

FlexPoint

A POWERFUL INVESTMENT IN PREMIUM POINT
SOURCE PERFORMANCE



Unite Your Audience
The Martin Audio Experience



FlexPoint

While line arrays and constant curvature arrays provide advanced solutions for large and medium-scale venues, individual point source loudspeakers continue to be as relevant as ever when it comes to shorter-throw systems for live sound applications and installations.

Alongside Wavefront Precision and TORUS arrays, the exciting FlexPoint™ Series completes a trio of premium loudspeaker categories to deliver the Martin Audio signature sound experience from the intimacy of the smallest gallery to the largest festival.

With state-of-the-art acoustic design and technical innovations throughout, the FlexPoint Series sets a new benchmark in performance and versatility for compact, standalone loudspeakers. FlexPoint systems deliver the very highest quality sound to match the expectations of prestige venues and top-flight touring artists, while their passive two-way configuration heeds the need to reduce running costs and amplifier count.

Comprising five models, the FlexPoint Series covers a vast range of professional applications—from live sound reinforcement, theatre sound and Corporate AV to distributed sound systems for installations and immersive environments. From the miniature FP4 to the powerful FP15, FlexPoint loudspeakers are compact and discreet — providing ultimate clarity, detail and coverage at all sound levels without affecting sight lines or detracting from venue architecture.

FlexPoint systems are also designed to integrate perfectly with Wavefront Precision and TORUS arrays where fill and delay loudspeakers are required — ensuring the same superb sonic characteristics and consistent coverage throughout the venue.



FEATURES

- Premium, portable sound reinforcement loudspeakers
- Five models from miniature 4" FP4 to powerful 15" FP15
- Coaxial Point Source drivers
- Versatile, multi-angle (except FP4) birch plywood enclosures
- Highly flexible deployment

APPLICATIONS

- Short-throw live and theatre sound
- Distributed and immersive sound
- Fills and delays
- Portable DJ and corporate AV events
- Fixed installations



COAXIAL POINT SOURCE INNOVATION

Coaxial Point Source technology lies at the heart of FlexPoint systems. While the frequency response of non-coaxial systems varies off-axis depending on the listening position, a coaxial system improves summation of the LF and HF sections at the crossover point — resulting in a smoother and more consistent frequency response off-axis.

Additionally, FlexPoint coaxial drivers exhibit exemplary dispersion patterns — achieved by trademark innovative acoustic technology which starts by incorporating a two-stage waveguide within the magnet structure. The first stage of the waveguide blends the circular exit of the HF compression driver into a slot exit. The second stage merges the slot exit into a specially contoured LF cone which determines the overall coverage pattern. This approach yields several important benefits:

1. It achieves constant directivity characteristics in the horizontal plane.
2. It avoids a separate add-on horn which would impede the wavefront from the cone and cause irregularities in the frequency response, both on and off-axis.
3. With the perimeter of the cone acting as the horn mouth, pattern control extends to a lower frequency than would be possible with a smaller add-on horn.
4. While many traditional through-the-pole designs can suffer from high frequency beaming, the FlexPoint two-stage waveguide maintains wide constant horizontal coverage out to very high frequencies.





ADAPTABLE, MULTI-PURPOSE ENCLOSURES

FlexPoint enclosures are constructed from birch plywood, finished in hardwearing paint and available in black as standard. Steel grilles with a triple-layer polyester backing present a discreet, professional appearance, while resisting dust and water ingress to IP54 environmental rating.

With the exception of the miniature FP4, each model in the range features a multi-angle enclosure — facilitating either portrait or landscape orientation by rotating the driver within the enclosure. To make this operation quick and easy, and without the need for tools, the grille is secured by proprietary quick-release latches, and the driver fixed to the baffle by means of captive release clamps. Loosening these by hand allows the driver to be quickly rotated through 90° and retightened.



Quick-release grilles



Captive release clamps



Rotate driver through 90°

FLEXIBLE DEPLOYMENT OPTIONS

Threaded inserts in each FlexPoint enclosure support a wide range of mounting options and accessories, depending on the model. These include eyebolt suspension, yoke, wall bracket, truss and mic stand mounting for the smaller models. The larger models also incorporate dual pole-mount sockets into the base of the enclosures and have a rigging bar accessory option for truss mounting that allows quick deployment with easy down-tilt adjustment.



