



WAVEFRONT
PRECISION



STRONGER | SMARTER | FASTER | HIGHER PRECISION





SIGNATURE SOUND. CONTROL. CONSISTENCY. COVERAGE.

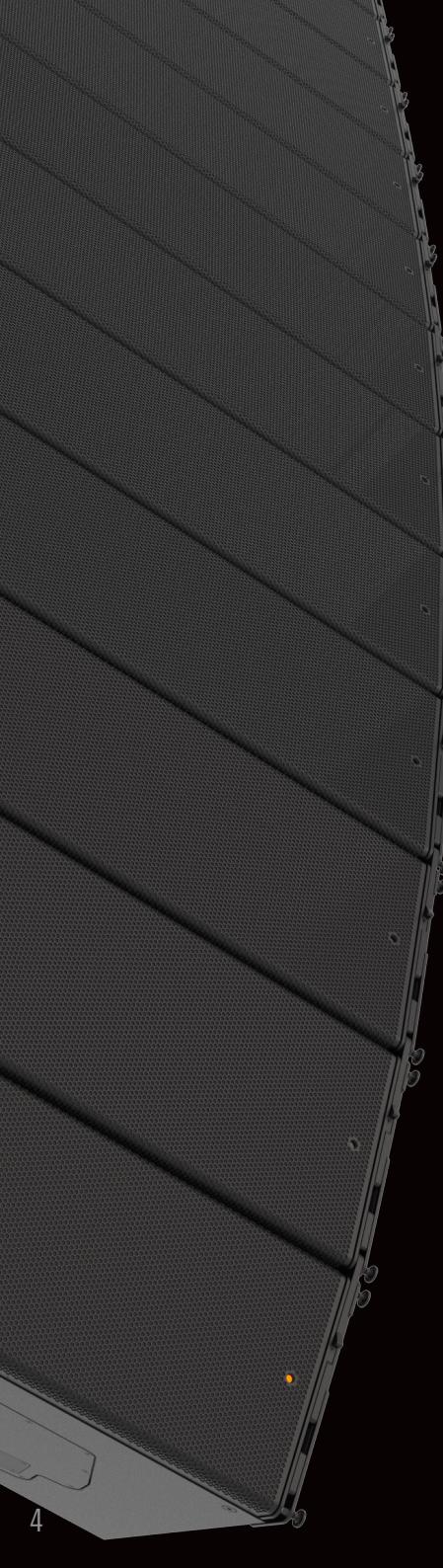
Since the mid-2000s, Martin Audio has been an innovator in optimised line array speaker technology, where a combination of mechanical angle optimisation and advanced DSP filtering enables a Martin Audio line array to meet SPL and frequency response target goals set by the user and delivered with supreme fidelity.

Wavefront Precision offers a scalable approach to the finite level of control, consistency and coverage required for any given event or installation. At the highest resolution, this award winning and patent protected series will provide unprecedented control for hard cut off areas like reflective back walls and suppression of unwanted noise pollution.

STRONGER. SMARTER. FASTER. HIGH PRECISION.

From Q2 2026, Wavefront Precision systems are designed to withstand tougher environmental conditions, feature LED circuit visibility, and enjoy blazing-fast DISPLAY 3 optimisation software with enhanced LF control. It's the perfect choice for festivals, tours, concerts and corporate events alongside installations into houses of worship, stadia and auditoria.





SCALABLE RESOLUTION OPTIMISED LINE ARRAYS

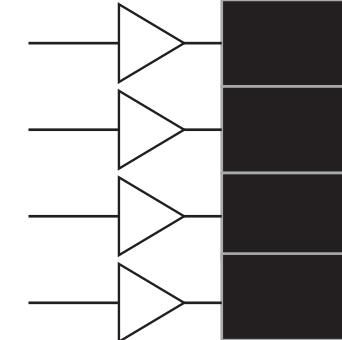
Adopting the principle of scalable resolution, with external, dedicated multi-channel amplifiers, Wavefront Precision line arrays are uniquely flexible, upgradeable and financially accessible.

With exceptional line array performance guaranteed by the acoustic design itself, scalable resolution unlocks the full potential of a Wavefront Precision array and provides an adaptable pathway into the world of advanced optimisation.

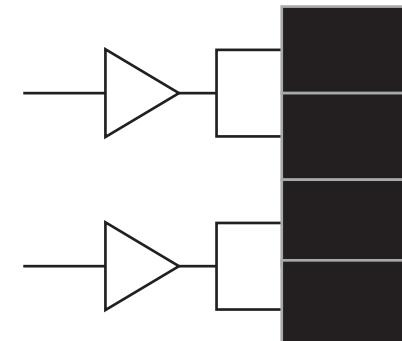
The greater the resolution of the array in terms of individually driven enclosures, the more precisely our prediction and optimisation software, DISPLAY 3, can fine-tune audience coverage and hold the frequency response and SPL's throughout the venue within a tight window specified by the user.

