



1. Connections

The subwoofer is provided with both line level inputs via a pair of phono connectors and hi-level (speaker level) inputs on a pair of binding posts. Only one type of input should be used at any one time. The rear panel also features the mains power input, voltage selector, fuse, remote trigger input and standby indicator LED. The rear panel input connections are shown in Fig. 1 below:

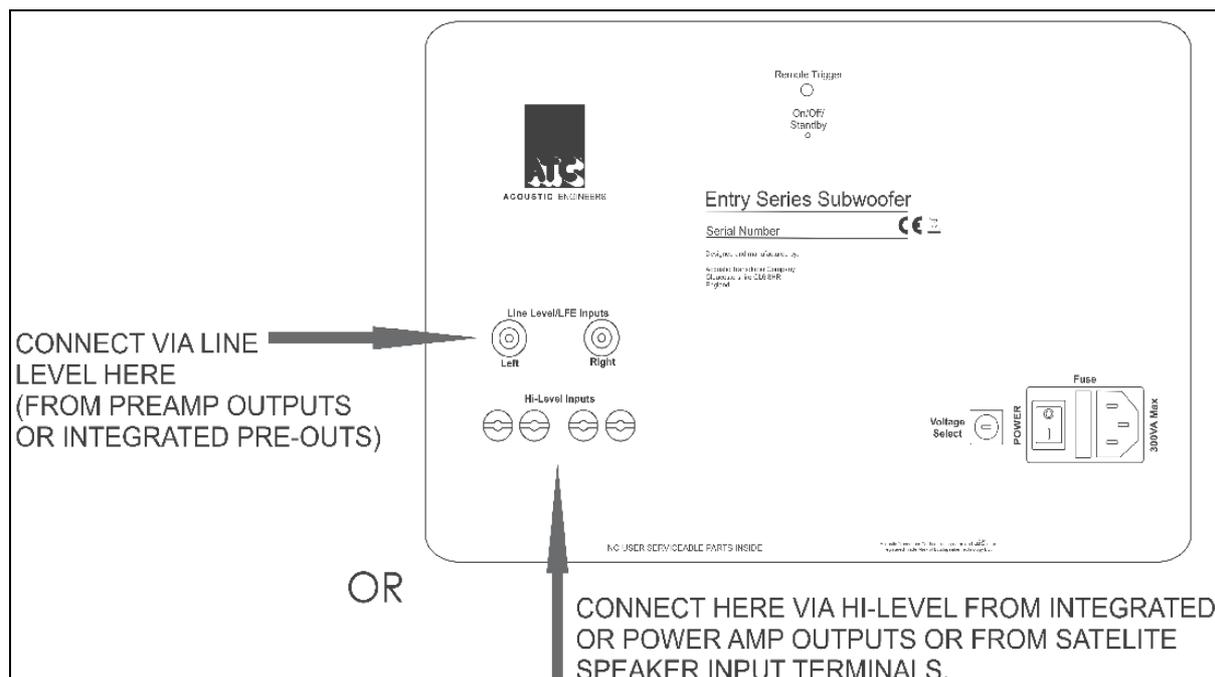


Fig. 1. Rear Panel

Audio Input Options

Line Level Inputs: These should be used to connect your subwoofer to preamp outputs or integrated amplifier preamp outputs. For stereo use, use both connections. In a 5.1 system, only connect to one input. Either left or right is fine and will give the same results.

Hi-Level Inputs: These should be used to connect your subwoofer directly to a stereo pair of speakers, either via the amplifier outputs or the loudspeaker input terminals themselves. Take care to maintain correct polarity throughout.

Control Input

The subwoofer is also provided with a trigger input on 3.5mm mini-jack so the subwoofer can be remotely powered up. The 'tip' pin of the mini jack should be connected to trigger signal and the 'ring' to ground.

2. Functions/Settings

All functions/settings on the C1 Sub are controlled via a rotary encoder on the front display panel of the unit and shown in Fig.2 or by the supplied IR remote control. Pushing the encoder knob cycles through the settings and turning the knob clockwise/anticlockwise increases/decreases the function value respectively. From the IR remote, Left/Right cycles through the settings and Up/Down increases/decreases the function value respectively. Below is an explanation of the functions/settings.

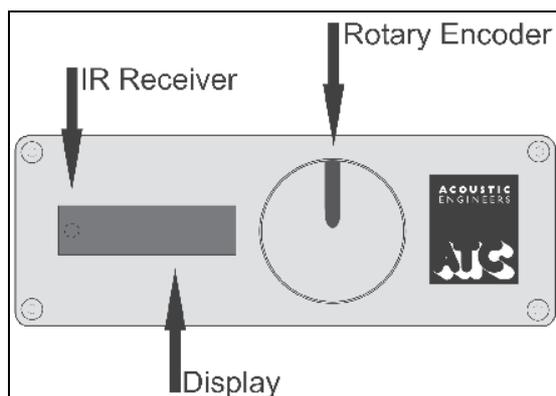


Fig. 2 Front Display and Encoder Panel

Level – Shown by ‘L’ on the front display:

Sets the overall input sensitivity of the subwoofer. Initially the level should be set towards the centre of its range (50) and only adjusted once the upper filter cut-off frequency has been set.

Filter Frequency – Shown by ‘Fr’ on the front display panel:

Varies the upper low-pass crossover frequency. The filter frequency is the fundamental parameter that defines how the subwoofer integrates with the satellite/main loudspeakers. The filter frequency should be set at, or just above the cut-off frequency of the satellite/main loudspeakers. To the right is a table of recommended *initial* filter settings for the C1 Sub when used with ATC satellite/main loudspeakers.

Stereo Loudspeaker Model	Recommended Initial Sub Filter Setting
SCM7	60
SCM11	56
SCM19	54
SCM40	48

Phase – Shown by ‘Ph’ on the front display panel:

Changes the phase of the acoustic output signal with reference to the input signal. This can be used to improve the integration of the sub – satellite/main loudspeakers by correcting for phase problems due to different distances from listener to sub and satellite/main loudspeakers. This can be set by listening to well known material and choosing the preferred setting or, by using a test tone. If using the test tone method, select a tone at, or very close to the sub-satellite crossover frequency and play it back through the sub and satellite loudspeakers. Flip the phase setting and listen to which gives the highest total output. Alternatively, a sound level meter could be used to measure the level.

Display Brightness – Shown by ‘Br’ on the front panel display

Varies the brightness of the front panel display, a higher number leading to a brighter display.

Display On/Off – Shown by ‘Sc’ on the front panel display

The following options are available from this menu:

- 0 The display stays lit all the time
- 1 The display stays lit all the time, at the users selected brightness level, and then automatically changes to minimum brightness after 30 seconds.
- 2 The display stays lit, at the users selected brightness setting for 30 seconds then turns off.

Note: Quality and level of low frequency sounds can vary enormously in different areas of a typical room. It is preferable to listen/measure at in more than one location in order to achieve the optimum setup unless the listening area is very small.

3. Specifications:

Drive Unit:	12"/314mm
Frequency Response(-6dB):	20Hz – 250Hz
Max SPL:	103dB
Amplifier Power Output:	200W
Line Level Inputs:	2 x(Stereo) Via Phono Connectors
Hi-Level (Speaker) Inputs:	2x(Stereo) Pairs Via Binding Posts
Trigger Input:	1x 12v
Mains Voltage:	230v/115v 50/60Hz
Mains Fuse:	3.15A (230V) 6.3A (115V)
Dimensions (HxWxD):	450x358x358mm
Weight:	20kg