

BX151A

Active subwoofer

Montarbo
Made in Italy



BX151A is a high performing yet extremely compact active subwoofer characterized by its outstanding efficiency, precision and sonic imaging, which is the result of state-of-the-art engineering and extremely high-quality components and workmanship.

The compact cabinet size and the significant weight reduction, obtained thanks to the use of neodymium-based components, makes for easy transport and installation, but they don't compromise in terms of low frequency response extension and exact reproduction of transients.

FEATURES

- Class AB MosFet power amplifier delivers a total output power of 500 Watts.
- 127 dB max SPL.
- 15" neodymium magnet woofer with a 4" voice coil.
- Strong and sturdy cabinet made from high grade phenyl-glued multiply birch and finished with highly resistant antiscratch polyurethane black paint.
- Side handles.

ACCESSORIES

- SM4 coupling bar.

APPLICATIONS

- Suitable for both indoor and outdoor use
- Concert halls
- Theatres
- Medium to large clubs

SUGGESTED COMBINATIONS

BX151A	NM250A	T10A	W440A
 15" 500 W	 1 x 18" 250W	 1 x 10" 300W	 1 x 12" 400W
1 +	2	1	1

PRO - DATA SHEET

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ARCHITECTURE

• BX151A utilizes one 15" (4" voice coil) high efficiency woofer featuring neodymium alloy magnet and light-alloy die-cast frame. This custom designed woofer incorporates innovative manufacturing technologies that result in greater power handling with lower moving coil temperature, thus guaranteeing large reliability margins. The cone surround and the voice coil former and suspension are manufactured using new hi-tech materials, with improved fatigue, wear and aging behaviour.

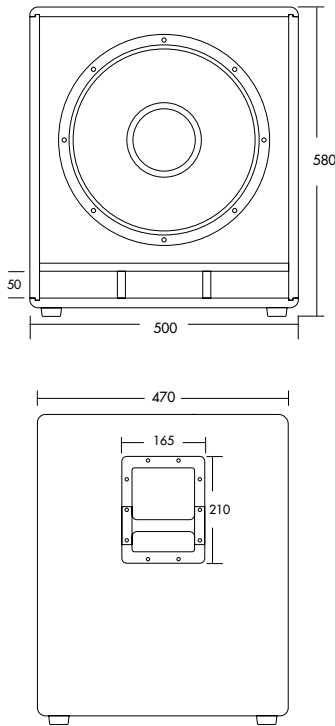
It guarantees time constant performances, with no degradation of specifications, even under difficult environmental conditions.

- The on-board electronics, the fruit of cutting-edge engineering, include:
 - self-diagnostics circuitry
 - Dynamic EQ Controller (**D.E.Co.**): a sophisticated speaker protection circuit, developed in the Montarbo R&D labs, that monitor the operation of the internal power amplifiers in real time. The D.E.Co. integrates the functions of a dynamic equalizer with those of a compressor/limiter, whose operating thresholds are dynamically set, in real time, by the amplifier's available power reserve. It eliminates power amplifier clipping, even with very high input signals, and the dynamic equalizer controls the frequency response, thus guaranteeing a full and controlled bass response, without compromising the available dynamic range.
 - an internal **stereo electronic cross-over** (that may be bypassed for wide-band use) that drives the internal low frequency power amplifiers and the external active loudspeakers (or external power amplifiers) for the middle and high frequency range.
 - an internal **power amplifier** (MosFet, class AB) designed around an innovative driver stage that guarantees the lowest possible distortion, while providing excellent dynamic and tonal performance.
 - the output stage is cooled by a **forced air heat exchanger**, equipped with a temperature-controlled, low-noise, variable-speed fan that ensures safe and cool operation under any operating conditions.
- The control and connection panel is fitted with: mains Neutrik PowerCon® connector guaranteeing a reliable vibration-proof, contact; 2 balanced inputs, fitted with Neutrik Combo® connectors which accept both XLR and jack plugs for the connection to the mixer; 2 balanced XLR male sockets ('link') for parallel connection of active speaker systems; 2 unbalanced XLR male sockets for the stereo x-over output; 'X-Over / Flat' switch allowing the satellite speaker systems, connected to the stereo output, to receive a full-range signal or the upper audio range only; input level control; 'X-Over' volume that allows you to set the volume of the speaker systems connected to the X-OVER output; **phase reverse** switch, by means of which the absolute phase of the subwoofer may be reversed, allowing for the use of satellite loudspeakers with a non-standard phasing, or for multi-subwoofer installation, thereby avoiding possible phase cancellations.
- Construction and components conform to the highest professional standards for maximum reliability. The cabinets, made from high grade phenyl-glued multiply birch and finished with highly resistant antiscratch polyurethane black paint, are fitted with a sturdy steel protection grille, ergonomically designed side handles for easy transportation and set-up and with an adaptor for satellite supporting pole SM4 (optional accessory).