With scalable resolution, the commercial advantages are clear:

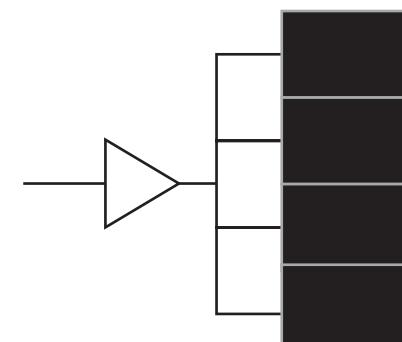
- Design systems to better suit project budget targets.
- Ability to increase resolution over time by buying more amps at later stage.
- Dynamic deployment within a venue or site where the main PA could be driven by enclosures with more dedicated amp channels than may be necessary for delays.



One Box Resolution
1 Top Box to 1 Amp Channel



Two Box Resolution
2 Top Boxes to 1 Amp Channel

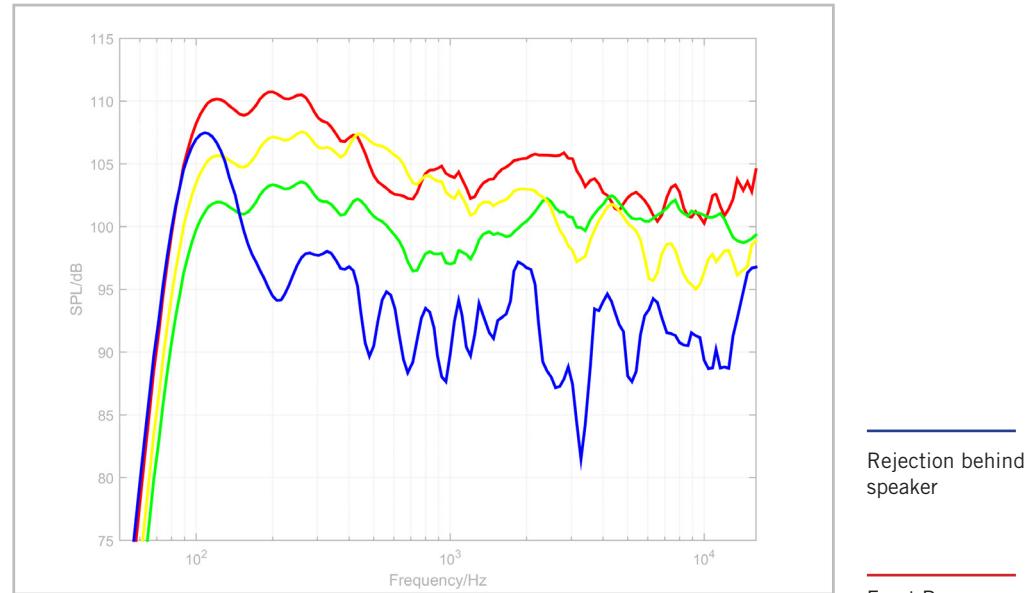


Four Box Resolution
4 Top Boxes to 1 Amp Channel

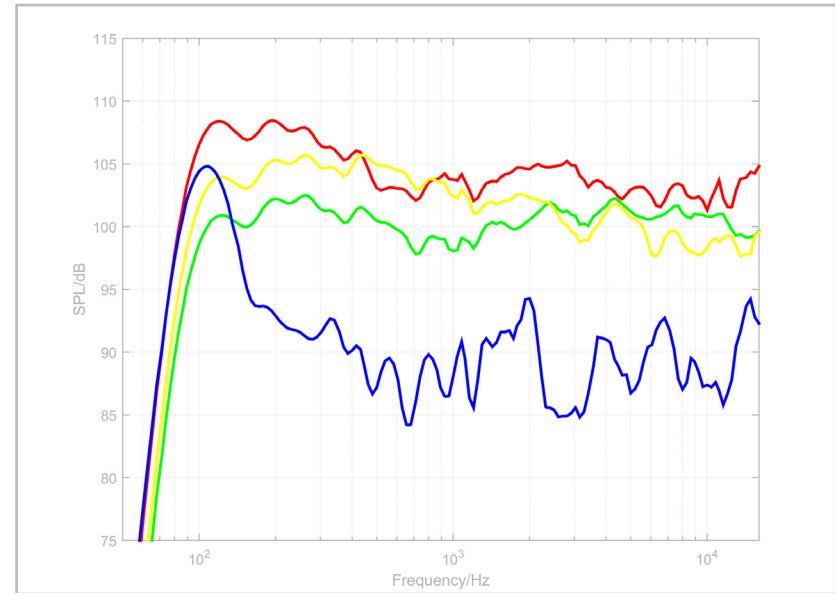