Mic or Pole-Mount



Touring Yokes
Portrait and landscape



Scaff Clamp Option



Install Yokes
Portrait and landscape



SBAR Bracket
Portrait and landscape



FP4

FP4 is a two-way passive design featuring a 4" LF driver and a 0.7" exit HF driver with a 1" diameter high-temperature polymer dome. It has an impressive maximum SPL of 108dB peak, and its Coaxial Point Source configuration produces a well-defined, conical 110° dispersion pattern which is perfect for close proximity applications.



FP6

FP6 is a two-way passive loudspeaker featuring a high-specification 6" LF driver and a 0.7" exit HF driver with a 1.4" diameter high-temperature polymer dome. It delivers an impressive maximum SPL of 119dB peak and has a well-defined dispersion pattern of 100° horizontal x 80° vertical, with horizontal constant directivity characteristics.



FP8

FP8 is a two-way passive loudspeaker featuring a high-specification 8" LF driver and a 1" exit HF driver with a 1.7" diameter high-temperature polymer dome. It delivers an impressive maximum SPL of 124dB peak and has a well-defined dispersion pattern of 90° horizontal x 70° vertical, with horizontal constant directivity characteristics.



FP12

FP12 is a two-way passive loudspeaker featuring a high-specification 12" LF driver and a 1.4" exit HF driver with a 3" diameter titanium diaphragm. It delivers an impressive maximum SPL of 128dB peak and has a well-defined dispersion pattern of 90° horizontal x 60° vertical, with horizontal constant directivity characteristics.

FP15

FP15 is a two-way passive loudspeaker featuring a high-specification 15" LF driver and a 1.4" exit HF driver with a 3" diameter titanium diaphragm. It effortlessly delivers an impressive maximum SPL of 132dB peak and has a well-defined dispersion pattern of 80° horizontal x 50° vertical, with constant horizontal directivity characteristics.



SUBWOOFER FLEXIBILITY

Where required, Martin Audio SX subwoofers can be used in conjunction with FlexPoint systems to extend low-frequency performance and impact. SX subwoofers offer a full complement of options from single and double 10", 12", 15" and 18" as well as a cardioid 15" and 18" and the ultimate subwoofer performance of the Hybrid® horn/reflex loaded SXH218.



SX115



SX215

PREDICTION SOFTWARE

Whether utilised in standalone applications or augmenting other Martin Audio systems, FlexPoint loudspeakers work in conjunction with DISPLAY 3 prediction and modelling software.



FLEXIBLE AMPLIFICATION

FlexPoint systems support a flexible electronics package.

For the optimum sound performance, Martin Audio iKON amplifiers with onboard DSP are recommended.

Alternatively, but for primarily installation projects, Martin Audio VIA amplifiers in conjunction with a DX4.0 system controller, or DX0.4 / DX0.6 controller will provide a more cost-effective option.

When used with iKON amplifiers or DX4.0 controllers, systems utilise Vu-Net. When used with DX0.4 or DX0.6 controllers, systems have standalone software.

	iK42					iK81				
	PER CH	PER AMP	MAX SPL			PER CH	PER AMP	MAX SPL		
			8Ω	4Ω	2Ω			8Ω	4Ω	2Ω
FP4	8	32	0dB	0dB	0dB	8	64	0dB	0dB	0dB
FP6	4	16	0dB	0dB	0dB	4	32	0dB	0dB	0dB
FP8	4	16	0dB	0dB	0dB	2	16	0dB	0dB	X
FP12	4	16	0dB	0dB	0dB	2	16	0dB	-0.5dB	X
FP15	4	16	0dB	0dB	0dB	1	8	0dB	0dB	X

	VIA 2004					VIA 2502					DX CONTROLLERS		
	PER CH	PER AMP	MAX SPL			PER CH	PER AMP	MAX SPL			DX0.4	DX0.6	DX4.0
			8Ω	4Ω	2Ω			8Ω	4Ω	2Ω			
FP4	4	16	0dB	0dB	N/A	8	16	0dB	0dB	0dB	✓	✓	✓
FP6	2	8	-0.8dB	-1dB	N/A	4	8	0dB	0dB	0dB	✓	✓	✓
FP8	X	X	X	X	N/A	2	4	-0.5dB	-1dB	X	✓	✓	✓
FP12	X	X	X	X	N/A	X	X	X	X	X	✓	✓	✓
FP15	X	X	X	X	N/A	X	X	X	X	X	✓	✓	✓

