Of all audio components, the loudspeaker may seem the least complex. Yet the many trade-offs in loudspeaker design – the give and take between drivers, crossovers, and cabinet volume – call for well-informed subjectivity. McIntosh has been selling loudspeakers since 1970. Make that manufacturing loudspeakers, as fewer and fewer speaker companies actually build or even design what they sell. As a company fixated on musical fidelity, McIntosh is uniquely qualified to make the subjective judgments necessary to create truly musical loudspeakers.

The new Academy Series results from the most ambitious speaker development project in McIntosh history. Never have McIntosh speakers and electronics enjoyed such harmony of quality, performance, and purpose.

The popularity of home theaters has had a dramatic effect on the speaker market. Amid confusion over how many speakers to buy and where to place them is a lingering question: Does a good “music” loudspeaker make a good “theater” speaker, and vice versa?

With the Academy Series loudspeakers, the answers are “yes” and “yes.” Because from the very beginning the Academy models have been designed for low-distortion performance, thanks to patented LD/HP® drivers and unique arched bridge truss cabinet construction. Music benefits from smooth, extended response without the coloration and fuzzy imaging caused by driver distortion and cabinet vibrations. Movie sound benefits from high power handling and fast, clean dynamic response from the high-output LD/HP drivers.

The Academy speakers are a true family, sharing a common tonal quality that allows for great configuration flexibility. Virtually any combination of speakers can be used in multichannel applications.

High-end loudspeakers in particular are often characterized by just one aspect of their performance. It could be bass response, treble transparency, depth of image, cosmetic appearance, or even price. In all of its products, however, McIntosh seeks balance, and so is the case with speakers. The Academy models certainly have an extremely smooth and broad frequency response, and they do “measure” well in front of a microphone and spectrum analyzer. But in the final analysis, they are distinguished by their sheer musicality, which can only be measured by listening.

The non-parallel, arched sides of the Academy Series cabinets help eliminate resonances and reflections that disrupt a smooth frequency response. The sides are made from several layers of MDF and wood, laminated together for strength. Within the graceful arch shape, internal trusses create an extremely strong and durable cabinet virtually immune to flutter and vibrations that distort sound. Academy Series drivers and crossovers are designed for high efficiency as well as high power handling. For example, the smallest Academy model – the LS320 – will provide a sound pressure level in excess of 100dB using McIntosh’s smallest power amplifier. Shielding around the drivers allows safe placement near video monitors and TV sets.

Academy speakers deliver the ultra-realistic dynamics of today’s digital movie sound. Yet in contrast to most so-called “theater” loudspeakers, they also possess the musicality demanded by critical music listeners.

While you can choose virtually any combination of Academy speakers for a surround-sound theater or listening room, McIntosh dealers will typically recommend one of four Academy Systems. Each system has one or more alternative model choices and expansion options. Chances are that at least one system will match your needs based on the type of system you own, your budget, and the parameters of your theater or listening room.
**LD/HP® Drivers**
In a LD/HP driver, a pair of aluminum shorting sleeves makes the magnetic field more symmetrical and reduces distortion. The sleeves also lower the impedance of the voice coil, permitting greater current flow and hence higher output levels.

**Arched Cabinet Sides**
The arch shape creates non-parallel sides, preventing internal resonances that muddy the sound.

**Internal Trusses**
Cross-braces span the entire length of the arched sides, creating an extremely rigid cabinet structure that virtually silences unwanted vibrations.

**Precision Crossovers**
Designing the optimal crossover for any speaker is a challenge. To do so for several and make them sound like a true family is more like an art. And this is exactly what McIntosh has done.

**Bessel Function Tweeter Array**
In the LS360 and CS350 the individual tweeter amplitudes and phase relationships are adjusted so that the array acts as a high frequency point source with a broad dispersion pattern. The array also greatly increases power handling for high frequencies.

**Hand-Crafted Drivers**
Woofer and midrange cones are constructed of polypropylene, which has a high stiffness-to-mass ratio and good damping properties. Rubber surrounds ensure linear cone excursion, and like the cones are immune to decay. Drivers are mounted in proprietary die-cast aluminum frames and undergo rigorous tests in McIntosh’s anechoic chamber.

