

## DEFINITION DC HOME THEATRE 5.1 - GENERAL INFORMATION

Unlike other forms of encoded surround audio, 5.1 offers full bandwidth capability for the surround and centre channels, with the ability to treat the subwoofer as a single discreet channel for special effects playback or, for music applications, as a dedicated low frequency instrument channel. This places new demands on the surround and centre channel loudspeakers in both the mixing environment and the playback environment.

The 5.1 format allows the mix engineer in the recording studio to assign audio information to one or more discreet channels of playback; providing very vivid and exacting localisation for the apparent sound sources in the listening environment. To reliably recreate that accurate localisation during playback, the selection and location of loudspeakers becomes the single most critical issue next to the talent of the mix engineer in the studio.

(See fig.1)

## THE SYSTEM

A fully operational 5.1 system consists of two main front loudspeakers, two rear effects speakers at the rear (usually wall mounted) and a centre channel. The subwoofer provides the .1 part of the system.

Total design compatibility, ensuring all models share the same acoustical balance and dispersion characteristics, means that it is essential that an Definition A/V system is built around only Definition Dual Concentric™ models (it is not possible to mix in products with other driver types) as the acoustic integration of each has been optimised only for use as a complete system.

In Home Theatre applications this acoustic benefit provides a very focussed soundstage retaining natural voicing and ensuring that aural effects and speech localisation 'pan' from left to right and front to rear seamlessly.

## SCREENING

The large magnet assemblies on the loudspeaker drive units of the centre channel are fully screened to eliminate colour-fringing effects when mounted close to CRT television monitors. However, some very sensitive CRT televisions may show picture distortion. If that is the case, move the loudspeaker further away from television.

## FRONT SPEAKERS

The ultra wide dynamic range and power handling capability of Definition loudspeakers will provide a stunning home cinema experience. The speakers should be positioned on either side of the TV or projection screen and then placed in line with the screen surface.

## CENTRE CHANNEL SPEAKER

In all cases the centre channel speaker should be positioned as near to the TV screen as possible. The viewing position when seated determines the ideal mounting height, but in all cases this should be as close as possible to ear height. As with the main speakers the front baffle panel should be as near as possible in line with the screen surface.

The Definition centre channel can be wired in single wire, bi-wire or bi-amp modes. Please refer to figs. 2, 3 & 4 for connection guidance bearing in mind that connection should be made to the dedicated centre channel output on your A/V processor amplifier/s.

### Warning:

**Ensure that the chosen support platform is strong and stable enough to take the weight of the Definition DC6 LCR. It is not recommended that speaker be balanced on top of the tv or plasma screen.**

## REAR EFFECTS SPEAKERS

The integrity of the special effects soundstage created by the source material will be compromised if the speakers are installed on the sidewalls, for that reason they should always be placed behind the main viewing position. The placement of floor standing or stand mounted speakers at the rear should mirror as near as possible the location of the front pair and 0.5 metres (20 inches) from the rear wall.

## SUBWOOFER

As the subwoofer only produces low frequency, therefore monaural information, it is difficult to detect its location by ear. It could as a result be situated anywhere in the room, but optimum performance will be gained by locating the subwoofer between the main stereo pair of speakers. Bass output will increase when placed next to a wall or in a corner so use the subwoofer volume control to balance the output with the rest of the system.

