

COMPACT SPEAKERS

Motion 2i • Motion 4i • Motion 6i • Motion 8i



AUDIOPHILE PERFORMANCE WITHOUT AN AUDIOPHILE PRICE.

Motion 2i, 4i, 6i, and 8i feature exquisite Folded Motion tweeters and powerful bass technology in compact and affordable packages. Key to their performance is the lightning-fast response of the tweeter's low-mass diaphragm combined with a large surface area (much larger than a typical one-inch dome tweeter). They achieve a smooth, refined sound with stunning dynamic range and jaw-dropping clarity—sure to inspire envy in audiophiles and non-audiophiles alike. Precision Vojtko™ crossover topology features polyester film and low DF electrolytic capacitors, custom air core coil inductors, and low DCR steel laminate inductors for a seamless sonic presentation. Flexible installation options allow table top or

on-wall installation of all four speakers. Motion 2i and 4i bookshelf speakers can also mount upside down to facilitate placement high on a wall. Motion 6i and 8i can mount horizontally or vertically around a wall-mounted flat-screen television.

MODERN CURVES AND LUXURIOUS FINISH. After refining and perfecting the acoustic details, MartinLogan designers focused on elegant yet understated styling that complements flat-panel televisions and other high-end components. To achieve this, we gave compact Motion bookshelf and center channel speakers a flawless gloss black finish and compact, slender enclosures. Subtle curves, along with MartinLogan's signature perforated grille, add to the elegant and timeless look.



6i and 8i
Horizontal or Vertical
On-wall or Off-wall

2i and 4i
On-wall or Off-wall

FOLDED MOTION DRIVERS.

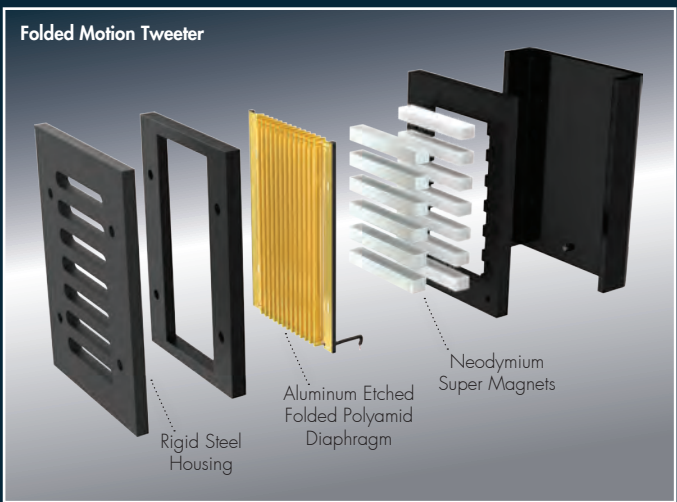
How do you transform the breathtaking detail and lightning-fast accuracy of the world's best electrostatic transducers into more traditional loudspeaker designs? That's the (very) basic idea behind MartinLogan's exclusive Folded Motion tweeter design—a uniquely engineered thin-film diaphragm that fits into a traditional speaker cabinet. This extremely low mass diaphragm “squeezes” air, demanding significantly less excursion than a typical dome tweeter. Its folded design allows a much larger surface area (compared to that of a regular 1-inch dome tweeter), controlled dispersion characteristics, and vanishingly low distortion—delivering much of the high-frequency detail and speed of a large, dynamic electrostatic panel in a small space.

Folded Motion XT tweeters, advanced thin-film transducer technology even further, with a 40% larger radiating surface. This increases audible bandwidth without sacrificing details and minimizes distortion to an unprecedented level while increasing efficiency and the tweeter's lightning-fast response time. The result—superior realism.

HIGH MAGNETIC FIELD STRENGTH FOR SUPERB CONTROL AND EFFICIENCY. Folded Motion tweeters incorporate neodymium iron boron (NIB) rare-earth magnets, with field strengths almost 20 times those of conventional magnet materials. Combining such a powerful magnetic motor system with an extremely lightweight diaphragm yields an outstanding force-to-mass ratio. Folded Motion tweeters are very efficient and always under