STANDARD LINE ARRAY RESULTS VS. SCALABLE RESOLUTION

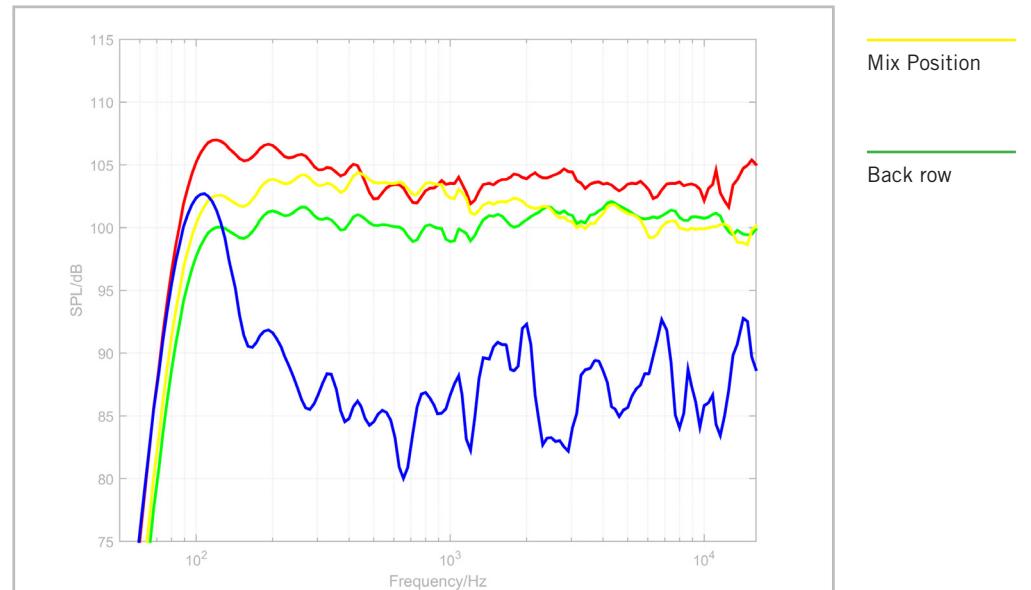
A. Standard Line Array



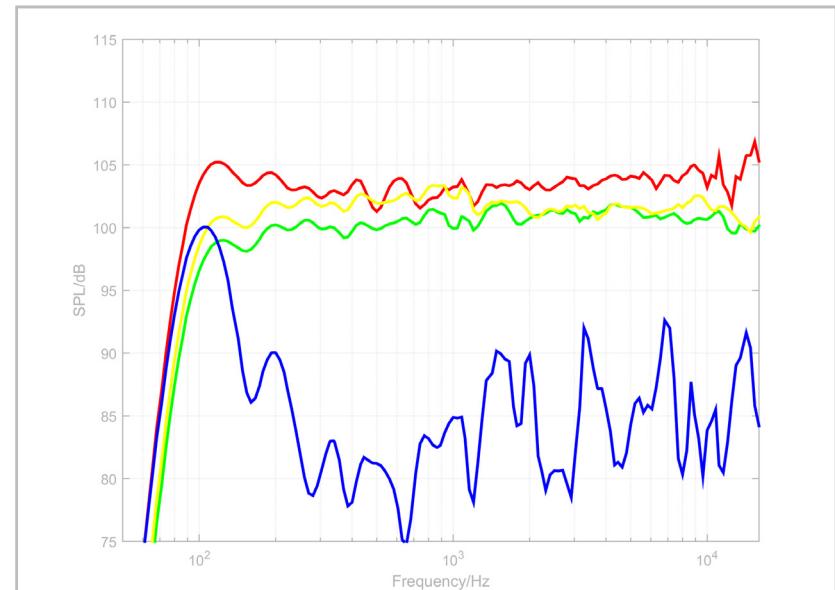
B. WPM – 4 Box Resolution



C. WPM – 2 Box Resolution



D. WPM – 1 Box Resolution



DISPLAY OPTIMISATION: FASTER WITH HIGHER PRECISION

From Q2 2026, DISPLAY 3 fully integrates Wavefront Precision systems featuring a new algorithm that is 27,000 faster to optimise systems than DISPLAY 2. Getting fast results for a complete system allows the user the freedom to quickly refine to ensure optimal sound system deployment for every venue.

