific applications; in addition to equalization, the presets also modify the dynamic processing to guarantee maximum SPL.
- **ORIGINAL / LIVE:** The ideal preset for most “live” applications
- **FLOOR / VOCAL:** The speaker is “specialized” for use as a stage monitor and also allows for maximum speech intelligibility.
- **CLUB:** Preset with accentuated bass and slightly attenuated treble, also suitable for medium/low volume listening.
- **DJ:** Suitable for disco club installations.

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## CH1

The XLR IN socket is used to connect a mixing console or microphone; for low-level signals, such as microphones, set the LINE/MIC button to the MIC position; for high-level signals (typically -10dB/+4dB), such as mixers, set the LINE position.

## CH2

This channel has 6.3mm jack sockets for keyboard or CD/MP3 player connection; the XLR IN socket is used to connect a mixing console or microphone; for low level signals, such as microphones, set the LINE/MIC button to MIC position, for high level signals (typically -10/+4dBV), such as mixers, set the LINE position.

## CH3

**BLUETOOTH 5.0:** Enable Bluetooth mode on your tablet or smartphone device. Press the PAIR button, the relevant LED flashes, the speaker model will appear in the list of new devices. Confirm the pairing, the LED indicator light remains steady. Repeat the same step to connect a second speaker (Two speakers can only be paired simultaneously with a BLUETOOTH 5.0-compatible device). The pairing procedure must be repeated every time the speaker is switched off

## OUT

The XLR OUT socket allows connection to another speaker; enabling the dedicated button in the MIX position allows you to mix the sounds by adding the signals present in channels 1, 2, 3. With the button in the LINK position, the output is the physical link of the input in CH1

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CONNECTION EXAMPLES

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Configuration with 2 speakers connected together with connection of a microphone and a musical instrument.



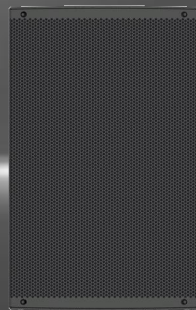


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CONNECTION EXAMPLES

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Configuration of 1 speaker connected to 2 microphones, a keyboard and CD/MP3 player.

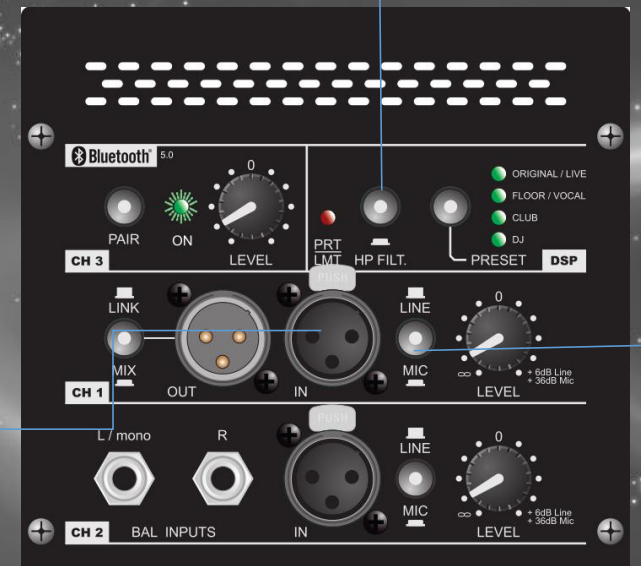
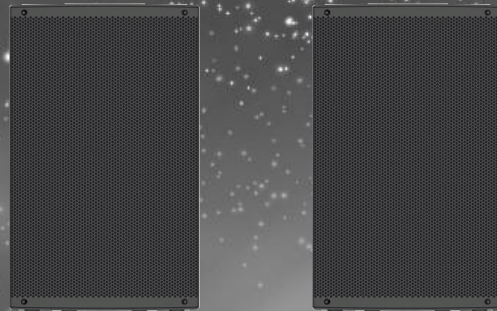