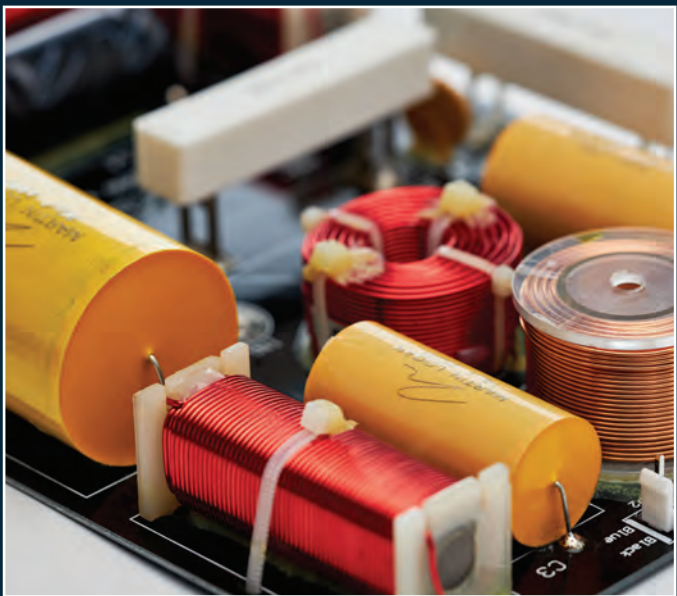
perfect control. The sound that results is pure MartinLogan, with super-low distortion, astonishing clarity, and absolute precision.

FOLDED MOTION TWEETERS AT WORK. An array of neodymium magnets hold constant charges. A circuit trace on the folded polyamide diaphragm, driven by the amplifier, is given a charge that continuously reverses in reaction to the audio signal. Opposite charges attract and like charges repel, causing the diaphragm to “squeeze” air like an accordion and produce sound as the charges of the magnets and diaphragm interact.



VOJTKO™ CROSSOVER NETWORKS.

Vojtko crossovers are named after MartinLogan's chief audio technologist, Joe Vojtko. His unique approach to crossover design is as big of a part of the “MartinLogan Sound” as are electrostatic and Folded Motion thin-film driver technologies. A Vojtko crossover isn't so much a set of design requirements as it is a philosophy. Vojtko crossovers are designed in such a way that all drivers are kept within their optimal frequency range and balanced with one another. The drivers themselves are as much a part of a Vojtko crossover as are capacitors and resistors. Before the design of any crossover begins, drivers are carefully selected or designed to operate within a very intentional frequency range and with precise and predictable performance parameters. Vojtko crossovers are always built from high-quality parts, and care is taken to avoid overly complex topologies—a straightforward objective due to the careful selection of woofers and tweeters. The final (and most critical) aspect of a Vojtko Crossover is that final voicing is conducted in a space that is indicative of a real-world environment. This pragmatic approach allows MartinLogan speakers to sound their best in real-world rooms.



MID-RANGE AND BASS.

