



CL3212-P

Compact Active 2-way Loudspeaker

Application:

PA systems for clubs, bars, restaurants, music bands, indoor and outdoor usage



Portable series

- 12" Neodymium Magnet Speaker
(B&C SPEAKERS)
- 1" HF Driver (B&C SPEAKERS)
- Maximum Output 123dB SPL
- Frequency Range 70Hz - 18kHz
- Coverage 70°H x 70°V
- Bi-Amp System with
FIR Signal Processing
- Built-in Class D amplifier (350 W + 350 W)
with DSP Engine
- 3 Preset Equalization Settings
- 2 Preset LPF Settings
- Flange for Installation
to the Speaker Stand
- 12 Mounting Holes M10

Active loudspeaker **CL3212-P** is a combination of high efficiency speakers from B&C SPEAKERS (12" speaker with neodymium magnet + 1" driver with 1.7" voice coil) and amplifier with **DSP** engine. The loudspeaker works in **Bi-Amp** mode with separate amplifiers for each frequency bands.

The **DSP** engine, installed into the amplifier, performs the functions of **FIR** crossover and **EQ**, time alignment, limiting and speakers overload protection. As a result – flat frequency response, clear and transparent sound and practically ideal linear phase characteristic.

The **CL3212-P** cabinet is made of birch plywood with black water-polymer paint finish (other colors available). The sloping rear corners of the cabinet reduce internal reflections and prevent the occurrence of a standing waves. The front panel of the loudspeaker is covered with a decorative protective steel grid. Additional protection against moisture is provided by acoustically transparent foam, glued to the inner surface of the grid.

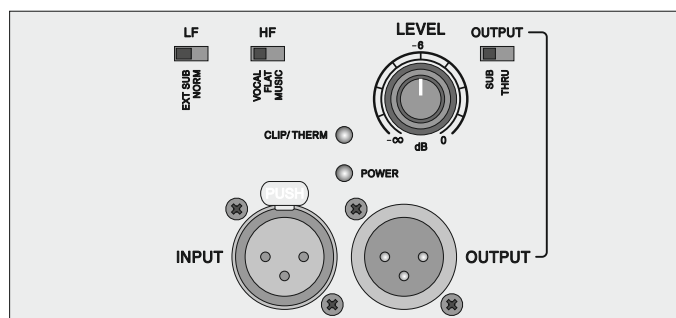
Built-in amplifier is installed on insulated compartment to the rear. The amplifier is equipped with forced cooling system and switching power supply.

Two ergonomic handles are located on the sides; stand flange is located on the bottom wall.

Due to 12 mounting holes M10 the loudspeaker can be mounted at any position.

OPERATION MODE

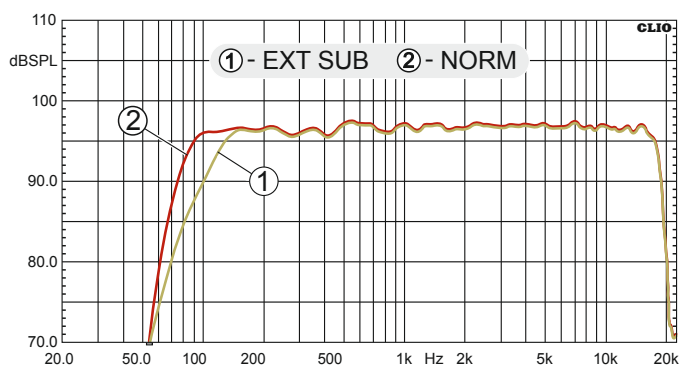
Mode switches are located on the front panel of the built-in amplifier.



LF Switch

EXT SUB – for use together with subwoofer. The cutoff frequency of the high pass filter is 100 Hz. In this mode, the system **CL3212-P** is aligned with subwoofer **TX6118-P**.

NORM – for independent use in wide frequency range. SPL curves, which correspond to these switch positions, are shown below.

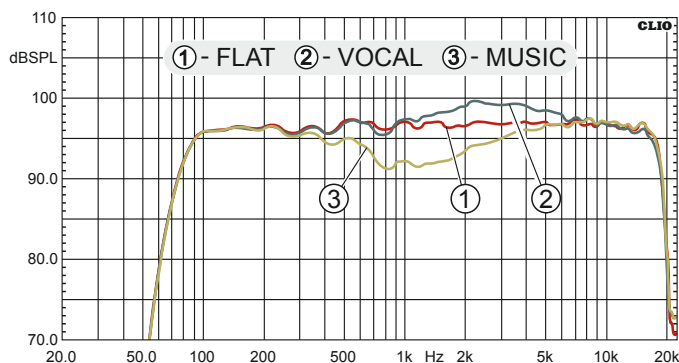


HF Switch

FLAT – flat frequency response and linear phase response for neutral balanced sound.

VOCAL – additional presence in the vocal range for a good vocal clarity.

MUSIC – frequency response with rise of low and high frequencies for modern music reproduction.



Line Input Switch

THRU position – line input and line output are connected in parallel. Used for parallel connection of multiple systems.

SUB position – output signal, processed by LPF filter, is applied to the linear output. The **SUB** mode is designed for use **CL3212-P** loudspeaker with passive subwoofer, connected via external power amplifier.

TECHNICAL DATA

Loudspeaker

Configuration and Acoustic Design

Active two-way loudspeaker.

Rectangular housing, bass reflex.

LF Driver:

12" dia B&C SPEAKERS, voice coil 3"

HF Driver:

1" dia B&C SPEAKERS, voice coil 1.7"

Specifications

Power Handling (nominal / continuous):

– HF	60/120 W
– LF	350/700 W

Frequency Range:

– EXT SUB mode	100 Hz - 18 kHz
– NORM mode	70 Hz - 18 kHz

Coverage

70°H x 70°V

Maximum Output SPL

123 dB / 1m**

Weight

23.5 kg

Dimensions

362 (w) x 620 (h) x 418 (d) mm

Built-in 2-channel Amplifier With DSP Engine

Power Rating (RMS)	2 x 350W, class D
Sensitivity	775 mV
Input Impedance	10 kOhms
Signal-to-Noise Ratio	98 dB (unweighted)
Input / Line Output	XLR/XLR
Cooling System	forced**
Power Requirements	~230 V, 50/60 Hz

Note.

* Maximum output SPL indicated. For comparison purposes and in accordance with common industry practice, maximum SPL specifications are calculations based upon transducer sensitivity, amplifier output voltage and speaker impedance.

** With smoothly variable intensity. At a normal temperature and low output level the fan is OFF.