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CONNECTION EXAMPLES



Basic configuration with two speakers and mixers

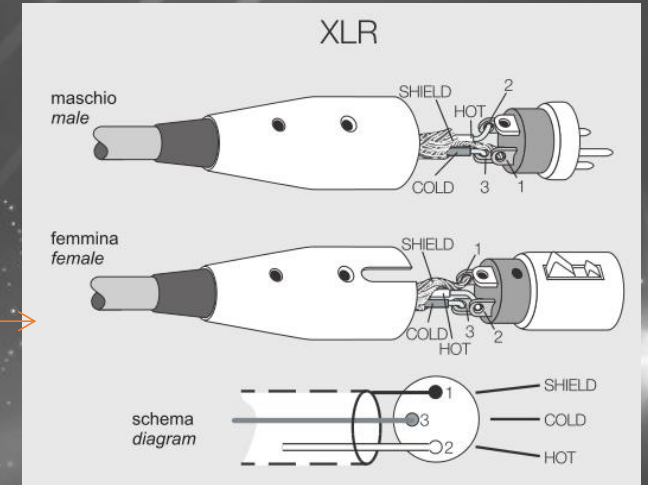
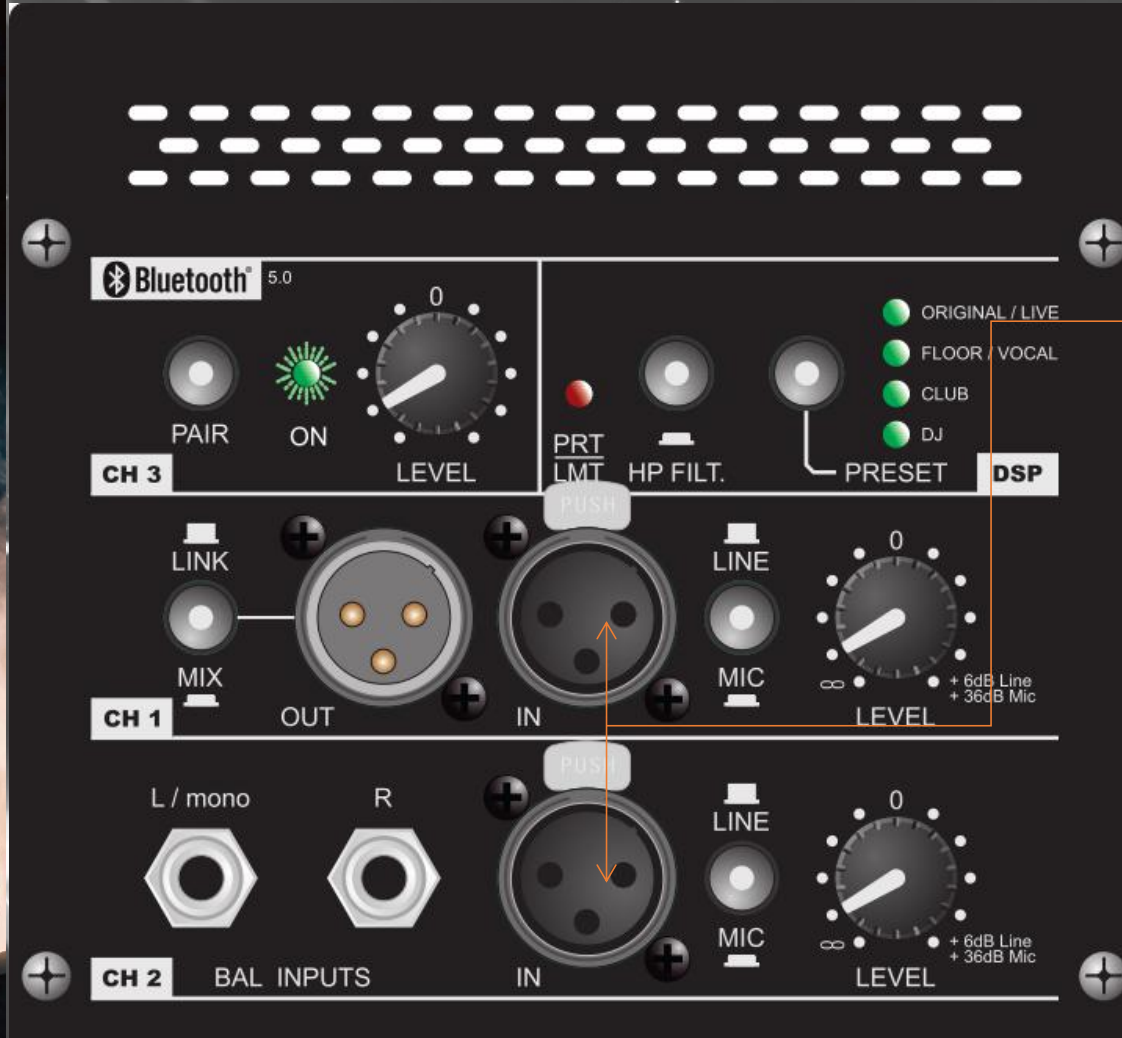