	VIA 5002					VIA 5004					DX CONTROLLERS		
	PER CH	PER AMP	MAX SPL			PER CH	PER AMP	MAX SPL			DX0.4	DX0.6	DX4.0
			8Ω	4Ω	2Ω			8Ω	4Ω	2Ω			
FP4	4	8	0dB	0dB	N/A	8	32	0dB	0dB	0dB	✓	✓	✓
FP6	2	4	0dB	0dB	N/A	4	16	0dB	0dB	0dB	✓	✓	✓
FP8	2	4	0dB	0dB	N/A	2	8	-0.5dB	-1dB	X	✓	✓	✓
FP12	2	4	0dB	0dB	N/A	X	X	X	X	X	✓	✓	✓
FP15	2	4	0dB	0dB	N/A	X	X	X	X	X	✓	✓	✓

TIER ONE



iKON Amplifiers

TIER TWO



VIA Amplifiers

TIER THREE



VIA Amplifiers



DX4.0 Controller

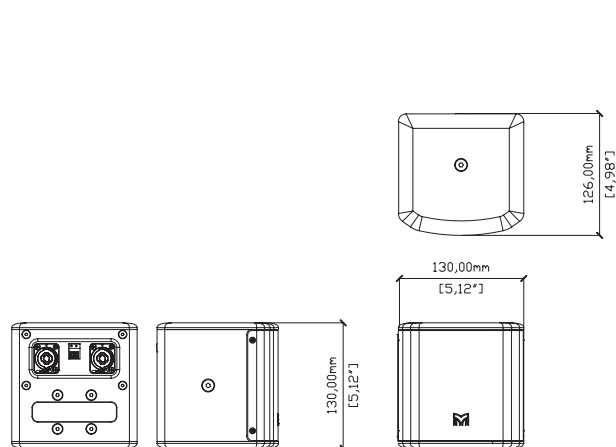


DX0.4 & DX0.6 Controller

TECHNICAL SPECIFICATIONS

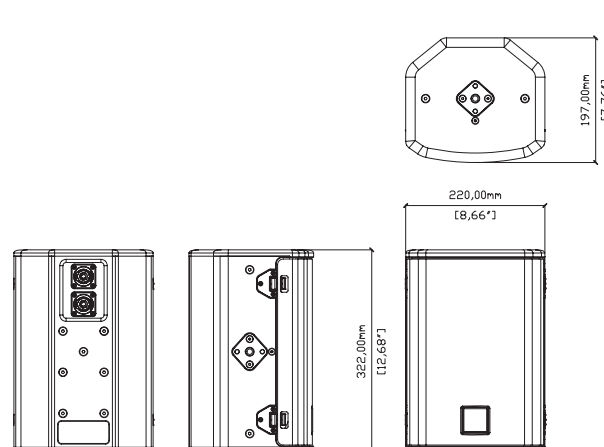
FP4

PRODUCT NAME	FP4
TYPE	Coaxial passive 2-way
CROSSOVER FREQUENCY	2.6kHz
FREQUENCY RESPONSE - 4π (5)	142Hz - 18kHz ± 3dB, -10dB @103Hz with preset
DRIVERS	LF: 4", 1.25" Voice coil, Ferrite Motor HF: 0.7" exit, 1" Voice coil, Coaxial HT polymer dome compression driver
SENSITIVITY (4V 1m free-field)	84dB
NOMINAL IMPEDANCE	16 Ohms
RATED POWER	60W AES, 240W peak
MAXIMUM SPL	102dB Cont, 108dB Peak (6dB)
DISPERSION (-6dB)	110° conical
CONNECTORS	NL4MPXX speakons (pair), Phoenix terminal block 1725302
PIN CONNECTIONS (INPUT)	1+ / 1-
PIN CONNECTIONS (LINK)	1+/- and 2+/-
FITTINGS	4 x M6 inserts, 1 x 3/8" (mic stand) fixing point
DIMENSIONS	(W) 130mm, (H) 130mm, (D) 126mm (W) 5.1ins, (H) 5.1ins, (D) 5.0ins
WEIGHT	1.9kg (4.2lbs)
VOLUME	0.8L
ACCESSORIES	Touring & install yoke