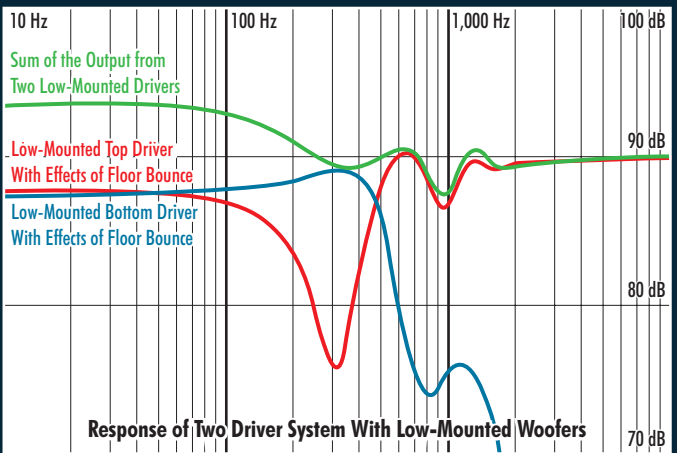
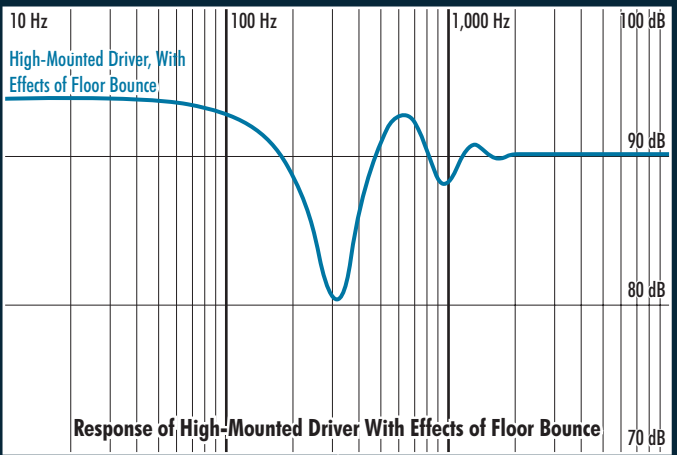
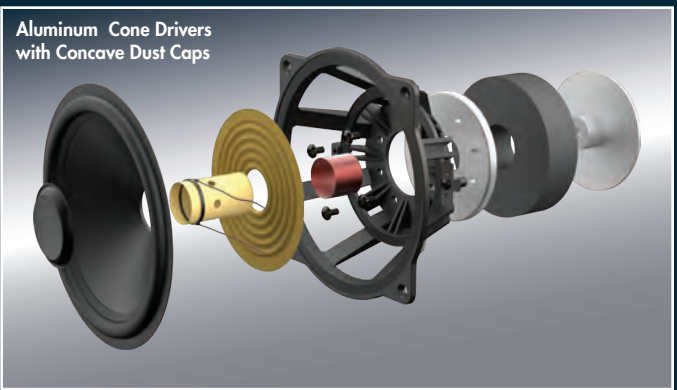
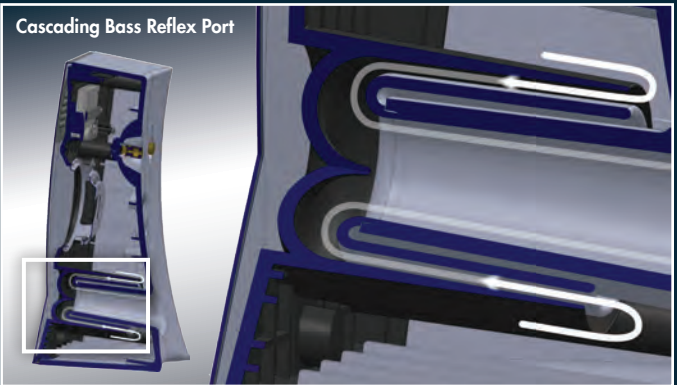
HYBRID DESIGNS. Although Folded Motion tweeters prove exceptional for high frequencies, they cannot recreate deep bass as effectively as a conventional speaker of similar size. Our speakers incorporate high-performance woofers, crossed over to the Folded Motion transducers via carefully tailored, precisely calculated crossover networks made with top-quality components. Low crossover frequencies, phase- and amplitude-optimized network designs, and critically damped woofers ensure a seamless transition between the two types of drivers, yielding speakers that really do offer the best of both worlds.

CASCADING BASS REFLEX PORT. [Motion 4i] MartinLogan's Cascading Bass Reflex Port design allows a long tuned port, which is folded over itself, to be squeezed into the Motion 4i. The result is a compact speaker with amazingly detailed bass that can play at high volumes with minimum distortion.

ALUMINUM CONE MID-FREQUENCY AND BASS DRIVERS. [Motion 15i, 20i, 30i, 35XTi, 40i, 50i, and 60XTi] The use of aluminum for cones maximizes rigidity and strength of the drivers without adding excessive weight. This, along with the exceptional damping properties of aluminum, ensures the smooth, non-resonant response necessary for seamless blending with high-resolution Folded Motion tweeters. An added benefit of aluminum is its outstanding thermal conduction capability which allows cones to serve as efficient heat sinks for voice coils. A unique concave dust cap design reinforces the strength and rigidity of the cone while reducing break up modes.

To deliver accuracy in the critical midrange, mid-frequency drivers feature a specially engineered “stiff” suspension. Stiffening the suspension (the spider and surround) raises the driver's resonant frequency and optimizes its performance to achieve a natural roll-off and inherently operate within an ideal range for a mid-frequency reproduction (as opposed to a comparably sized woofer).

LOW-MOUNTED WOOFERS MINIMIZE FLOOR BOUNCE. [Motion 20i, 40i, and 60XTi] Floorstanding Motion tower models utilize 2.5-way designs that feature two woofers positioned low in the cabinet and close to the floor. This deliberate design addresses a phenomenon known as floor bounce where sound reflected off the floor (from drivers positioned high on a cabinet), and sound aimed directly at the listener interfere with each other. Without addressing these issues, listeners would experience bloated bass and increases and decreases in sound levels throughout critical midrange frequencies. Through careful crossover design and driver positioning, floorstanding Motion speakers deliver a flat, balanced response through the bass and midrange regions.