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CONNECTORS

# X LITE 115 A

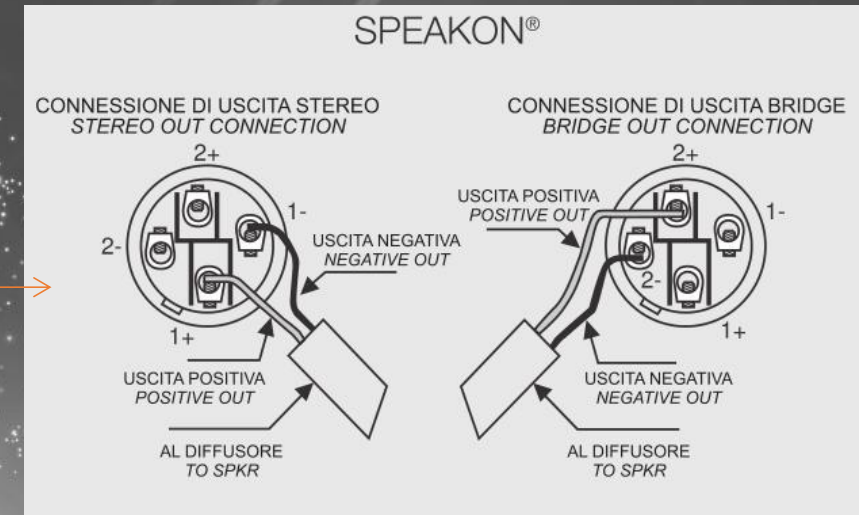
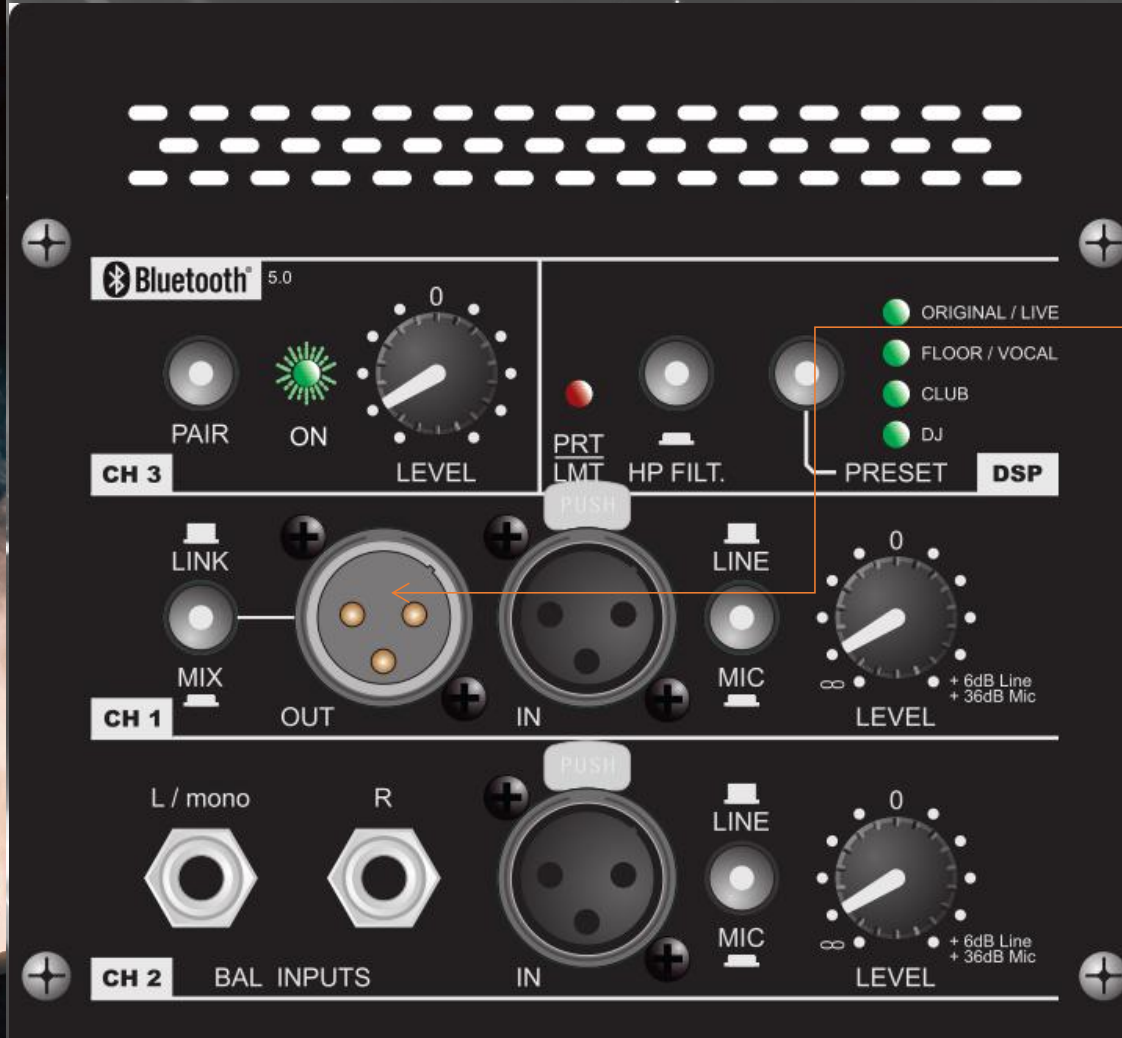