Critically, Martin Audio's optimisation process is about precision, not homogenisation. We preserve the signature Martin Audio musicality for every audience member - without over-processing.

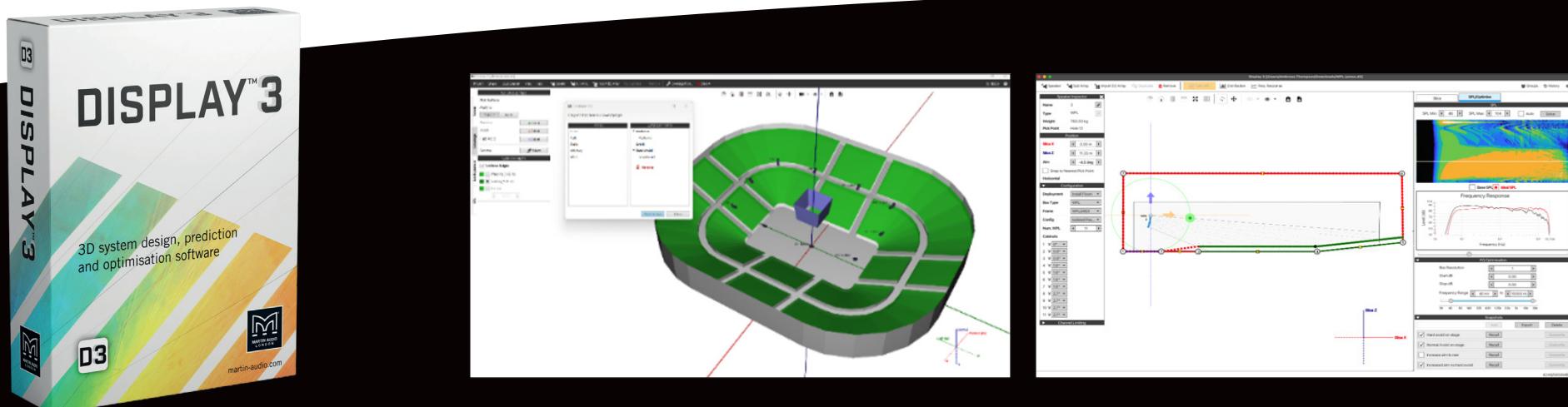
Based on an acoustic model accurate to within $\pm 1\text{dB}$ of measured data, and through a combination of mechanical angle optimisation and advanced DSP filtering, DISPLAY 3 software:

- Optimises the sound to meet SPL and frequency response target goals set by the user, by determining the necessary configuration and output of the array to produce that result.
- Assesses and minimises influence of non-audience areas within a venue or space, while simultaneously maximising sound coverage and consistency for the audience area, increasing clarity and intelligibility.

- Utilises the Hard Avoid® feature to intelligently avoid audio reflections of problem surfaces like ceilings or balcony edges or significantly reduces sound by up to 30dB in a given area like behind an array, or beyond an audience zone for mitigating noise pollution.

- Improves control of low frequency that is meaningful in itself, and also open doors to increased flexibility of line length.
- Provides facility to create multiple snapshot optimisations on hand if conditions change, such as audience size or atmospheric conditions.

Array DSP parameters calculated by DISPLAY are easily uploaded to the iKON amplifiers via Ethernet, using Martin Audio's VU-NET™ real-time control and monitoring software.



AMPLIFICATION, DSP AND SMARTER NETWORKING

Wavefront Precision line arrays are designed as complete systems with dedicated high-performance iKON multi-channel Class D amplifiers. These can deliver very high power output and feature high-speed Ethernet for system control and monitoring via VU-NET, plus Dante™ digital audio networking.

With the option to transmit digital audio over a single CAT5 cable, quality is maintained over long cable runs and integration with other devices in the sound system is straightforward. Furthermore, from Q2 2026, every Wavefront Precision enclosure is now smarter as they feature an LED indicator that can be illuminated via VU-NET software to identify its circuit location.

iKON amps provide powerful DSP processing of up to 1000 FIR filter taps @ 48kHz on each output channel.

The complete system approach not only guarantees that Wavefront Precision arrays perform repeatedly and effortlessly to their design maximum, but also that they are compatible worldwide.



iKON







DESIGN AND MATERIALS: STRONGER AS STANDARD

From Q2 2026, Wavefront Precision enclosures feature improved construction methods, paint and metalwork to make them more hardwearing.