**Flared Ports**
The ports in the LS360, LS340, and PS112 have flares at both ends to minimize air noise with high levels of bass.
**HT-5**

The HT-5 is a compact, high-performance three-way speaker ideal for use in home theaters. In addition to the acclaimed LD/HP® drivers – which significantly reduce bass distortion while increasing power handling – the HT-5 features a special tweeter mounting that all but eliminates edge diffraction cancellation of specific high frequencies. Perfect for L/C/R and surround-channel use, the efficient HT-5 has a footprint less than ten inches square.

*Black Ash finish.*

**PS112**

What do you get when you put 400 McIntosh watts and a McIntosh 12-inch long-throw woofer into an enclosure with monumental rigidity? Deep, clean, glorious bass. And lots of it. The PS112 is the most powerful amplified subwoofer ever produced by McIntosh. The PS112 delivers its punch through a 12-inch long-throw woofer featuring LD/HP® technology, which significantly reduces bass distortion. Features include variable low- and high-pass filters (40Hz to 120Hz), a two-position phase switch (0°, 180°), and a front-firing port. All controls and indicators are conveniently located on the beveled glass front panel.

*Natural Cherry, Red Cherry, and Black Ash (shown) finishes. Exotic woods and finishes available by special order.*
Academy System I

(3) HT-5 left, center, right • (2) HT-5 left & right surround • (1) PS112 subwoofer

Alternative: (1) HT12 passive subwoofer (available Spring 2001) • Expansion: (2) HT-5 back surround

**HT-5**
- Three-way, sealed cabinet
- Dual 6.5” woofer/mid
- 1” dome tweeter with a special low-diffraction mounting
- Black Ash finish

**PS112**
- Subwoofer, ported
- 12” woofer
- 400W McIntosh amplifier
- Beveled glass control panel
- Natural Cherry, Red Cherry, and Black Ash finishes

**HT12**
- Subwoofer, ported
- 12” woofer
- Black Ash finish
**LS320**

Although it’s one of the smallest loudspeakers ever crafted by McIntosh, the LS320 delivers full-bodied sound, thanks to its 8-inch LD/HP® woofer. The tweeter features a special low-diffraction mounting that reduces the “edge hole” effect – cancellation of certain frequencies caused by diffraction at the edge of the cabinet. As in all LS models, the tweeter is mounted on traditional McIntosh screened black glass. *Natural Cherry (shown), Red Cherry, and Black Ash finishes. Exotic woods and finishes available by special order.*

**WS320**

The WS320 is a high-performance, two-way in-wall speaker with an integral sealed aluminum enclosure. The sealed enclosure enables deep bass output from the 8-inch woofer while minimizing wall transmission into the listening room as well as adjoining rooms. The acclaimed LD/HP® driver significantly reduces bass distortion while increasing power handling.

At just four inches deep, the WS320 fits within any standard wall, its grille and frame extending just a half inch past flush. Finished in a white primer coat, the WS320 is designed to be painted to match the surrounding decor. Perfect for applications where space and style are primary considerations, the WS320 will be popular in home theaters as well as multiroom systems. In addition, its tonal qualities are carefully matched to those of the LS, CS, and HT models, making a variety of combinations possible.
Academy System II

(3) LS320 left, center, right • (2) LS320 left & right surround • (1) PS112 subwoofer
Alternatives: (1) HT-5 center • (2) WS320 left & right surround • (1) HT12 passive sub (available Spring 2001)
Expansion: (2) LS320 back surround • Expansion alternative: (2) WS320 back surround

**LS320**
- Two-way, sealed cabinet
- 8" woofer
- 1" dome tweeter with a special low-diffraction mounting
- Natural Cherry, Red Cherry, and Black Ash finishes

**HT-5**
- Three-way, sealed cabinet
- Dual 6.5" woofer/mid
- 1" dome tweeter with a special low-diffraction mounting
- Black Ash finish

