

**ACTIVE BI-AMP
LOUDSPEAKER**

SIDE

SCHERTLER®



INSTRUCTION MANUAL



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Welcome to the world of Schertler® with your purchase of the SIDE 180W full range active loudspeaker (shown in combination with the BASS-200 active bass extension) simply one of the best sound-engineered combinations available today.

The system is high powered and designed to provide undistorted volume with a proportionally high level of sound pressure. The advantages of this are obvious, in that, the sound level becomes transparent adapting to the surroundings and allowing the sound to “cut through” ambient noise instead of adding to it. This also lets you “fill” in sound with minimum volume levels creating a fuller projection of the amplified sound. Paired with the optional BASS-200 active bass extension, you will experience the most CONTROLLED bass available. No more “sub bass” distortion, but pure control of frequencies still known to man. You also have countless combinations for the matching of several units creating an impressive array that will put most professional PA systems back in the box they came in

Construction:	2-way Bass Reflex 8" woofer / dome tweeter 1"
Power output:	180 watts continuous RMS, bi-amplified
Low:	150 watts continuous (0.1 % THD)/ 300 watts peak (1.0 % THD)
Mid/High:	30 watts continuous / 50 watts peak (0.10 % THD)
Frequency response:	40 Hz – 22 kHz
Maximum SPL:	114 dB
Connections:	Combo XLR/Jack line-in + XLR parallel-out
Power supply:	220 Vac 50 Hz / 115 Vac 60 Hz (manual switching)
Safety:	Ground lift switch (anti-hum)
Controls:	Volume
Mounting/transport:	ø36 mm std. Mount / spring loaded carrying handle
Dimensions:	390 x 340 x 27 (mm)
Weight:	13.0 Kg (ca. 29 lbs.)

Controls

Ground Lift switch

The ground Lift is a particularly useful tool when earth loops are produced. An earth loop is recognisable by a humming sound, which is normally heard as a background noise. This particular form of interference occurs when various instruments are connected to the same mains line and are connected to one other by audio signals. The Ground Lift breaks the earth in the circuit (not the earth connection proper), and in most cases succeeds in cutting out over 90% of the noise.

Volume

The volume control adjusts the maximum output level of the speaker.

Inputs

Balanced Input

The balanced Input makes it possible to connect to the speaker via XLR which optimizes interference and background noise rejection.

Unbalanced Input

The balanced/unbalanced COMBO input makes it possible to connect to the speaker with both XLR (which optimizes interference and background noise rejection) and standard 1/4" jack cables.

Outputs

Line Output

The line Output is a signal and not a power output. Therefore, using this output one obtains an exact copy of your original input signal. This can be used to link a number of powered speakers together; to connect to other amplification or monitor systems, or even as a connection to a tape, CD or Minidisc recorder.

Practical advice

When you are using an amplified speaker, one of the most important recommendations is to avoid at all costs a distorted input signal.

This means that when you are controlling the sound in the mixer (or any other preamplifier), you must avoid reaching saturation level. In the case of instruments it is advisable to keep the Gain control on a minimum, to control the volume with the fader (slider volume) for the channel; and to keep the master volume controls at around half way. During use of a microphone use the same principle as controlling the instrument, and adjust the Gain to increase the sensitivity of the microphone input.

In the case of amplified speakers, the arrival of a distorted signal (square wave) may damage the internal amplifier beyond repair, which may in turn damage the loudspeakers.

Correct use of speakers guarantees their long life.