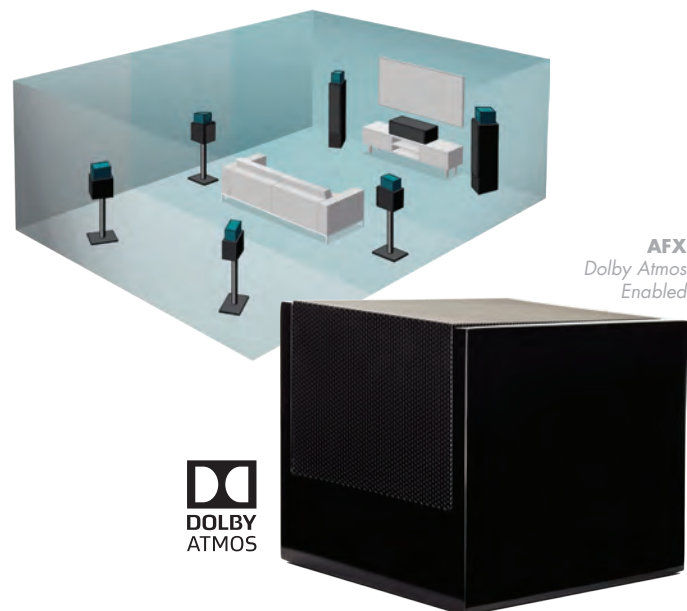
SURROUND SPEAKERS

Motion AFX • Motion FX



MOTION AFX DOLBY ATMOS® ENABLED HEIGHT EFFECTS SPEAKER. With the Motion AFX, there's no need for complicated overhead installations. Simply place the Motion AFX in pairs (2, 4, or 6) on top of existing speakers and wire to any Dolby Atmos-enabled receiver. Even movies not mixed for Dolby Atmos will be expanded to fill the flexible speaker layouts of an Atmos system.

DOLBY ATMOS. WHAT IS IT? Listen to sound come alive from all directions with Dolby Atmos. The science behind this incredible experience lies in channel-based audio that moves specific sound effects around the room. The result is an incredibly realistic sonic atmosphere that immerses you in the experience, so you virtually become part of the scene. With movies, music, television shows, or playing video games, Dolby Atmos delivers the full entertainment experience. Sound technicians can mix in a 3D space creating a seamless overhead dimension and home audio systems automatically scale to your surround configuration.



MOTION FX WIDE-DISPERSION SURROUND. Motion FX features dual Folded Motion tweeters in a wide-dispersion array ideally suited for surround channel applications. A cascading bass-reflex port allows the speaker to deliver deep, detailed low-frequencies.

CORNER AND SURFACE MOUNTING. The Motion FX is designed to corner mount, wall mount, or angle-wall mount for versatile surround placement in any room.



ULTRA-SLIM SPEAKERS

Motion **SLM** • Motion **SLM XL** • Motion **SLM X3**



SLM X3
Horizontal
On-wall or Off-wall



SLM XL and SLM
Horizontal or Vertical
On-wall or Off-wall

SLENDER PROFILE AND STUNNING PERFORMANCE.

The secret to the outstanding performance of the Motion SLM and SLM XL are the innovative dual 4-inch, ultra-slim fiber cone woofers, and 4-inch high-velocity passive bass radiators, paired with a Folded Motion tweeter. Motion SLM X3's three-channel soundbar design ups the ante with three Folded Motion tweeters and six 4-inch ultra-slim fiber cone woofers. The result is stunning acoustical alchemy typically found in much larger speaker systems. Hidden discretely behind the speaker's grille, the drivers are held securely in place by a black-anodized brushed aluminum baffle mounted flush within the speaker's high-gloss black cabinet. The speakers are less than 2-inches deep when installed on-wall with the magnetic grilles and low-profile wall mount brackets.

DESIGNED TO MATCH FLAT SCREEN TELEVISIONS.