**WS320**
- In-wall, two-way, sealed enclosure
- 8" woofer
- 1" dome tweeter
- Paintable white primer coat finish

**PS112**
- Subwoofer, ported
- 12" woofer
- 400W McIntosh amplifier
- Beveled glass control panel
- Natural Cherry, Red Cherry, and Black Ash finishes

**HT12**
- Subwoofer, ported
- 12" woofer
- Black Ash finish
LS340

Standing a little more than three feet tall, the elegant LS340 is a three-way design with dual 8-inch LD/HP® woofers. Like the LS320, its tweeter has a special low-diffraction mounting that reduces the “edge hole” effect – cancellation of certain frequencies caused by diffraction at the edge of the cabinet. The bass port is flared at both ends to form a natural horn and minimize air noise. As in all LS models, the tweeter is mounted on traditional McIntosh screened black glass. Natural Cherry (shown), Red Cherry, and Black Ash finishes. Exotic woods and finishes available by special order.

CS350

The CS350 is designed as the center speaker with any of the LS models. A clever stabilizer bar on the back prevents the cabinet from rocking when placed on its side, and is adjustable to provide a downward angle for placement above a video display.

Dialogue intelligibility and audience coverage are the two most critical performance criteria for a center-channel speaker. The CS350 features 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 with a broad dispersion pattern. In addition, the array greatly increases power handling for high frequencies. Natural Cherry, Red Cherry (shown), and Black Ash finishes. Exotic woods and finishes available by special order.
**Academy System III**

(2) LS340 left & right • (1) CS350 center • (2) WS320 left & right surround • (1) PS112 subwoofer

**Alternatives:** (2) LS320 left & right surround

**Expansion:** (2) LS320 back surround • Expansion alternative: (2) WS320 back surround

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**LS340**
- Three-way, ported
- Dual 8" woofers
- 6.5" midrange
- 1" dome tweeter with a special low-diffraction mounting
- Natural Cherry, Red Cherry, and Black Ash finishes

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**CS350**
- Three-way, sealed cabinet
- Dual 6.5" woofers
- 4" midrange
- Five 1" dome tweeters in a Bessel Function array
- Adjustable tilt bracket
- Natural Cherry, Red Cherry, and Black Ash finishes

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**WS320**
- In-wall, two-way, sealed enclosure
- 8" woofer
- 1" dome tweeter
- Paintable white primer coat finish

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**LS320**
- Two-way, sealed cabinet
- 8" woofer
- 1" dome tweeter with a special low-diffraction mounting
- Natural Cherry, Red Cherry, and Black Ash finishes

---

**PS112**
- Subwoofer, ported
- 12" woofer
- 400W McIntosh amplifier
- Beveled glass control panel
- Natural Cherry, Red Cherry, and Black Ash finishes

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**Graphics:**
- LS340 SUB
- LS340 LEFT
- CS350 CENTER
- LS340 RIGHT
- WS320 SURROUND
- LS320
- WS320 SURROUND
- LS320 BACK 1
- WS320 BACK 1
- WS320 BACK 2
At just more than four feet tall, the magnificent LS360 is the flagship of the Academy Series. Like the CS350, its five tweeters are 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 with a broad dispersion pattern. In addition, the array greatly increases power handling for high frequencies. Two 10-inch LD/HP® woofers and an 8-inch LD/HP® midrange round out the driver complement. The two bass ports are flared at both ends to form a natural horn and minimize air noise. The tweeters are mounted on traditional McIntosh screened black glass. Natural Cherry, Red Cherry, and Black Ash finishes. Exotic woods and finishes available by special order (Piano Black shown).

Why Choose McIntosh?
Consumer electronics products usually are viewed as short-term investments because they don’t last or they quickly become obsolete in some way. But behind every McIntosh is a fifty-year heritage of excellence, proudly carried forward by every employee. No production lines, no “price-point” engineering, no planned obsolescence. McIntosh equipment is made to sound better and last longer.

