

ARCHITECTS' & ENGINEERS' SPECIFICATIONS

High Power Asymmetrical Two-way Full-range Speaker System

IF2112/AS (W)

The bi-amplified 2-way full range loudspeaker system shall incorporate 12-inch LF vented transducers with 4-inch voice coil and a 1.4-inch-exit high frequency 3-inch compression driver mounted to a constant directivity horn. The HF horn shall be capable of being rotated to accommodate horizontal or vertical installation. System frequency response shall vary no more than +/-3 dB from 70 Hz to 20 kHz measured on axis. At the passive mode, the loudspeaker shall produce a Sound Pressure Level (SPL) of 96 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a continuous output of 124 dB SPL and a peak output of 130 dB SPL on axis at 1 meter. The loudspeaker shall handle 600 Watts of amplifier power (2 hrs, IEC noise) and shall have a nominal impedance of 8 Ohms. In bi-amplified mode, the high section shall produce a Sound Pressure Level (SPL) of 108 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a continuous output of 127 dB SPL and a peak output of 133 dB SPL on axis at 1 meter. The low frequency section shall produce a Sound Pressure Level (SPL) of 96 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a continuous output of 124 dB SPL and a peak output of 130 dB SPL on axis at 1 meter. The high frequency section shall handle 110 Watts of amplifier power (AES) and shall have a nominal impedance of 8 Ohms. The low frequency section shall handle 700 Watts of amplifier power (AES) and shall have a nominal impedance of 8 Ohms. Horizontal coverage of 60°-100° between -6 dB points; Vertical coverage of 60° between -6 dB points. The loudspeaker enclosure shall be Multi-angle wedge in shape. It shall be constructed of 16 mm thick Finland birch plywood. It shall be finished in a black or white textured coating. Input connectors shall be parallel wired 2 x Neutrik NL4 and barrier strip. The loudspeaker shall have a selector switch on the rear panel that allows switching between bi-amp and single-amplifier drive modes. The loudspeaker shall have a pole mount socket and one handle for easy carrying. A total of 16 x M10 threaded mounting points shall be provided. An internal passive frequency dividing network shall provide a 2nd order acoustic crossover for low and high frequency subsystems. The front of the loudspeaker shall be covered with a powder coated perforated steel grill backed with open cell foam to protect against dust. The two-way full range loudspeaker system shall be the YAMAHA IF2112/AS (W).