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Dimensions in millimeters



BX151A = 38Kg

TECHNICAL SPECIFICATIONS

Enclosure	bass-reflex
Frequency response	36Hz ÷ 100Hz (-3dB)
Sensitivity	101 dB SPL @1W/1m (half space)
Max. SPL	127 dB
Max. power	500 W

- Components custom designed
15" neodymium magnet, high efficiency woofer (4" voice coil)

Impedance	4 ohms
Frequency response	36Hz ÷ 100Hz (-3dB)

- Stereo electronic x-over 24 dB/oct (Linkwitz-Riley)
Crossover frequency 100 Hz

- Built-in amplifier MosFet, class AB, dedicated power unit, Dynamic EQ Controller (D.E.Co.); soft start' circuit; forced air heat exchanger

Max. output power	500 W
Input impedance	10 kohms (balanced)
Input sensitivity	0 dBu (775mV)
Noise referred to input	- 108 dB (A weighted)

- Connections 2 Neutrik Combo® balanced inputs
2 XLR (Link) balanced outputs
2 XLR (X-over) unbalanced outputs

- Controls Input level control
x-over volume control
crossover insertion
phase reverse

PHYSICAL SPECIFICATIONS

- Construction birch multiply;
antiscratch polyurethane paint;
powder coated steel protection grille with external foam

