

Gradient

SW-S/D with QUAD ESL

USER GUIDE

GRADIENT SW-S/D

Congratulations for your purchase of the Gradient SW subwoofer system for the Quad Electroacoustic loudspeakers.

This manual covers also the active crossover-amplifier and special features of the loudspeaker system. We recommend you to read this manual entirely to fully utilize the high performance of your speaker system.

POSITIONING

Gradient SW-S/D is equipped with three adjustable feet with nuts. Adjust the three feet in such a way that loudspeaker stands steadily on the floor. Tighten the feet with nuts using a 10mm wrench. If necessary, the adjustable feet can be replaced by M6 spikes.

The subwoofer units should be placed on the inner or outer side of the Quads so that the distances from the listener will be within $\pm 0.5\text{m}$ (20"). However the distance between the Quad and the subwoofer unit can be larger. See figures 1 and 2.

Because of the dipole (figure of eight) radiation of the subwoofers it is easy to affect on the quality of bass. By rotating the subwoofers you can fine tune the bass. Usually it is recommended to use symmetric positioning (both systems in mirror layout).

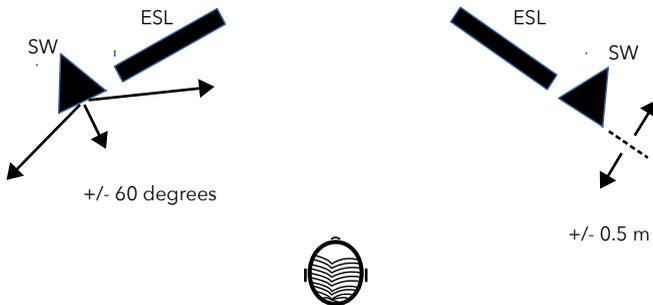


Figure 1. The woofers can be oriented freely +/-60 degrees to reach the optimum bass performance. The mutual distance of the speakers can vary. In any case it is recommended to use symmetric layout.

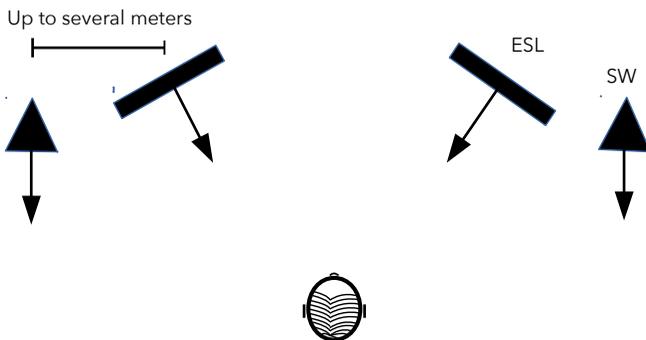


Figure 2. The woofers parallel to the side walls, firing along the walls, will increase the bass output by several dBs. Use symmetric layout. The distance of the ESL and the SW from the listener should not vary more than +/-0.5m.

CROSSOVER-AMP

The crossover/amplifier shall be connected like an ordinary power amplifier, after the preamplifier.

The level of the signal feeding the bass amplifier can be adjusted continuously by a trimmer adjustments at the back of the unit. The adjustment range is +/- 10dB for both channels separately. The adjustments have been set to default values at the factory. Once found the correct balance, there is little need for further adjustments.

If one wish to drive the Quad ESL with an external power amplifier, line level output is available for the purpose.

Speaker connectors are four pole Neutrik Speakons. Pins are connected in the following way:

Pin 1+ = SW +

Pin 1- = SW -

Pin 2+ = ESL +

Pin 2- = ESL -

TECHINCAL SPECIFICATIONS

Output power	240 W/Channel
Input impedance	40 kohm
Output impedance	100 ohm
Bass level adjustement	+/- 10 dB
Crossover frequency	110 Hz
Dimensions (WHD)	465 x 60 x 412 mm
Weight	5 kg
AC Mains	110-250VAC, automatic detection



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