When customers are presented with McIntosh products, criteria they have been conditioned to overlook — reliability, longevity, craftsmanship, ease-of-use, adaptability, pride of ownership — suddenly leap to the top of their list. The choice then becomes clear: There is nothing like a McIntosh.
**Academy System IV**

(2) LS360 left & right • (1) CS350 center • (2) WS320 left & right surround
(2) LS320 back surround • (2) PS112 subwoofer
Alternatives: (2) LS320 left & right surround • (2) LS320 back surround

<table>
<thead>
<tr>
<th>LS360</th>
<th>CS350</th>
<th>WS320</th>
<th>PS112</th>
<th>LS320</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three-way, dual ports</td>
<td>Three-way, sealed cabinet</td>
<td>In-wall, two-way, sealed enclosure</td>
<td>Subwoofer, ported</td>
<td>Two-way, sealed cabinet</td>
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<tr>
<td>Dual 10&quot; woofers</td>
<td>Dual 6.5&quot; woofers</td>
<td>8&quot; woofer</td>
<td>12&quot; woofer</td>
<td>8&quot; woofer</td>
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<tr>
<td>8&quot; midrange</td>
<td>4&quot; midrange</td>
<td>8&quot; woofer</td>
<td>400W McIntosh amp</td>
<td>1&quot; dome tweeter</td>
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<tr>
<td>Five 1&quot; dome tweeters in a Bessel Function array</td>
<td>Five 1&quot; dome tweeters in a Bessel Function array</td>
<td>Paintable white primer coat finish</td>
<td>Beveled glass control panel</td>
<td>1&quot; dome tweeter with a special low-diffraction mounting</td>
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<tr>
<td>Natural Cherry, Red Cherry, and Black Ash finishes</td>
<td>Natural Cherry, Red Cherry, Natural Cherry, Red Cherry,</td>
<td>Natural Cherry, Red Cherry, and Black Ash finishes</td>
<td>Natural Cherry, Red Cherry, and Black Ash finishes</td>
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</tbody>
</table>