Folded Motion tweeters have an 80° x 80° dispersion pattern, which allows SLM and SLM XL to sound the same in a horizontal or vertical orientation, making them perfect for Left-Center-Right (LCR) system applications. The logo on the grille is magnetic and can move and rotate to the proper aesthetically pleasing location in any orientation. SLM and SLM XL both include a base designed for vertical applications, allowing the speakers to sit on a shelf or equipment cabinet. For applications where an on-wall installation is not an option, SLM, SLM XL, and SLM X3 include "kick-stand" brackets that attach to the back of the cabinet, allowing them to free-stand beneath a television.

	Motion 2i	Motion 4i	Motion 6i	Motion 8i	Motion AFX	Motion FX	Motion SLM	Motion XL	Motion X3
Application	Compact bookshelf	Compact bookshelf	Compact LCR	Compact LCR	Surround (Dolby Atmos enabled)	Surround	Ultra-slim LCR	Ultra-slim LCR	Ultra-slim passive soundbar
Recommended Usage	Front, Surround	Front, Surround	Center, Front, Surround	Center, Front, Surround	Height Effects	Surround	Center, Front, Surround	Center, Front, Surround	Center, Front
Installation	Flat surface, On-wall	Flat surface, On-wall	Flat surface, On-wall	Flat surface, On-wall	Flat surface	Flat surface, On-wall	Flat surface, On-wall	Flat surface, On-wall	Flat surface, On-wall
Orientation	Vertical	Vertical	Horizontal, Vertical	Horizontal, Vertical	Vertical	Vertical	Horizontal, Vertical	Horizontal, Vertical	Horizontal
Finishes	Gloss Black	Gloss Black	Gloss Black	Gloss Black	Gloss Black	Matte Black, Matte White	Gloss Black	Gloss Black	Gloss Black
Frequency Response	115–23,000 Hz ±3 dB	70–23,000 Hz ±3 dB	120–23,000 Hz ±3 dB	70–23,000 Hz ±3 dB	90–20,000 Hz ±3 dB	74–25,000 Hz ±3 dB	110–22,000 Hz ±3 dB	100–25,000 Hz ±3 dB	120–23,000 Hz ±3 dB
Dispersion	80° x 80°	80° x 80°	80° x 80°	80° x 80°	—	160° x 80°	80° x 80°	80° x 80°	80° x 80°
Sensitivity	86 dB @ 2.83 volts/meter	90 dB @ 2.83 volts/meter	89 dB @ 2.83 volts/meter	89 dB @ 2.83 volts/meter	87 dB @ 2.83 volts/meter	91 dB @ 2.83 volts/meter	94 dB @ 2.83 volts/meter	94 dB @ 2.83 volts/meter	93 dB @ 2.83 volts/meter
Impedance	6 ohms. Compatible with 4, 6, or 8 ohm rated amplifiers.	4 ohms. Compatible with 4, 6, or 8 ohm rated amplifiers.	6 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	3800 Hz	2900 Hz	4000 Hz	3000 Hz	2000 Hz	4500 Hz	2600 Hz	3100 Hz	3000 Hz
High Frequency Drivers	0.94 x 1 inch (2.4 x 2.5 cm) Folded Motion Transducer with 2.8 x 1.25 inch (7.1 x 3.2 cm) diaphragm.	1 x 1.4 inch (2.6 x 3.6 cm) Folded Motion Transducer with 5.25 x 1.75 inch (13.3 x 4.4 cm) diaphragm.	0.94 x 1 inch (2.4 x 2.5 cm) Folded Motion Transducer with 2.8 x 1.25 inch (7.1 x 3.2 cm) diaphragm.	1 x 1.4 inch (2.6 x 3.6 cm) Folded Motion Transducer with 5.25 x 1.75 inch (13.3 x 4.4 cm) diaphragm.	0.75" (1.9cm) aluminum dome	Two 1 x 1.4 inch (2.6 x 3.6 cm) Folded Motion Transducer with 5.25 x 1.75 inch (13.3 x 4.4 cm) diaphragm.	1 x 1.4 inch (2.6 x 3.6 cm) Folded Motion Transducer with 5.25 x 1.75 inch (13.3 x 4.4 cm) diaphragm.	1 x 1.4 inch (2.6 x 3.6 cm) Folded Motion Transducer with 5.25 x 1.75 inch (13.3 x 4.4 cm) diaphragm.	Three 1 x 1.4 inch (2.6 x 3.6 cm) Folded Motion Transducer with 5.25 x 1.75 inch (13.3 x 4.4 cm) diaphragm.