- IP54 rating
- Corrosion resistance
- Protection against heat, cold and humidity
- UV stability protection





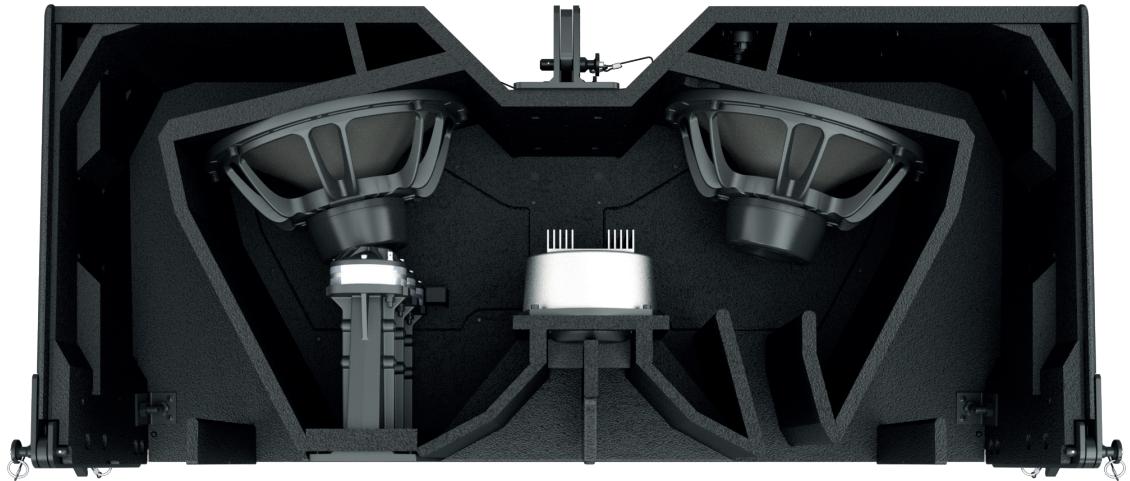
LARGE-FORMAT PRECISION, SCALED FOR STADIUM AND FESTIVAL POWER

WPL is a 3-way, bi-amped, large-format line array with dual 12" LF, scalable resolution optimisation, and the ability to deliver stadium-level and large festival output with extraordinary control.

At just 64kg [116lbs] its power output to weight relationship provides additional efficiency in trucking space and speed of deployment.

WPL RESOLUTION MATRIX

	Benefits	WPL
1-box Resolution Display Optimised	Hard Avoid® capability, improved audience consistency, electronically adjustable coverage	✓
2-box Resolution Display Optimised	Significantly improved audience coverage consistency over splay angles only, offering a compelling performance & price ratio	✓
Mechanical Optimisation via Display	Splay angles optimised using highly-accurate acoustic model; more consistent and faster than standard line array using basic geometric model	✓



DUAL HYBRID® HORN LF SECTION

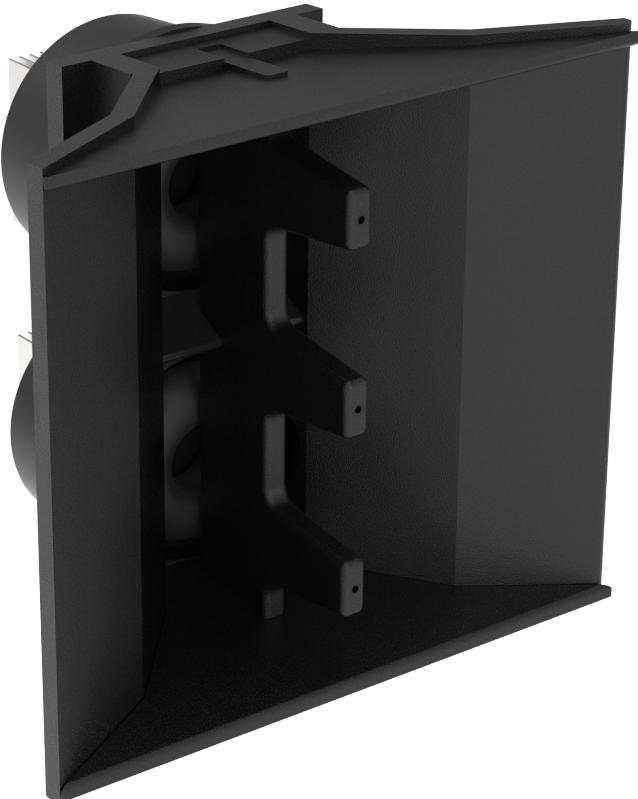
At the heart of WPL's low-frequency performance is Martin Audio's Hybrid® horn technology — combining the punch and projection of a horn with the extension of a bass-reflex design.