- Fittings Side handles

- Dimensions / Weight W 50 x H 58 x D 47 cm / 38 kg

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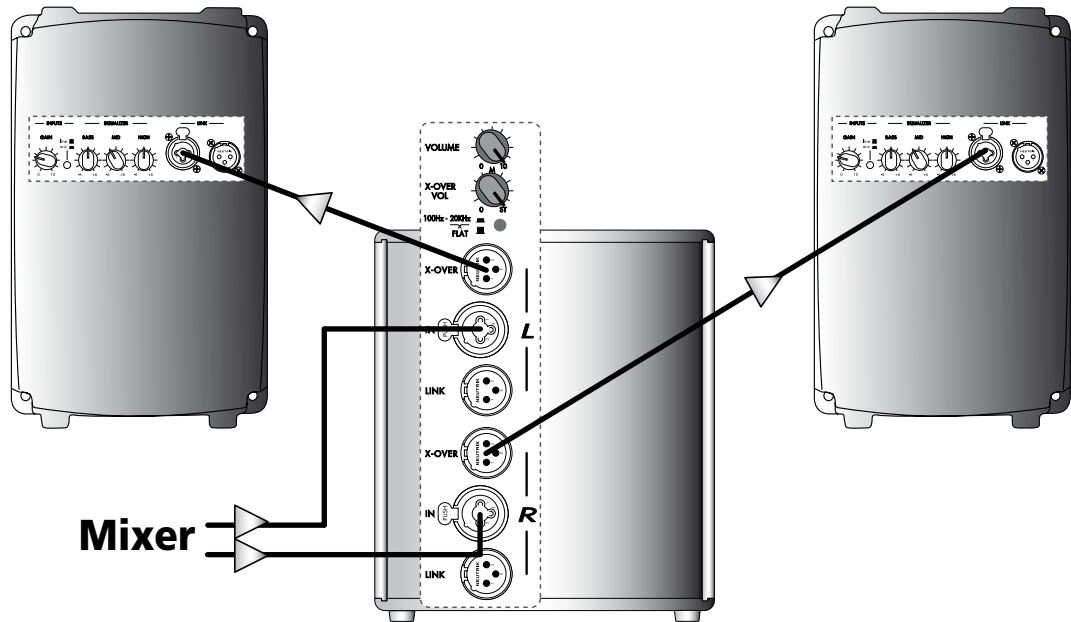
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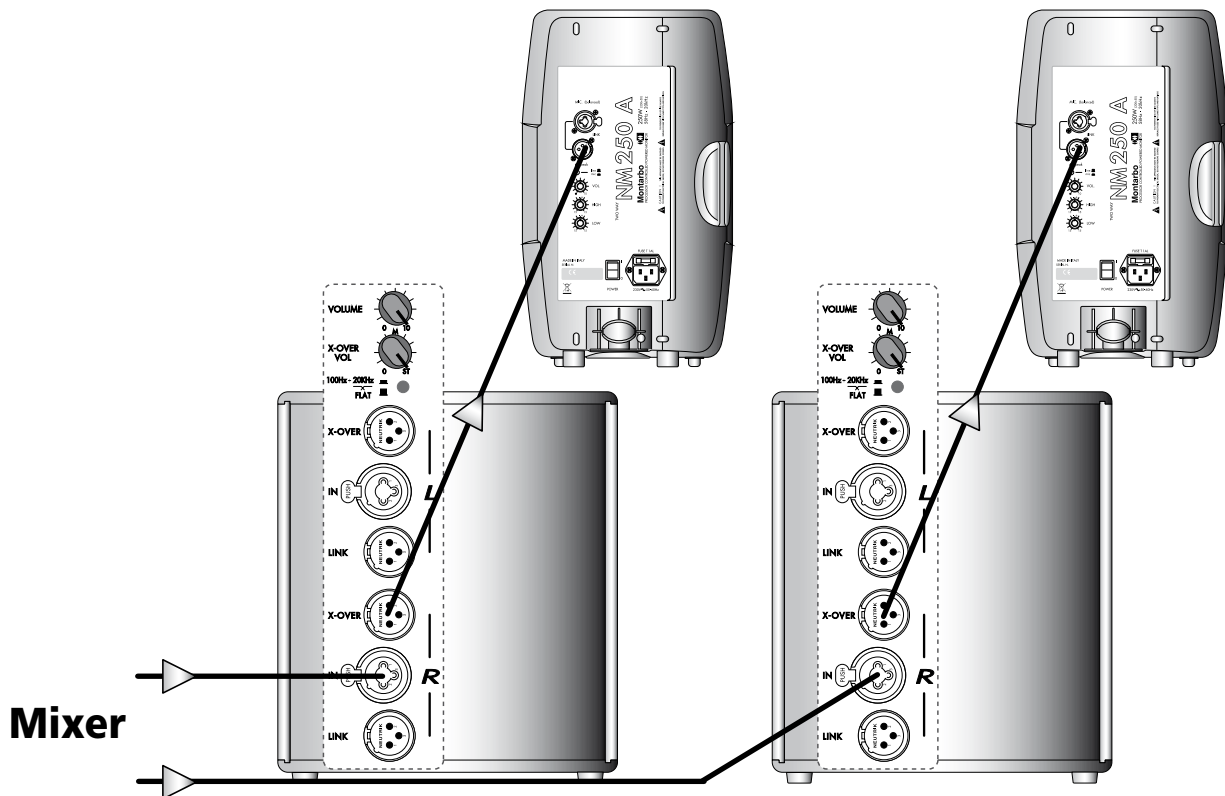


CONNECTION EXAMPLES

1 x BX151A + 2 x W440A



2 x BX151A + 2 x NM250A



PRO - DATA SHEET