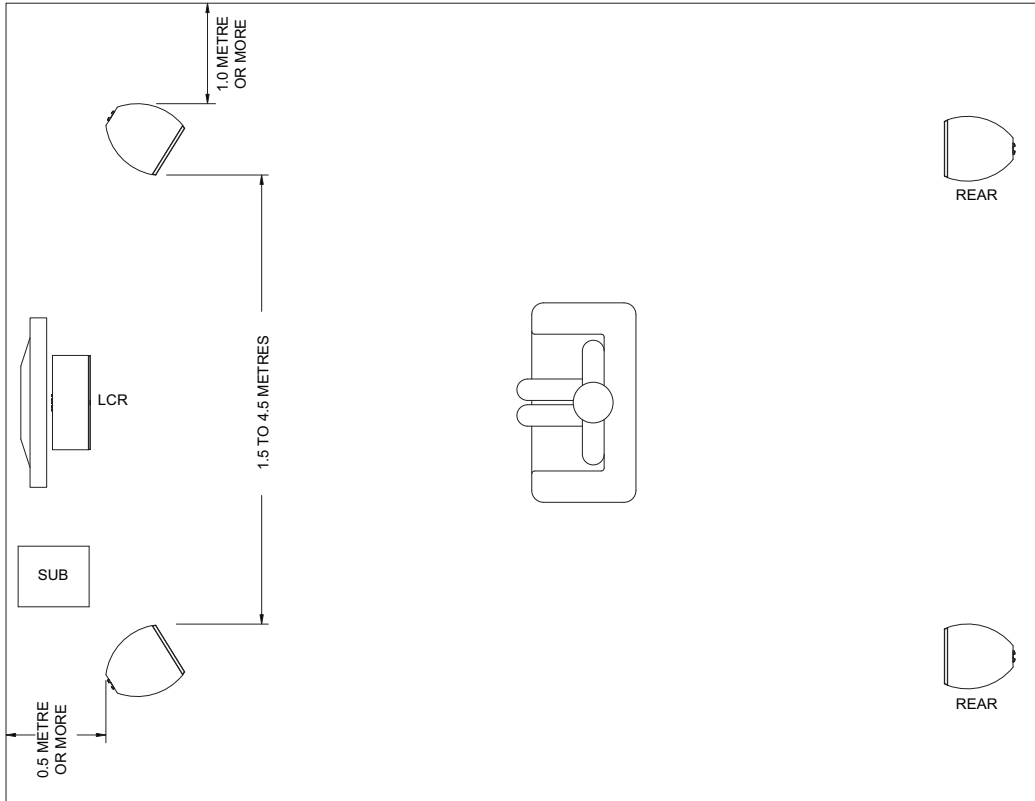
**Please refer to the manual supplied with the subwoofer for advice on installation and set-up.**

## TECHNICAL SPECIFICATIONS

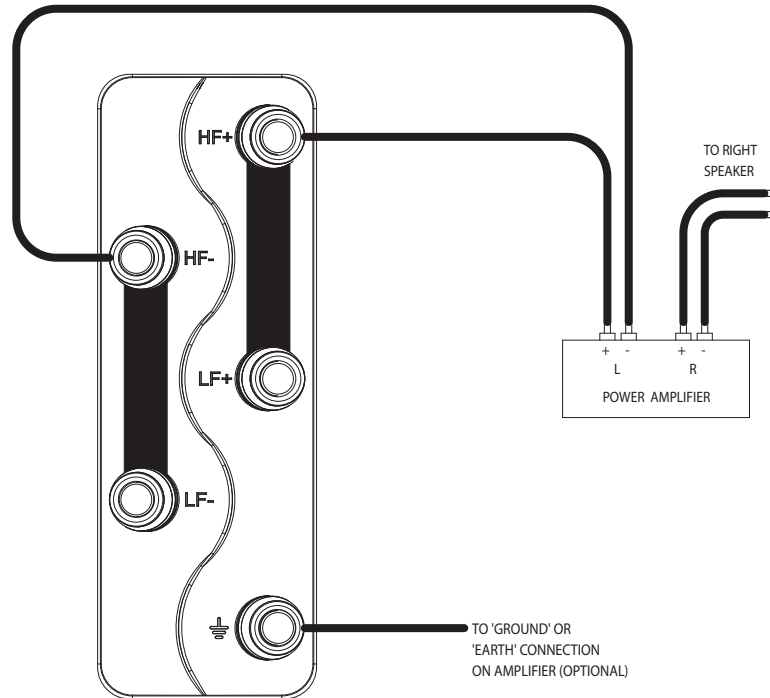
	<b>DC6 LCR</b>
<b>PERFORMANCE</b>	
<b>Recommended amplifier power</b> (Watts RMS)	20 – 175
<b>Continuous power handling</b> (Watts RMS)	87
<b>Peak power handling</b> (Watts)	350
<b>Sensitivity</b> (2.83 Volts @ 1m)	89dB
<b>Nominal Impedance</b> (Ohms)	8
<b>Frequency response</b> (-6dB)	35Hz – 35kHz
<b>Dispersion</b> (degrees conical)	90
<b>DRIVE UNITS</b>	
<b>Dual Concentric™ high frequency</b>	25mm (1") Titanium dome with Tulip WaveGuide™
<b>Dual Concentric™ low frequency</b>	150mm (6") treated paper pulp cone with rubber surround. 44mm (1.75") edge wound voice coil
<b>Bass Driver</b>	150mm (6") treated paper pulp cone with Rubber surround. 44mm (1.75") Wound voice coil
<b>Passive Radiator</b>	150mm (6") treated paper pulp cone with Rubber surround.
<b>Magnetic Screening</b>	Yes
<b>CROSSOVER</b>	
<b>Crossover frequency</b>	1.7kHz
<b>Crossover Type</b>	Passive low loss 2nd order LF, 1st order HF Deep Cryogenically Treated
<b>CONSTRUCTION</b>	
<b>Enclosure type</b>	Passive Radiator ported
<b>Volume</b>	19.7L (0.63 cu. ft.)
<b>Dimensions (H x W x D)</b> excl grille	226 x 600 x 285mm (8.90 x 23.62 x 8.46")
<b>Weight</b>	11.9kg (26.2lbs)
<b>Finish</b>	High gloss black High gloss cherry High gloss dark walnut