Low Frequency Drivers	3.5-inch (8.9 cm) poly cone with stamped steel basket. Nonresonant asymmetrical chamber format. Rigid structured dust cap to reduce cone break-up modes.	4-inch (10.2 cm) paper cone with stamped steel basket. Nonresonant asymmetrical chamber format. Rigid structured dust cap to reduce cone break-up modes.	Two 3.5-inch (8.9 cm) poly cone with stamped steel basket. Nonresonant asymmetrical chamber format. Rigid structured dust cap to reduce cone break-up modes.	Two 4-inch (10.2 cm) paper cone with stamped steel basket. Nonresonant asymmetrical chamber format. Rigid structured dust cap to reduce cone break-up modes.	5.25-inch (13.4 cm) polypropylene cone with stamped steel basket.	Two 4-inch (10.2 cm) paper cone with cast aluminum basket. Non-resonant asymmetrical chamber format.	Two 4-inch (10.2 cm) paper cone. Two 4-inch (10.2 cm) paper cone passive radiators.	Two 4-inch (10.2 cm) paper cone. Four 4-inch (10.2 cm) paper cone passive radiators.	Six 4-inch (10.2 cm) paper cone.
Cabinet	Sealed	Ported	Sealed	Sealed	Sealed	Ported	Sealed	Sealed	Sealed
Components	Custom air core coil and low DCR steel laminate inductors. Polyester 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. Polyester 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. Polyester 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. Polyester 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. Polyester film capacitors in series and low DF electrolytic capacitors in parallel.	Custom air core coil inductors. Polyester film capacitors in series and low DF electrolytic capacitors in parallel. Overall system thermal/current protection.	Custom air core coil inductors. Polyester film capacitors in series and low DF electrolytic capacitors in parallel. Overall system thermal/current protection.	Custom air core coil inductors. Polyester film capacitors in series and low DF electrolytic capacitors in parallel. Overall system thermal/current protection.	Custom air core coil inductors. Polyester film capacitors in series and low DF electrolytic capacitors in parallel. Overall system thermal/current protection.
Recommended Amp Power	20–100 watts	20–150 watts	20–130 watts	20–180 watts	20–200 watts	20–160 watts	20–140 watts	20–140 watts	20–140 watts
Binding Post Inputs	Push style with banana jacks	Push style with banana jacks	Push style with banana jacks	Push style with banana jacks	Custom 5-way tool-less	Push style with banana jacks	Push style	Push style	Push style
Accessories (included)	Wall mount bracket, Shoulder bolt, Rubber pads	Wall mount bracket, Shoulder bolt, Rubber pads	Wall mount brackets, Shoulder bolts, Rubber pads	Wall mount brackets, Shoulder bolts, Rubber pads	—	Wall mount bracket, Corner mount bracket, Shoulder bolt, Rubber bumpers	Wall mount bracket, Vertical table stand, Horizontal stands	Wall mount bracket, Vertical table stand, Horizontal stands	Wall mount bracket, Horizontal stands
Accessories (optional)	—	—	—	—	—	—	Paintable white grille	Paintable white grille	—
Recommended Subwoofers	Dynamo Series	Dynamo Series	Dynamo Series	Dynamo Series	Dynamo Series	Dynamo Series	Dynamo Series	Dynamo Series	Dynamo Series
Weight	3.4 lb (1.54 kg)	6 lb (2.72 kg)	5.7 lb (2.58 kg)	8.5 lb (3.85 kg)	8 lb (3.6 kg)	9.5 lb (4.4 kg)	6.5 lb (3 kg)	9 lb (4.1 kg)	13 lb (5.9 kg)
Dimensions (HxWxD)	10 x 4.7 x 4.6 inch (255 x 118 x 117 mm)	12.6 x 5.6 x 5.7 inch (320 x 143 x 145 mm)	5.2 x 17.5 x 4 inch (132 x 444 x 101 mm)	5.6 x 22 x 5.2 inch (142 x 560 x 132 mm)	7.7 x 6.8 x 10 inch (195 x 173 x 254 mm)	11.1 x 12 x 6 inch (282 x 305 x 152 mm)	25.3 x 6.4 x 1.83 inch (642 x 162 x 48 mm)	34.1 x 6.4 x 1.83 inch (867 x 162 x 48 mm)	6.3 x 48 x 2 inch (162 x 1220 x 51 mm)