Key advantages include:

- ~4dB efficiency improvement over direct radiator LF designs
- Superior LF throw and warmth over long distances
- Better pattern control down to 150Hz
- Reduced spill at the sides and rear of the array

The LF section uses 2 x 12" neodymium drivers, each front-loaded by hyperbolic horns and rear-loaded by a ported chamber. A differentially flared port minimises turbulence for cleaner, more musical low-frequency reproduction. Drivers are engineered for high excursion, forced-air cooling, and low power compression, ensuring consistent output from the first note to the last.

PATENTED HORN-LOADED MIDRANGE: THE SIGNATURE WPL SOUND



WPL's midrange is central to its power, clarity and vocal intelligibility — and is one of its greatest competitive advantages.

Using $2 \times 6.5"$ cone drivers with toroidal phase bungs on a fully horn-loaded, constant directivity waveguide, this section:

- Maintains 90° horizontal pattern control with minimal variation across the 300Hz–4kHz band
- Reproduces the entire vocal range on a single diaphragm for superior tonal consistency
- Delivers higher output and cleaner projection than direct radiator alternatives
- Reduces distortion through a low compression ratio throat design
- Ensures smoother horizontal response via the patented HiBlade™ waveguide

The result is unmistakable: smooth, powerful, and highly intelligible vocals that carry effortlessly across vast audience areas.





ULTRA-CLEAN, EXTENDED HF WITH TRUE LINE-ARRAY BEHAVIOUR

For high frequencies, WPL uses $3 \times 1"$ exit neodymium compression drivers, each on its own horn with genuine 90° constant directivity.

This architecture — combined with the high 4kHz crossover enabled by the mid horn — provides:

- Significantly lower HF distortion than large-format compression driver designs
- Cleaner reproduction exactly where human hearing is most sensitive
- More open, extended top-end
- No “break-up region” harshness common in larger diaphragms
- Patented kite-shaped horn wedges that flatten the wavefront for true line-array summation

Put simply: highs stay pristine, controlled, and fatigue-free, even at high SPL levels.

FAST AND EASY RIGGING – DEPLOYMENT SPEED

Safety, simplicity and speed are essential aspects of a rigging system which the WPL three-point rigging system fully addresses. The rigging design allows for suspension of up to 24 enclosures, with DISPLAY software calculating the splay angles from 0°-7.5° needed to produce the desired vertical coverage. DISPLAY also determines the safe limits and tilt angle of an array and confirms compliance with specific safety standards, including BGV-C1, prior to deployment.

Front Rigging Points

The front hinge points at the top of each WPL enclosure over-extend to ensure that there is plenty of 'finger-room' for riggers to pin enclosures together. As well as safeguarding hands, this over-extension also gives useful latitude when connecting the lowermost box in an array to the uppermost box on a dolly which may not be on level ground, such as a festival site. As the hang is lowered, a second pin locks the hinge in place in its unextended position to minimise the gap between enclosures at the hinge point to just a few millimetres, ensuring vertical coverage consistency.

Rear Rigging Point

The rear rigging point sets the inter-cabinet splay angles determined by DISPLAY, and the design allows the angles to be easily set by a quick-release pin while enclosures are in their closed-up transport positions on the dolly. Once the uppermost enclosure on the dolly is attached to the array and the array is lifted, the dolly enclosures open up to the correct splay angles. A second pin locks each in place.

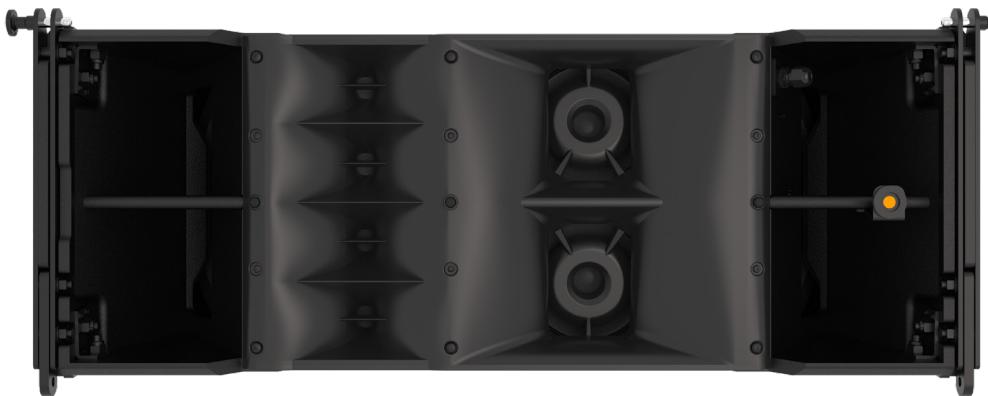




WPC is a medium-format optimised line array which brings innovative acoustic design, ultra-high performance and coverage consistency to a wider range of users, applications and budgets than previously possible. A three-way, bi-amp system, it features horn-loaded low frequency, mid and HF sections to raise efficiency and increase output. With a peak SPL of 135dB its high efficiency acoustic design can equal or outperform larger, direct radiator systems — a 12-box array will throw beyond 60 metres (200ft) and deliver impressive rock levels to a 5000-seat venue, saving on truck space and weight.

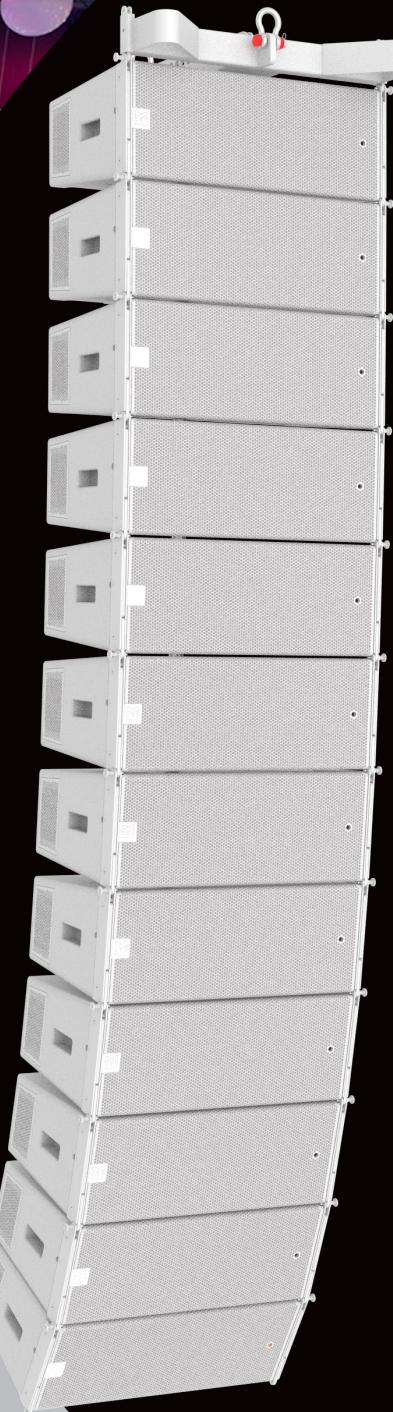
WPC's low frequency section consists of 2 x 10" (250mm) neodymium drivers in a Hybrid® configuration which marries the benefits of horn and reflex loading. Each driver is slot-loaded into a short horn to give a high sensitivity, while the rear of the driver is reflex-loaded to extend the LF output. The punch and low-frequency extension produced from such a small enclosure volume are remarkable.

Mid and HF horns are physically separate — a key factor in the WPC's exemplary 100° horizontal constant directivity dispersion pattern. The midrange horn design utilises 2 x 5" (125mm) neodymium drivers to produce a high output while the HF section employs 4 x 0.7" (19mm) exit neodymium compression drivers which feed 4 individual horns. Use of multiple small HF drivers instead of a more traditionally-used large format compression driver results in less distortion and a more extended HF response.



WPC RESOLUTION MATRIX

	Benefits	WPC
1-box Resolution Display Optimised	Hard Avoid® capability, improved audience consistency, electronically adjustable coverage	✓
2-box Resolution Display Optimised	Significantly improved audience coverage consistency over splay angles only, offering a compelling performance & price ratio	✓
3-box Resolution Display Optimised	Improved audience coverage consistency over mechanical optimisation	✓
Mechanical Optimisation via Display	Splay angles optimised using highly-accurate acoustic model; more consistent and faster than standard line array using basic geometric model	✓





WPS is a versatile, state-of-the-art line array with a peak SPL of 133dB and is designed for small-to-medium scale touring and install applications that require a high output array with reduced weight and footprint. With exemplary coverage consistency and superb sound performance, the flexibility of WPS makes it an ideal system for live sound reinforcement and installations in theatres, concert halls and Houses of Worship. Return-on-investment within a rental company's inventory is maximised by also deploying WPS arrays as front-fill, delay or side-hang support for larger WP systems.