![Image of speaker system configurations]
### Specifications

**Dimensions include grille cover.**

<table>
<thead>
<tr>
<th>Model</th>
<th>Anechoic Response</th>
<th>Sensitivity (2.8V/1m)</th>
<th>Nominal Impedance</th>
<th>Drivers</th>
<th>Crossover Frequencies</th>
<th>Suggested Amp Power</th>
<th>Dimensions (h x w x d)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LS360 3-WAY</strong></td>
<td>29Hz to 20kHz, ±2dB</td>
<td>88dB</td>
<td>4 ohms</td>
<td>(2) 10&quot; LD/HP woofer (1) 8&quot; LD/HP mid (5) 1&quot; dome tweeters</td>
<td>200Hz, 1.5kHz</td>
<td>200 – 600 watts</td>
<td>inch: 49.25 x 13.5 x 17.38 cm: 125.1 x 34.3 x 44.1</td>
<td>176 lbs. (80kg) boxed ea.</td>
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<tr>
<td><strong>LS340 3-WAY</strong></td>
<td>48Hz to 20kHz, ±2dB</td>
<td>87dB</td>
<td>4 ohms</td>
<td>(2) 6.5&quot; LD/HP woofer (1) 6.5&quot; LD/HP mid (1) 1&quot; dome tweeter</td>
<td>250 Hz, 1.5 kHz</td>
<td>100 – 350 watts</td>
<td>inch: 40.25 x 10.25 x 17.38 cm: 102.2 x 26.0 x 44.1</td>
<td>110 lbs. (50kg) boxed ea.</td>
</tr>
<tr>
<td><strong>LS320 2-WAY</strong></td>
<td>60Hz to 20kHz, ±2dB</td>
<td>86dB</td>
<td>4 ohms</td>
<td>(1) 8&quot; LD/HP woofer/mid (1) 1&quot; dome tweeter</td>
<td>1.5 kHz</td>
<td>50 – 200 watts</td>
<td>inch: 17.0 x 10.25 x 10.625 cm: 43.2 x 26 x 27.0</td>
<td>33 lbs. (15.0kg) boxed ea.</td>
</tr>
<tr>
<td><strong>CS350 3-WAY</strong></td>
<td>80Hz to 20kHz, ±2dB</td>
<td>86dB</td>
<td>4 ohms</td>
<td>(2) 6.5&quot; LD/HP woofer/mid (1) 4&quot; LD/HP mid (5) 1&quot; dome tweeters</td>
<td>250 Hz, 1.5 kHz</td>
<td>100 – 350 watts</td>
<td>inch: 9.0 x 25.5 x 9.13 cm: 22.9 x 64.8 x 23.2</td>
<td>50 lbs. (22.7kg) boxed ea.</td>
</tr>
<tr>
<td><strong>HT-5 3-WAY</strong></td>
<td>80Hz to 20kHz, ±2dB</td>
<td>86dB</td>
<td>4 ohms</td>
<td>(2) 6.5&quot; LD/HP woofer/mid (1) 1&quot; dome tweeter</td>
<td>400Hz, 1500Hz</td>
<td>50 – 200 watts</td>
<td>inch: 20.5 x 9.25 x 9.0 cm: 52 x 23.5 x 22.9</td>
<td>38 lbs. (17.3kg) boxed ea.</td>
</tr>
<tr>
<td><strong>WS320 2-WAY IN-WALL</strong></td>
<td>60Hz to 20kHz, ±2dB</td>
<td>86dB</td>
<td>4 ohms</td>
<td>(1) 8&quot; LD/HP woofer/mid (1) 1&quot; dome tweeter</td>
<td>1.5 kHz</td>
<td>50 – 200 watts</td>
<td>inch: 23.5 x 14.0 x 3.65 cm: 59.7 x 35.6 x 9.3 (fully assembled)</td>
<td>30 lbs. (13.6kg) boxed ea.</td>
</tr>
<tr>
<td><strong>PS112 AMPLIFIED SUBWOOFER</strong></td>
<td>29Hz to 20kHz, ±2dB</td>
<td>88dB</td>
<td>4 ohms</td>
<td>(2) 10&quot; LD/HP woofer (1) 8&quot; LD/HP mid (5) 1&quot; dome tweeters</td>
<td>9V</td>
<td>3dB at 35Hz</td>
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<tr>
<td><strong>LEVEL CONTROL</strong></td>
<td>Variable level control</td>
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<tr>
<td><strong>LOW FREQUENCY BOOST</strong></td>
<td>3dB at 35Hz</td>
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<tr>
<td><strong>POWER CONTROL</strong></td>
<td>5 - 20VDC trigger (1/8&quot; mini-phone jack) or signal-sense (RCA) input, both with SVDC output (1/8&quot; mini-phone jack)</td>
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<tr>
<td><strong>ENCLOSURE</strong></td>
<td>Front-firing flared port design</td>
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<td><strong>MAXIMUM SPL</strong></td>
<td>115dB</td>
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**POWER AMPLIFIER**

- **Power Output**: 400 watts sine wave cont. power
- **Total Harmonic Distortion**: 0.03% maximum from 250mw to 400 watts
- **A-Weighted Hum and Noise**: 100dB below rated output
- **IHF Dynamic Headroom**: 1.1dB
- **Input Sensitivity**: 0.4V for rated output
- **Input Impedance**: 15k ohms

**LEVEL CONTROL**

- **Maximum Input Signal**: 9V
- **Power Guard**: Clipping is prevented and THD does not exceed 4% with up to 10dB of overdrive
- **Power Requirements**: 120VAC 50/60 Hz at 5 amps

**FILTERS AND CONTROLS**

- **Low Pass Filter**: 40-120 Hz variable with defeat
- **High Pass Filter**: 40-120 Hz variable (RCA outputs)

**ENCLOSURE**

- **Driver**: 12" LD/HP® woofer
- **Dimensions (h x w x d)**: inch: 22.5 x 15.0 x 19.0 cm: 57.2 x 38.1 x 48.3
- **Weight**: 119 lbs. (54.1kg) boxed ea.