**SET-UP DIAGRAMS**

**Fig.1 Recommended Positioning - Home Cinema**



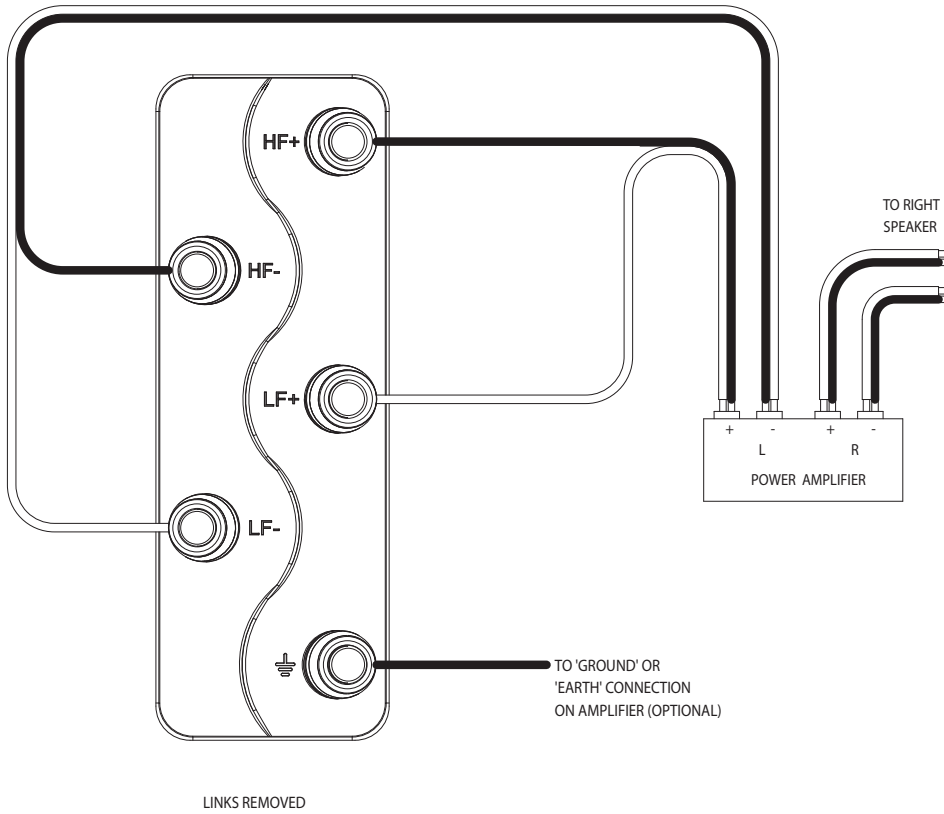
**Fig.2 Single Wire Mode**



LINKS IN PLACE

# SET-UP DIAGRAMS

### Fig 3 Bi-Wire Mode



### Fig 4 Bi-Amp Mode