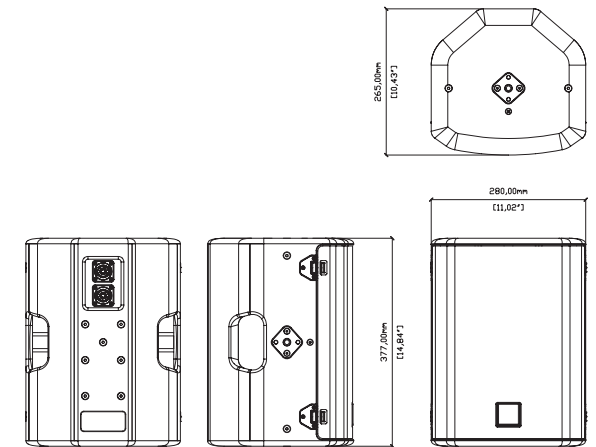
FP6

PRODUCT NAME	FP6
TYPE	Coaxial passive 2-way
CROSSOVER FREQUENCY	2.3kHz
FREQUENCY RESPONSE - 4π (5)	73Hz - 20kHz ± 3dB, -10dB @57Hz with preset
DRIVERS	LF: 6", 1.75" Voice coil, Neodymium Motor with flux stabilising rings HF: 0.7" exit, 1.4" Voice coil, Coaxial HT polymer dome compression driver
SENSITIVITY (4V 1m free-field)	91dB
NOMINAL IMPEDANCE	16 Ohms
RATED POWER	150W AES, 600W peak
MAXIMUM SPL	113dB Cont, 119dB Peak (6dB)
DISPERSION (-6dB)	100° H, 80° V
CONNECTORS	NLT4MPXX-BAG speakons (pair)
PIN CONNECTIONS (INPUT)	1+ / 1-
PIN CONNECTIONS (LINK)	1+/- and 2+/-
FITTINGS	4 x M10, 15 x M6 fixing points, 1 x 3/8" (mic stand) fixing point
DIMENSIONS	(W) 321mm, (H) 220mm, (D) 197mm (W) 12.6ins, (H) 8.7ins, (D) 7.8ins
WEIGHT	5.5kg (12.1lbs)
VOLUME	7L
ACCESSORIES	Separate landscape and portrait touring and install yokes, wall bracket, rigging bar and transit cover



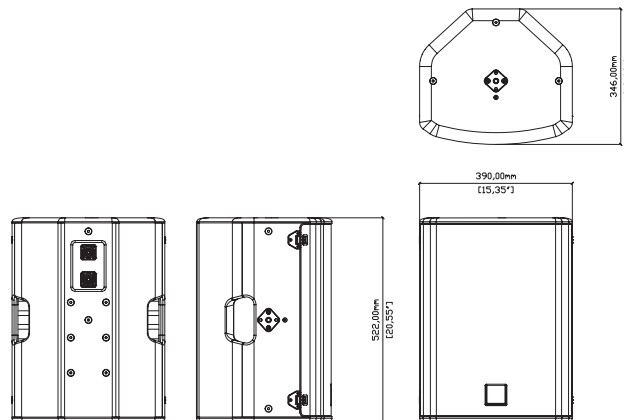
FP8

PRODUCT NAME	FP8
TYPE	Coaxial passive 2-way
CROSSOVER FREQUENCY	2.0kHz
FREQUENCY RESPONSE - 4π (5)	63Hz - 18kHz ± 3dB, -10dB @50Hz with preset
DRIVERS	LF: 8", 2" Voice coil, Neodymium Motor with flux stabilising rings HF: 1" exit, 1.7" Voice coil, Coaxial HT polymer dome compression driver
SENSITIVITY (2.83V 1m free-field)	94dB
NOMINAL IMPEDANCE	8 Ohms
RATED POWER	250W AES, 1000W peak
MAXIMUM SPL	118dB Cont, 124dB Peak (6dB)
DISPERSION (-6dB)	90° H, 70° V
CONNECTORS	NLT4MPXX-BAG speakons (pair)
PIN CONNECTIONS (INPUT)	1+ / 1-
PIN CONNECTIONS (LINK)	1+/- and 2+/-
FITTINGS	4 x M10, 15 x M6 fixing points, dual pole-mount socket, 2 x handle pockets
DIMENSIONS	(W) 376mm, (H) 280mm, (D) 265mm (W) 14.8ins, (H) 11.0ins, (D) 10.4ins
WEIGHT	9.3kg (20.5lbs)
VOLUME	13L
ACCESSORIES	Separate landscape and portrait touring and install yokes, wall bracket, rigging bar and transit cover



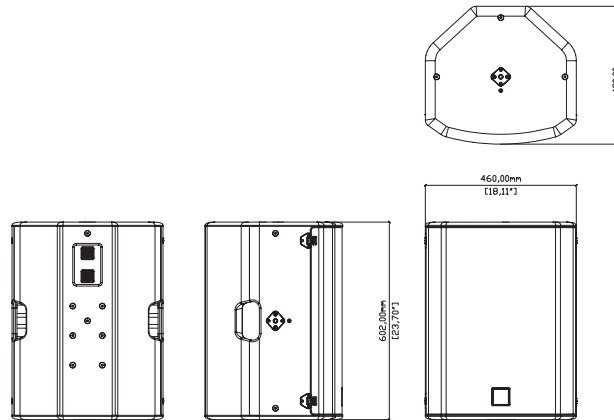
FP12

PRODUCT NAME	FP12
TYPE	Coaxial passive 2-way
CROSSOVER FREQUENCY	1.5kHz
FREQUENCY RESPONSE - 4π (5)	55Hz - 20kHz ± 3dB, -10dB @44Hz with preset
DRIVERS	LF: 12", 3" Voice coil, Neodymium Motor with flux stabilising rings HF: 1.4" exit, 3" Voice coil, Coaxial titanium dome compression driver
SENSITIVITY (2.83V 1m free-field)	97dB
NOMINAL IMPEDANCE	8 Ohms
RATED POWER	350W AES, 1400W peak
MAXIMUM SPL	122dB Cont, 128dB Peak (6dB)
DISPERSION (-6dB)	90° H, 60° V
CONNECTORS	NLT4MPXX-BAG speakons (pair)
PIN CONNECTIONS (INPUT)	1+ / 1-
PIN CONNECTIONS (LINK)	1+/- and 2+/-
FITTINGS	4 x M10, 17 x M8 fixing points, dual pole-mount socket, 2 x handle pockets
DIMENSIONS	(W) 521mm, (H) 390mm, (D) 346mm (W) 20.5ins, (H) 15.4ins, (D) 13.6ins
WEIGHT	17.5kg (38.6lbs)
VOLUME	33.5L
ACCESSORIES	Separate landscape and portrait touring and install yokes, wall bracket, rigging bar and transit cover



FP15

PRODUCT NAME	FP15
TYPE	Coaxial passive 2-way
CROSSOVER FREQUENCY	1.1kHz
FREQUENCY RESPONSE - 4π (5)	50Hz - 20kHz ± 3dB, -10dB @39Hz with preset
DRIVERS	LF: 15", 3.5" Voice coil, Neodymium Motor with flux stabilising rings HF: 1.4" exit, 3" Voice coil, Coaxial titanium dome compression driver
SENSITIVITY (2.83V 1m free-field)	99dB
NOMINAL IMPEDANCE	8 Ohms
RATED POWER	500W AES, 2000W peak
MAXIMUM SPL	126dB Cont, 132dB Peak (6dB)
DISPERSION (-6dB)	80° H, 50° V
CONNECTORS	NLT4MPXX-BAG speakons (pair)
PIN CONNECTIONS (INPUT)	1+ / 1-
PIN CONNECTIONS (LINK)	1+/- and 2+/-
FITTINGS	4 x M10, 17 x M8 fixing points, dual pole-mount socket, 2 x handle pockets
DIMENSIONS	(W) 601mm, (H) 460mm, (D) 420mm (W) 23.7ins, (H) 18.1ins, (D) 16.5ins
WEIGHT	27.4kg (60.4lbs)
VOLUME	57L
ACCESSORIES	Separate landscape and portrait touring and install yokes, wall bracket, rigging bar and transit cover



Notes

- (1) Measured on-axis in half (2pi) space at 2 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half (2pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (4) Measured in half (2pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (5) Measured on-axis in open (4pi) space at 2 metres, then referred to 1 metre.
- (6) Measured in open (4pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open (4pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (8) Measured in open (4pi) space at 2 metres with 2.83V input, using band limited pink noise, then referred to 1 metre.
- (9) Calculated at 1 metre.
- (10) Measured in half (2pi) space at 2 metres with 2.83V input, using band limited pink noise, then referred to 1 metre.



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Version 1.2