

PRODUCT PREVIEW
WS350
WALL MOUNTED
LOUDSPEAKER
Project 1166

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PROMOTIONAL HIGHLIGHTS

- Designed for **Low Distortion** Reproduction
- Deep Drawn Aluminum Enclosure
- Extruded Aluminum Mounting
- Five Tweeter **Bessel Function Array**
- Drivers with McIntosh Patented “LD/HP” Technology
- Shielded Magnetic Field
- White Primer Coat, Paint to Match Room Decor
- High Power Handling
- High Efficiency Design
- Three Way Design

FEATURES AND BENEFITS

DESIGNED FOR LOW DISTORTION

Many of today’s speakers are designed only for Home Theater applications. Not so with the WS350. It is designed for the reproduction of music.

Motion picture sound effects, explosions, screams, monsters crunching things and vehicle crashes require a wide dynamic range and high sound pressure levels. These sounds are so loaded with various forms of noise that a speaker system having moderate distortion would reproduce them with little audible difference.

Not so with music. Music is by nature and definition harmonious. Sometimes dynamic, but always harmonious. To reproduce it accurately, all forms of distortion, harmonic and intermodulation, must be held to a minimum. This has been the objective in the design of the new McIntosh WS350 loudspeaker system. Each driver and crossover component has been chosen for durability, efficiency, and above all, *low distortion*. **A low distortion system will reproduce everything accurately, sound effects and especially music.**

GOLD PLATED INPUT CONNECTORS

Gold plating is chosen because of superior corrosion resistance.

FIVE TWEETER BESSEL FUNCTION ARRAY

The WS350 utilizes five tweeters wired to produce a **Bessel Function Array**. The individual tweeter amplitudes and phase relationships are adjusted so that the array acts as a high frequency point source. One advantage of such an arrangement is a very smooth and even acoustic polar response. This allows the listener to move off axis without suffering a change in high frequency output. Also, the use of multiple tweeters, combined with a mechanical heat sink, greatly increases the power handling at high frequencies.

DEEP DRAWN ALUMINUM ENCLOSURE

The speakers are mounted in their own enclosure. The system is not dependent upon the wall cavity for proper acoustics.

PATENTED LD/HP TECHNOLOGY

The McIntosh drivers feature the patented LD/HP motor structure. This design utilizes shorting rings at both ends of the pole piece to extend and linearize the magnetic field around the voice coil. This reduces distortion by 10db or more. These rings also increase the power handling capacity of the speaker.

SHIELDED MAGNETIC FIELD

Many of the WS350s will be used in Home Theater installations on the left, center and right around a television receiver or monitor. Therefore McIntosh has provided shielding around the magnetic structure of the WS350 drivers. The speaker magnets will not interfere with picture quality.

PRIMER COAT

Frame and grill have a white primer coat applied and can be painted to match the room décor.

HIGH POWER HANDLING

The drivers and crossover components of the WS350 are all chosen for use with high power amplifiers, up to 350 watts.

HIGH EFFICIENCY

The drivers used in the WS350 speaker system have also been designed for high efficiency. This means that any McIntosh power amplifier, even our smallest, will provide sound pressure levels in excess of 100dB. An MC202 (200 watts) will provide a SPL of 109 dB.

THREE WAY DESIGN

The design consists of five 1" tweeters, one 4" midrange and one 8" woofer.

PERFORMANCE SPECIFICATIONS

Loudspeaker Specification

Model WS350

System Type: Sealed, 3 way

Impedance Nominal: 4 ohms

Magnetic Shielding: Yes, all drivers

Woofer: One 8"

Midrange: One 4"

Tweeter: Five 1" domes

Anechoic Response: 60 - 20 kHz \pm 2db

SPL, 2.8V/1m: 88dB

Crossover Frequency: 250Hz and 1.5 kHz

Dimensions: 24" H x 14" W x 4" D

Outside Surfaces: Extruded Aluminum Frame

Finish: White Primer Coat

Grille Color and Material: White Primer,
Perforated Metal

Weight (ea): 38 lbs. (boxed)

From the McIntosh Design Engineering Dept.

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