The 3-pole XLR connectors are almost always used for conducting mono-balanced signals; the three poles correspond respectively to ground (1), the positive signal (2) and the negative signal (3).

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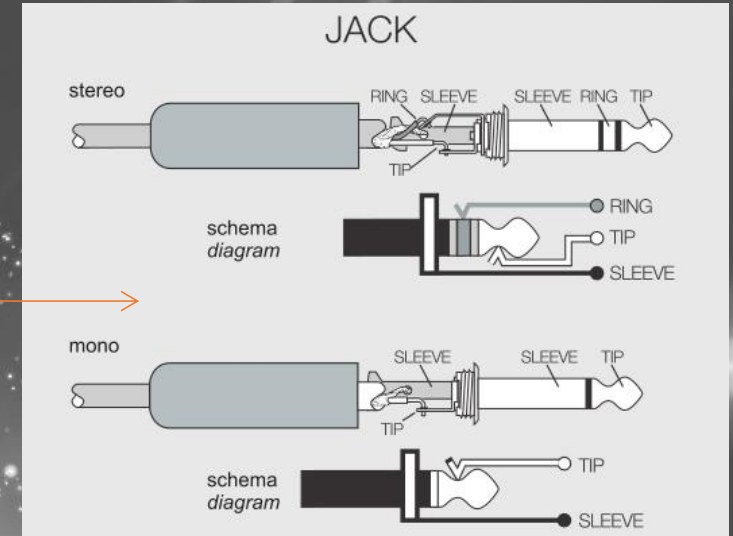
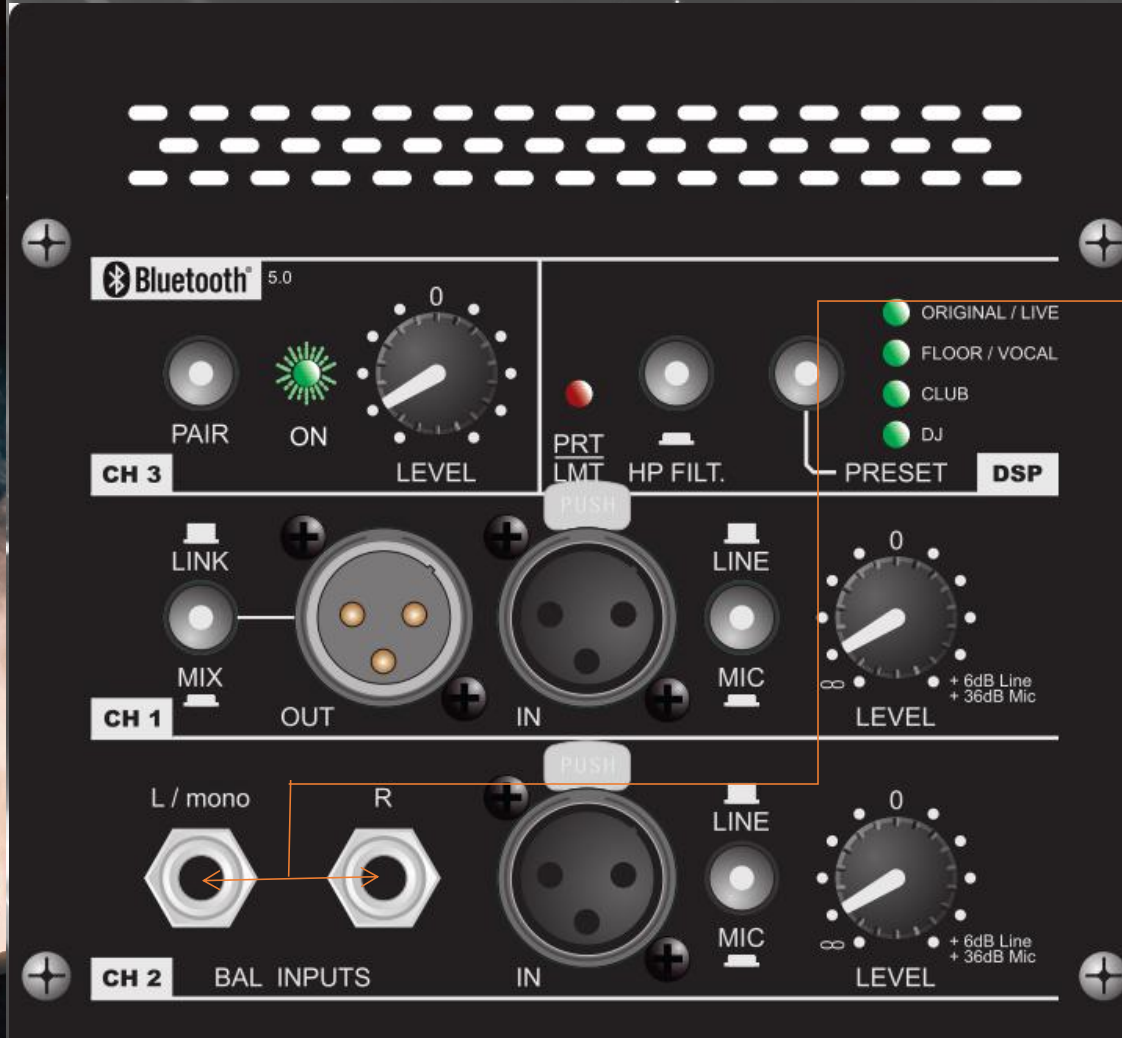


SPEAKON is a connector which is specially adapted for connecting power terminals to loudspeakers; when inserted in an appropriate socket it locks so as to prevent accidental disconnection; moreover, it is equipped with protection against electrical shocks and guarantees the correct polarisation

