

# SILVER 5L/BH

THE "TRUE" CLOSEFIELD MONITOR

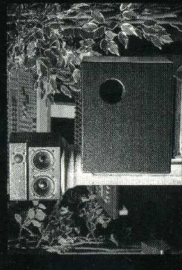


SILVER

TECHNOLOGY  
CORRECTLY APPLIED



ACTUAL SIZE

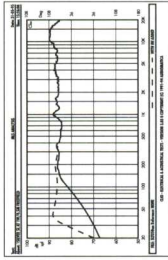


Closefield Monitor

# SILVER 5L/BH

## FLAT FREQUENCY

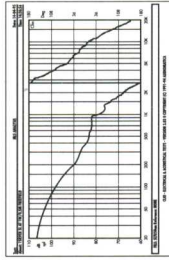
Silver 5Ls have optimised frequency responses to within  $\pm 2$ dB accuracy achieved with the RWR\* computer programme. With the option of the BH Bass Augmentor they will reproduce a frequency response from below 20Hz to beyond 20kHz with very low colouration, smoothly, within closefield distances.



*\*Real World Response System™ is a computer simulation programme designed by Silver which predicts the response of systems in reverberant environment and correctly interfaces with the human ear.*

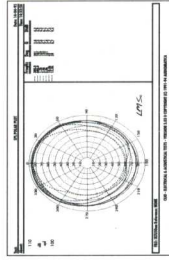
## LINER PHASE

The term "Phase" is often misunderstood. Phase is not something that is only relevant to a speaker being either in or out of phase but a very complicated criteria that governs how a speaker system will behave and be perceived when it is operated with multi drivers and complicated cross-overs. Needless to say, the Silver 5Ls exhibit an exemplary linear phase response kept to a narrow field.



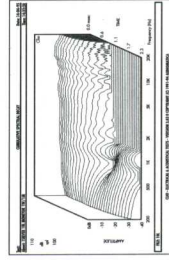
## EVEN POLAR RESPONSE

It is important that a monitor radiates sound evenly throughout its entire frequency range and this becomes crucial at closefield distances. Silver 5Ls exhibit a true cardioid response, evenly, at all frequencies allowing the monitors to have wide dispersion characteristics. This ensures an extensive listening area for accurate monitoring.



## TIME ALIGNED

Unlike other monitors, closefield monitors present a big problem. Drivers on a flat baffle (woofer, tweeter etc.) radiate sound from different acoustic centres, reaching the listener at different times. This is not so serious at mid and farfield monitoring distances but at closefield, this time domain will cause serious errors in monitoring balance. Silver 5L drivers are placed on a special baffle with true acoustical alignments.



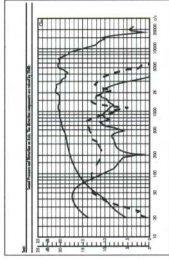
## FAST

Digital audio is capable of reproducing transients with great accuracy and require monitors to respond as quickly to the signal without compression, often a failing of badly damped monitors with less than ideal drivers. Using the latest technology and computer simulation techniques, Silver 5L monitors are one of the fastest in the world, ready for any further advancement in digital sound technology.

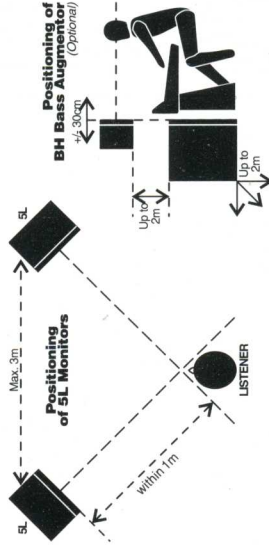


## LOW DISTORTION

If a monitor has inherent distortion built in, it will never be possible to distinguish how much extra distortion is being added to a mix. By using mid/bass drivers with magnesium chassis, polypropylene cones with excellent damping qualities, tweeters with the high power Neodymium magnet, coated fabric domes and coils immersed in magnetic fluid, ensures that the SILVER5L monitors exhibit very low distortion figures.



## CLOSEFIELD



This technique is used to minimise the adverse effects of the room acoustics where the monitoring takes place. Due to the short signal path, the direct sound will reach the engineer much sooner than the reflected sound from the room, thereby making it possible to ignore the detrimental acoustical problems of the room.

The 5L system is extremely versatile. The optional BH Bass Augmentor can be placed anywhere within a metre distance to extend the bass response of the 5Ls without affecting their closefield operation. The 5L/BH is a true closefield monitor system specially designed to give extremely accurate results in closefield use.

## TECHNICAL SPECIFICATIONS

**Sensitivity:** 87dB at one metre at 2.83 Volts (1Watt at 8 ohms).  
**Power Handling:** 150 Watts nominal music power (i.e. it can be used safely with 150 Watts per channel power amplifiers as long as amplifier clipping is avoided).  
**Listening Window:** 60 ( $\pm 30$ ) degrees horizontal, 30 ( $\pm 5$ ) degrees vertical (ear level at tweeter axis).

## TRANSDUCERS

**High Frequency Driver:** 25mm (1"), very low mass coated fabric dome, ferro-fluid cooled, high energy "Neodymium" magnet, glass reinforced moulded fibre chassis; connected via 2400Hz, 12dB/oct, passive high-pass network, forming an acoustic 24dB/oct Linkwitz-Riley (LR-4) filter.

**Mid Frequency Driver:** 115mm (4.5"), controlled break-up polypropylene cone with phase plug, magnesium injected moulded chassis; 2400Hz, 12dB/oct, passive low-pass network, forming an acoustic 24dB/oct Linkwitz-Riley (LR-4) filter; no high-pass filter is used for increased cone damping at the low end (there are no capacitors in series with the driver and amplifier).

**Diffraction Booster:** 115mm (4.5"), same specifications with the mid-frequency driver; passive low-pass network to cancel the effect of small front panel by boosting low frequencies starting from around 400Hz below (the slope is the reciprocal of 4π to 2π change over slope).

**Low Frequency Driver:** 250mm (10"), paper cone (doped), rubber surround, injected moulded magnesium chassis that acts on a 2nd order band-pass filter together with the low-pass type box.

## BOXES

**SILVER5L (Satellite):** Heavily damped non-vibrating MDF box; two separate, low leakage closed cavity loading for the drivers; two-plane front panel for time aligning the drivers.

**SILVERBH (Bass Augmentor):** Heavily damped MDF box; twin-cavity design for efficient band-pass loading of the driver; critically calculated port design for nearly non-existent turbulence induced parasitic output.

## NET MEASUREMENTS (W x D x H, Wt.)

**Satellite:** 26 x 17.5 x 21cm (10" x 7" x 8 1/2"), 6kg  
**Bass Augmentor:** 410 x 330 x 330mm (16 1/2" x 13 1/2" x 13 1/2"), 1.4kg

AVAILABLE FROM: