

	Motion 15i	Motion 35XTi	Motion 30i	Motion 50XTi	Motion 20i	Motion 40i	Motion 60XTi	
Application	Bookshelf	Bookshelf	Center Channel	Center Channel	Floorstanding	Floorstanding	Floorstanding	
Frequency Response	60–25,000 Hz ±3 dB	50–25,000 Hz ±3 dB	65–25,000 Hz ±3 dB	50–25,000 Hz ±3 dB	46–25,000 Hz ±3 dB	40–25,000 Hz ±3 dB	35–25,000 Hz ±3 dB	
Dispersion	80° x 80°	80° x 30°	80° x 80°	80° x 30°	80° x 80°	80° x 80°	80° x 30°	
Sensitivity	92 dB @ 2.83 volts/ meter	92 dB @ 2.83 volts/ meter	91 dB @ 2.83 volts/ meter	94 dB @ 2.83 volts/ meter	90 dB @ 2.83 volts/ meter	92 dB @ 2.83 volts/ meter	94 dB @ 2.83 volts/ meter	
Impedance	5 Ohms. Compatible with 4, 6, or 8 Ohm rated amplifiers.	4 Ohms. Compatible with 4, 6 or 8 Ohm rated amplifiers.	4 Ohms. Compatible with 4, 6 or 8 Ohm rated amplifiers.	4 Ohms. Compatible with 4, 6 or 8 Ohm rated amplifiers.	4 Ohms. Compatible with 4, 6 or 8 Ohm rated amplifiers.	4 Ohms. Compatible with 4, 6 or 8 Ohm rated amplifiers.	4 Ohms. Compatible with 4, 6 or 8 Ohm rated amplifiers.	
Crossover Frequency	2,700 Hz	2,200 Hz	400 & 2,600 Hz	900 & 2,200 Hz	500 & 2,600 Hz	500 & 2,600 Hz	400 & 2,200 Hz	
High Frequency Driver	1" x 1.4" (2.6cm x 3.6cm) Folded Motion Transducer with 5.25" x 1.75" (13.3cm x 4.4cm) diaphragm.	1.2" x 2.4" (3.2cm x 6.1cm) Folded Motion Transducer with 4.5" x 2.75" (11.4cm x 7cm) diaphragm.	1" x 1.4" (2.6cm x 3.6cm) Folded Motion Transducer with 5.25" x 1.75" (13.3cm x 4.4cm) diaphragm.	1.2" x 2.4" (3.2cm x 6.1cm) Folded Motion Transducer with 4.5" x 2.75" (11.4cm x 7cm) diaphragm.	1" x 1.4" (2.6cm x 3.6cm) Folded Motion Transducer with 5.25" x 1.75" (13.3cm x 4.4cm) diaphragm.	1" x 1.4" (2.6cm x 3.6cm) Folded Motion Transducer with 5.25" x 1.75" (13.3cm x 4.4cm) diaphragm.	1.25" x 2.4" (3.2cm x 6.1cm) Folded Motion Transducer with 4.5" x 2.75" (11.4cm x 7cm) diaphragm.	
Mid Frequency Driver	—	—	—	—	—	5.5" (14cm) aluminum cone with cast polymer basket. Non-resonant asymmetrical chamber format. Rigid structured dust cap to reduce cone break-up modes.	6.5" (16.5cm) aluminum cone with cast polymer basket. Sealed chamber format. Rigid structured dust cap to reduce cone break-up modes.	
Low Frequency Drivers	5.25" (13.3cm) aluminum cone with cast aluminum basket. Non-resonant asymmetrical chamber format. Rigid structured dust cap to reduce cone break-up modes.	6.5" (16.5cm) aluminum cone with cast polymer basket. Non-resonant asymmetrical chamber format. Rigid structured dust cap to reduce cone break-up modes.	Two 5.5" (14cm) aluminum cone with cast polymer basket. Non-resonant asymmetrical chamber format. Rigid structured dust cap to reduce cone break-up modes.	Two 6.5" (16.5cm) aluminum cone with cast polymer basket. Non-resonant asymmetrical chamber format. Rigid structured dust cap to reduce cone break-up modes.	Two 5.5" (14cm) aluminum cone with cast polymer basket. Non-resonant asymmetrical chamber format. Rigid structured dust cap to reduce cone break-up modes.	Two 6.5" (16.5cm) aluminum cone with cast polymer basket. Non-resonant asymmetrical chamber format. Rigid structured dust cap to reduce cone break-up modes.	Two 8" (20.3cm) aluminum cone with cast aluminum basket. Non-resonant asymmetrical chamber format. Rigid structured dust cap to reduce cone break-up modes.	
Cabinet	Ported	Ported	Ported	Ported	Ported	Ported	Ported	
Components	Custom air core coil and low DCR steel laminate inductors. Polypropylene film capacitors in series and low DF electrolytic capacitors in parallel. Overall system thermal/current protection.	Custom air core coil and low DCR steel laminate inductors. Polypropylene film capacitors in series and low DF electrolytic capacitors in parallel. Tweeter thermal/current protection.	Custom air core coil and low DCR steel laminate inductors. Polyester film capacitors in series and low DF electrolytic capacitors in parallel. Tweeter thermal/current protection.	Custom air core coil and low DCR steel laminate inductors. Polypropylene film capacitors in series and low DF electrolytic capacitors in parallel. Tweeter thermal/current protection.	Custom air core coil and low DCR steel laminate inductors. Polyester film capacitors in series and low DF electrolytic capacitors in parallel. Tweeter thermal/current protection.	Custom air core coil and low DCR steel laminate inductors. Polyester film capacitors in series and low DF electrolytic capacitors in parallel. Tweeter thermal/current protection.	Custom air core coil and low DCR steel laminate inductors. Polyester film capacitors in series and low DF electrolytic capacitors in parallel. Tweeter thermal/current protection.	Custom air core coil and low DCR steel laminate inductors. Polypropylene film capacitors in series and low DF electrolytic capacitors in parallel. Tweeter thermal/current protection.
Recommended Amp Power	20–200 watts	20–250 watts	20–200 watts	20–300 watts	20–200 watts	20–300 watts	20–400 watts	
Binding Post Inputs	Custom 5-way tool-less binding posts	Custom 5-way bi-wire tool-less binding posts	Custom 5-way tool-less binding posts	Custom 5-way bi-wire tool-less binding posts	Custom 5-way bi-wire tool-less binding posts	Custom 5-way bi-wire tool-less binding posts	Custom 5-way bi-wire tool-less binding posts	
Weight	12 lbs. (5.4 kg)	17 lbs. (7.7 kg)	18 lbs. (8.2 kg)	29 lbs. (13.2 kg)	33 lbs. (15 kg)	45 lbs. (20.4 kg)	66 lbs. (30 kg)	
Dimensions (HxWxD)	11.42" x 6.81" x 9.38" (290 x 173 x 238.25 mm)	13.5" x 7.56" x 11.68" (343 x 192 x 296.75 mm)	6.89" x 16.54" x 10.16" (174.95 x 420 x 258 mm)	7.56" x 22.83" x 12.52" (192 x 580 x 318 mm)	36.56" x 6.81" x 11.78" (928.74 x 173 x 299.21 mm)	42.49" x 7.56" x 12.81" (1079.12 x 192 x 325.25 mm)	47.95" x 11.42" x 14.38" (1217.93 x 290 x 320 mm)	

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Motion®
MARTIN LOGAN

The New Look of Proven Performance. Motion® Series

Motion 20i • Motion 40i • Motion 60XTi
Motion 30i • Motion 50XTi
Motion 15i • Motion 35XTi

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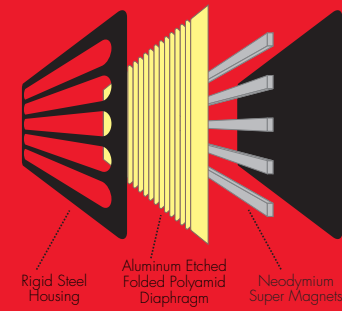
A MODERN TAKE ON A CLASSIC DESIGN.

Since its introduction, the Motion Series has garnered acclaim for its performance and value. Reviewers loved its “incredibly lifelike tonality and imaging,”¹ “excellent bass,”² and “sharply defined soundstage.”³ “Easily one of the best speakers I’ve tested,”¹ one reviewer said, and “you’re really getting a whole lot of speaker for your hard-earned money,”⁴ said another.

So when it came time to introduce a new generation of the Motion Series, we decided not to mess with a good thing. Today’s modern, multi-application speakers utilize the same classic performance technology as previous generations of the Motion Series, updated with a stylish new enclosure design. The result is the same, but different; familiar, but unexpected.

For music or home cinema, you’ll be moved by the performance of Motion speakers. Consider the fast transient response and distortion-free output of the Folded Motion tweeters, a technology that mimics on a small scale the performance of MartinLogan’s big electrostatic transducers. Also, consider the broad, realistic mid-range dynamics, smoothly blended with deep, musical bass, thanks to the exacting tolerances of custom, hand-built crossovers. All of these beloved ideals and more are presented in an acoustically enhanced enclosure that proclaims: this is today’s performance loudspeaker.

1. Brent Butterworth, *HomeTheaterReview.com*
2. Jared Rachwalski, *Secrets of Home Theater & High Fidelity*
3. David Martson, *The Absolute Sound*
4. Michael Trei, *Sound & Vision*



FOLDED MOTION TRANSDUCERS AT WORK. Opposite charges attract. Like charges repel. The neodymium magnets hold constant and opposing charges. The circuit traces on the diaphragm are given a charge that is continuously reversed with the signal, causing the diaphragm to “squeeze” air like an accordion.



AVAILABLE IN THREE STYLISH FINISHES.
Matte White, Red Walnut, and Gloss Black.

THE MOTION LEGACY.

The success of the Motion Series is directly attributed to its close relation to MartinLogan’s legendary ultra-high-end electrostatic loudspeakers. The desire to transmute that level of performance into a more traditional speaker at a more affordable price drove the initial design imperatives that created the Motion Series.

Key to its success is the unique **Folded Motion** and **Folded Motion XT** tweeter technology. This thin-film transducer design packs all the accuracy and delicacy of an electrostatic panel into a small space. Crimping the dramatically light-weight film into an accordion-like structure increases the surface area, giving Folded Motion tweeters 8–10 times more surface area than typical tweeters. This ideal combination of light and large produces higher levels of accuracy, more extended bandwidth, and higher output capability, all with a faster, more efficient transient response, and virtually zero distortion. In these characteristics, the Folded Motion tweeter design can mimic the performance of a large electrostatic panel in the confines of a more traditional loudspeaker enclosure.

By matching the Folded Motion tweeter to high-performance drivers and woofer systems, with hand-built and custom tuned crossovers, the Motion Series extended MartinLogan’s reputation beyond the realm of the world’s finest electrostatic loudspeakers. Motion speakers continue that groundbreaking standard, delivering a richly detailed musical and cinematic experience at an unrivaled price.



ALUMINUM CONE MID-FREQUENCY AND BASS DRIVERS.

Custom built, stiff and lightweight, low-distortion drivers with high-power magnet structures. These deliver massive excursion and sound output, preserve minute bass details, and maximize power handling capability, all without a hint of distortion. A unique concave dust cap design reinforces the strength and rigidity of the cone while reducing break up modes.

PROPRIETARY VOJTKO™ CROSSOVER NETWORKS. High-quality polypropylene and low-DF electrolytic capacitors, custom wound inductors, and thermal and current protection for a seamless sonic presentation. Straightforward topologies and pragmatic, real-world voicing delivers reliable, realistic performance in any listening space.

PERFORMANCE-ENHANCING ENCLOSURE TECHNOLOGY. Motion speakers feature reinforced baffles, virtually eliminating performance-robbing cabinet resonances. Elegant, understated new styling complements flat-panel televisions and other high-end components. Motion 60XTi and 50XTi also feature additional interior bracing.

CUSTOM 5-WAY TOOL-LESS BINDING POSTS. Ensure a secure connection, gold-plated for better signal transfer. Bi-wiring option on some models.