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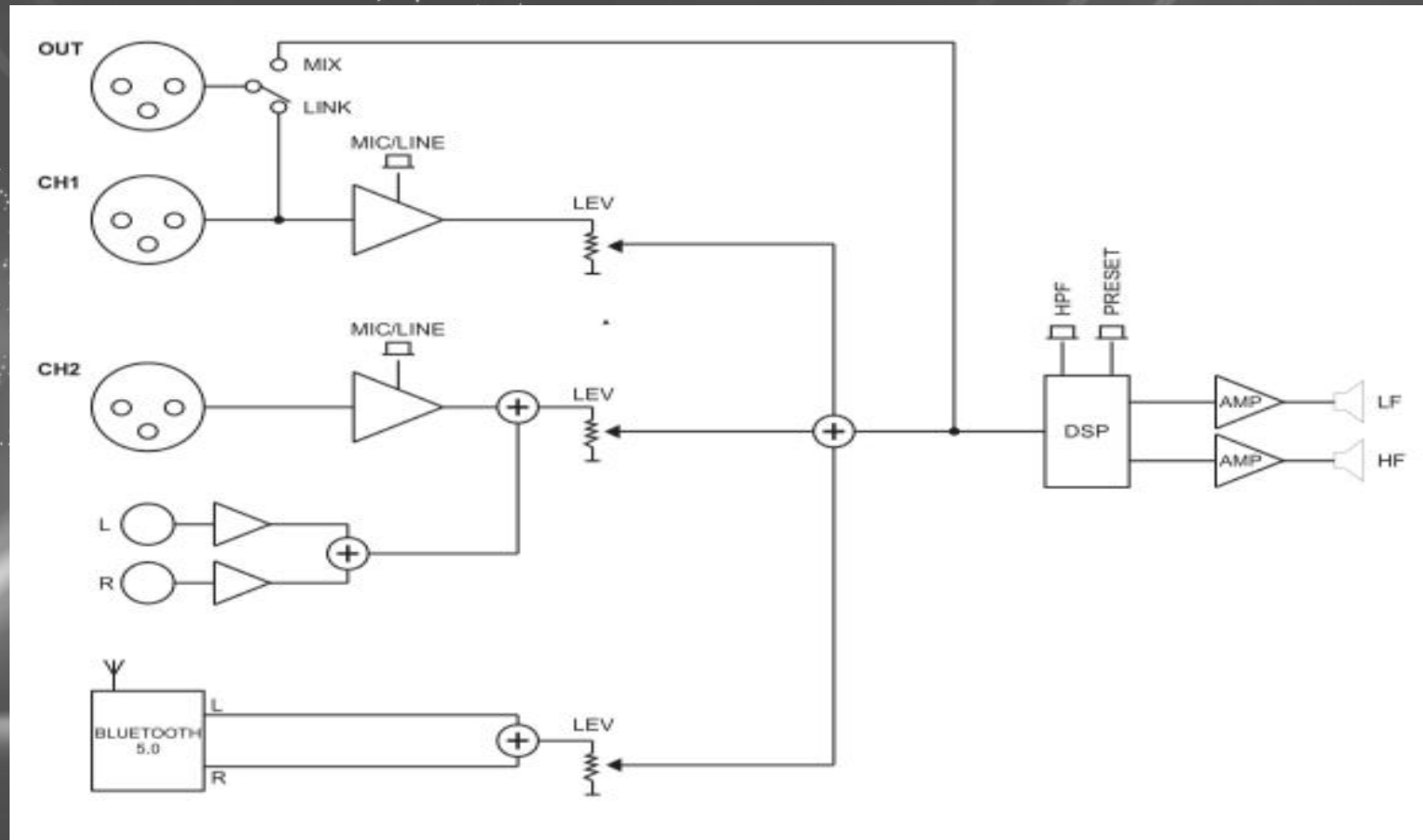
The JACKS are typical connectors for the transporting of two separate signals through two channels, left and right, using a single connector and therefore they can be either mono or stereo. Mono jacks (TS) also known as unbalanced jacks, are recognisable from stereo or balanced jacks (TRS) by their composition. The point of the mono jacks is divided into two parts, tip and ground (Tip and Sleeve) to which the two poles are connected; the stereo or balanced Jacks are divided in three parts, as they have a central ring (Ring) which is connected to a second wire, the third (negative) pole

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BLOCK DIAGRAM

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