

McIntosh Laboratory, Inc., Binghamton, NY 13903
Design Engineering Department

PRODUCT PREVIEW

XRT28

LOUDSPEAKER SYSTEM

Project 1191

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PROMOTIONAL HIGHLIGHTS

- Designed for **Low Distortion** Reproduction
- Extruded Aluminum Housing
- Drivers with McIntosh Patented “**LD/HP**” Technology
- Shielded Magnetic Field
- Three Pairs of Gold Plated Binding Posts
- Mounting Foot Options
- High Power Handling
- High Efficiency Design
- Three Way Design
- Integrated Bass for Low Frequency Extension
- New McIntosh Column Design
- Superior Imaging
- Extended Excursion Midrange and Woofers
- Two Woofers, Twenty Midrange Drivers, Sixteen Soft Dome Tweeters
- Natural Cherry, Red Cherry or Black Ash Finishes

FEATURES AND BENEFITS

DESIGNED FOR LOW DISTORTION

Many of today’s speakers are designed only for Home Theater applications. Not so with the XRT28. It is designed for the reproduction of music.

Motion picture sound effects, explosions, screams, 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.

This is not true with the reproduction of 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 XRT28 loudspeaker system. Each driver and crossover component has been carefully designed for durability, efficiency, and above all, low distortion. **A low distortion system will reproduce everything accurately, sound effects and especially music.**

EXTRUDED ALUMINUM CONSTRUCTION

An extruded aluminum channel with solid aluminum end plates forms the body of the column. This creates an extremely strong and durable enclosure. High power amplifiers cannot cause the sides to flutter and distort the sound. McIntosh black glass and solid wood trim pieces are added to the column to enhance the appearance.

THREE PAIRS OF GOLD PLATED BINDING POSTS

Three pairs are on the column. Separate terminals allow for bi-amping or tri-amping. Gold plating is chosen because of superior corrosion resistance.

PATENTED LD/HP TECHNOLOGY

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

SHIELDED MAGNETIC FIELD

Many of the XRT28s will be used in Home Theater installations on the left and right side of a television receiver or monitor. Therefore McIntosh has provided Neodymium magnets and shielding around the magnetic structure of the XRT28 drivers. The speaker magnets will not interfere with picture quality.

LOW FREQUENCY BASS CROSSOVER

The bass crossover frequency is 300Hz. This leaves the more directional sounds, such as vocals, with the proper image.

MOUNTING FOOT OPTIONS

Both furniture glides and "Tiptoes" are provided. They adjust individually and have locking nuts to accommodate uneven floors.

WOOD FINISH

The customer has his choice of three superb wood finishes natural cherry, red cherry or black ash. Exotic woods and finishes are also available on special order.

HIGH POWER HANDLING

The drivers and crossover components of the XRT28 are all chosen for use with high power amplifiers, up to 1200 watts. Multiple drivers, 2 woofers, 20 midrange and 16 tweeters, greatly increase the power handling of the system. Poly switches are put in series with each section. They prevent possible damage from excessive power.

HIGH EFFICIENCY

The drivers used in the XRT28 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 at 1 meter. The MC1201 amplifier can provide SPL peaks of 120 dB at 3 meters.

THREE WAY DESIGN

The design consists of, two 10" extended excursion woofers, twenty 4" extended excursion midranges and sixteen 1" soft dome tweeters.

NEW McINTOSH COLUMN DESIGN

Three parallel columns, two 4" midrange, separated by a 1" tweeter column, limit early floor and ceiling reflections as in traditional McIntosh designs.

SUPERIOR IMAGING

Placing the 1" tweeter column between two 4" midrange columns produces a symmetrical horizontal polar response for superior imaging.

EXTENDED EXCURSION LD/HP MIDRANGE AND WOOFERS

EXTENDED EXCURSION LD/HP midrange and woofer drivers have superior low frequency response and distortion. The EXTENDED EXCURSION takes the 4" driver response down to 300 Hz and the two 10" woofers down to 16 Hz at high power levels.

PERFORMANCE SPECIFICATIONS**Model XRT30**

System Type: Sealed, 3 way
 Impedance Nominal: 4 ohms
 Magnetic Shielding: Yes, all drivers
 Woofers: two 10" Extended Excursion LD/HP
 Midrange: twenty 4" Extended Excursion LD/HP
 Tweeter: sixteen 1" soft domes
 Anechoic Response: 16Hz - 20 kHz
 SPL, 2.8V/1m: 88dB
 Crossover Frequencies: 300 Hz & 2 kHz
 Dimensions, Column: 76-1/8" H x 16-3/8" W x 16-3/8" D
 Aluminum Surfaces: Black Satin Powder Coat
 Trim Surfaces: Solid Wood
 Finish: Natural Cherry, Red Cherry and Black Ash
 Grille Material: Black, Knit Cloth
 Weight, Column (ea.): 124 lbs.

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