Screen 4P
Three-way passive system

features
- Three-way design
- Very low distortion mid-range
- High SPL
- 90° x 40° dispersion

applications
- Behind screen placement
- Medium scale cinemas

The Screen 4P is a 3-way system, with dedicated mid-range and high frequency sections. Developed by Martin Audio systems designers, this innovative solution overcomes the strenuous demands on the high frequency section of traditional 2-way cinema systems. By splitting the frequency band from 630Hz-20kHz into dedicated mid-range and high frequency sections the Screen 4P produces superior, low distortion sound for small/medium scale cinema environments.

The bass enclosure, with twin 15" (380mm) high power reflex loaded bass drivers, is designed in a shallow format for behind-the-screen placement. The bracket mounted compound MF/HF horn section can be easily adjusted and aimed for optimum audience reception.

Exceptionally smooth, flat sound in front of the screen and astonishingly high SPL's are produced via the innovative combined mid and HF horn which operates above 630Hz, avoiding the distortion associated with traditional large format compression drivers. The mid-range horn operates from 630Hz-3kHz and features a special 6.5" (165mm) treated cone drive unit mounted on a 90° x 40° horn with a unique ‘phase-ball’ loading device, which exhibits exemplary pattern control to minimise seat to seat variation. The constant Q high frequency horn, utilising a 1" (25mm) compression driver operating from 3kHz-20kHz, exactly matches the coverage pattern of the mid horn.

An internal passive network provides 630Hz and 3kHz crossover points and ensures smooth transition between the loudspeaker elements.
Screen 4P
Three-way passive system

overall dimensions

SCREEN 4P
The loudspeaker system shall be of the three-way passive type supplied in two separate sections. The bass section shall consist of two 15" (380mm) direct radiating reflex loaded low frequency transducers in a shallow profile enclosure. The compound horn section shall consist of one 6.5" (165mm) mid frequency transducer mounted on a 90° x 40° horn with a 'phase-ball' loading device and one 1" (25mm) exit HF compression driver mounted on a 90° x 40° constant directivity horn. The low and mid frequency sections shall be integrated by an internal 630Hz passive crossover network. The mid and high frequency sections shall be integrated by an internal 3kHz passive crossover network.

Performance of the loudspeaker system shall meet or exceed the following criteria:
- Frequency response measured 1 metre on axis shall be 45Hz-20kHz ±3dB.
- High frequency dispersion at -6dB points shall be 90°H x 40°V.
- Power handling shall be 800W AES, 3200W peak LF + MF + HF.
- Rated impedance shall be 4 ohms LF + MF + HF.
- Sensitivity 1 Watt/1 metre shall be 100dB LF + MF + HF.
- Dimensions LF: (W) 670mm x (H) 1010mm x (D) 470mm (26.4ins x (H) 39.8ins x (D) 18.5ins)
- MF/HF: (W) 490mm x (H) 385mm x (D) 290mm (19.3ins x (H) 15.1ins x (D) 11.4ins).
- Weight LF: 63.8kg (140.4lbs) MF/HF: 9kg (19.8lbs).

The loudspeaker system shall be the Martin Audio Screen 4P.