

The MonoPulse Model SA - Active

Design objective. MonoPulse loudspeakers have the primary objective of realism and holographic imaging. This is done by millimetre synchronism of the impulses and musical leading edges in sounds.

The Model SA is also a top quality active hi-fi loudspeaker in all other respects. The LF features 160mm 25Hz bass units with 250 watts power handling, and the 28mm silk-domed HF units operate through to 22kHz. These are combined with an integral and matched 150 watt class D amplifier.

Description. For its realism, MonoPulse uses a unique technique. Patented asymmetric crossovers use only film capacitors and air-spaced coils. These are coupled to drive-units positioned to the millimetre.

The HF units have fourth-order circuits, ensuring a minimum crossover span, and 24dB per octave attenuation from 3.5kHz. The LF units are directly connected, avoiding crossover distortions.

The bass response of the Kevlar-coned LF units, in generous box volumes, are extended with a reflex tuning point at 39Hz, giving an in-room response down to 25Hz.

Spikes. The Model SA is rear ported, so the need for spikes depends on the flooring. Where chosen, say for soft carpet, put them fully in, then adjust by unscrewing. For hard surfaces, such as stone, Blutack is more suitable. Nylon "spikes" with rounded ends can also be supplied as a half-way.

For initial positioning trials, it is easiest just to stabilise on the floor.

Positioning for bass. The LF unit is 75cm from the floor. Try to avoid the speakers being 75cm from side or rear walls - if possible make these one greater and one less. Close to one wall is OK.

Few speakers are able to be sited ideally, so this is a guide to doing the best. If there is unwanted bass emphasis, we supply (FOC) bass damping tubes to be fitted in the bass ports.

Position and imaging. A normal placement is with the units about 2.5 metres apart, at a listening distance of about 3 metres. MonoPulse will also give excellent imaging with the units further apart or closer in than normal. This can be useful if there are problems in small rooms.

Adjustment for listening height. The focus of impulse synchronism is at a listening height of 90cm - perfect for a low sofa or chair. For other positions, adjustment can be made by tilting the units for exact acoustic focus. 7.5mm front/rear spike difference, changes the focus up/down by 10cm at 3 metres out.

Connections and HF adjustment. Use only the upper terminals. Fit 4mm plugs, 7mm spades, or 5mm wire. If reduced top-end HF is preferred, for higher volumes and/or for sonically livelier furnishing, remove the connecting bar. **Do not connect to the lower terminal.**

If connected from an external amplifier, the Model SA will perform as a normal Model S

Specifications.

Speaker - Impedance, 8 ohms. Power, 250 watts maximum, 125 watts continuous. Sensitivity 90dB

Amplifier - Power @ 8 ohms, 150 watts maximum, 70 watts continuous

Size - Height 100cm. Width 20cm (base 26cm). Depth 20cm. (base 26cm) Weight 14Kg per unit.