WPS is a passive 3-way system which integrates a high density of drive units in a very compact enclosure. It features 2 x 8" (200mm) LF drivers, 4 x 4" (100mm) midrange drivers and 4 x 1" (25mm) exit HF compression drivers loaded by a moulded HF horn which occupies the full width of the enclosure — defining the 100° horizontal constant directivity coverage pattern of both the HF and midrange sections.

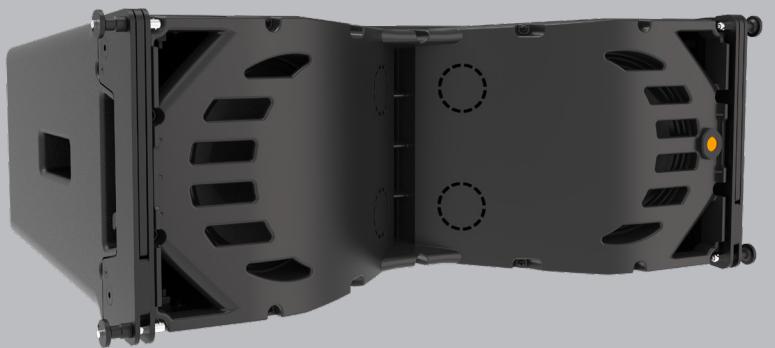
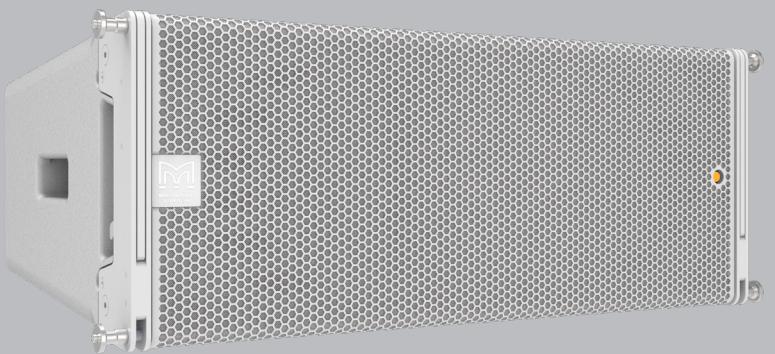
The 4" midrange drivers are compression-loaded to raise efficiency and enter the horn walls via annular slots close to the HF throat to sum effectively with the HF waveform. In the HF section, four 1" exit compression drivers deliver pristine high frequency sound without the harshness and distortion associated with larger format devices.

The 8" LF drivers are set back behind the walls of the HF horn, with a small volume of air in front of each driver increasing the output at the upper end of its operating range. The LF exit apertures are spaced apart horizontally to provide useful LF horizontal pattern control.



WPS RESOLUTION MATRIX

	Benefits	WPS
1-box Resolution Display Optimised	Hard Avoid® capability, improved audience consistency, electronically adjustable coverage	✓
2-box Resolution Display Optimised	Significantly improved audience coverage consistency over splay angles only, offering a compelling performance & price ratio	✓
3-box Resolution Display Optimised	Improved audience coverage consistency over mechanical optimisation	✓
Mechanical Optimisation via Display	Splay angles optimised using highly-accurate acoustic model; more consistent and faster than standard line array using basic geometric model	✓





WPM is incredibly versatile. Its very small footprint and light weight make it the system of choice for smaller venues which require superb fidelity, coverage consistency and control from an ultra-compact line array. With a peak SPL of 130dB, it is also very powerful — a 12-box array will throw beyond 35 metres (115ft) and produce live music at high levels in up to 3000-seat venues. It embodies the very latest acoustic technology in an ultra-compact enclosure and is the ideal system for small-to-medium scale theatres and live music venues, AV events and installations in concert halls, ballrooms and HoW.

A passive 2-way system with an impedance of 16 ohms, it can be driven in blocks of 1, 2, 3 or 4 resolution configuration. With a complement of 2 x 6.5" (165mm) LF drivers and a vertical column of 3 x 1.4" (35mm) aluminium dome HF drivers, the acoustic design of WPM is uniquely innovative. The LF drivers are located in the side walls of the HF horn — an arrangement which would introduce acoustic cavities which would degrade the horizontal dispersion if conventional cone drivers were used. WPM's drivers adopt an elegant solution by having solid moulded diaphragms which match the contours of the horn walls and maintain the continuity of the horn profile. Each LF driver also features a demodulation ring in the neodymium motor system to minimize distortion and maximise mid-band output.

In the triple-driver HF section, each individual HF waveform is precisely coupled to the horn throat via a short waveguide for faultless 100° horizontal constant directivity coverage.

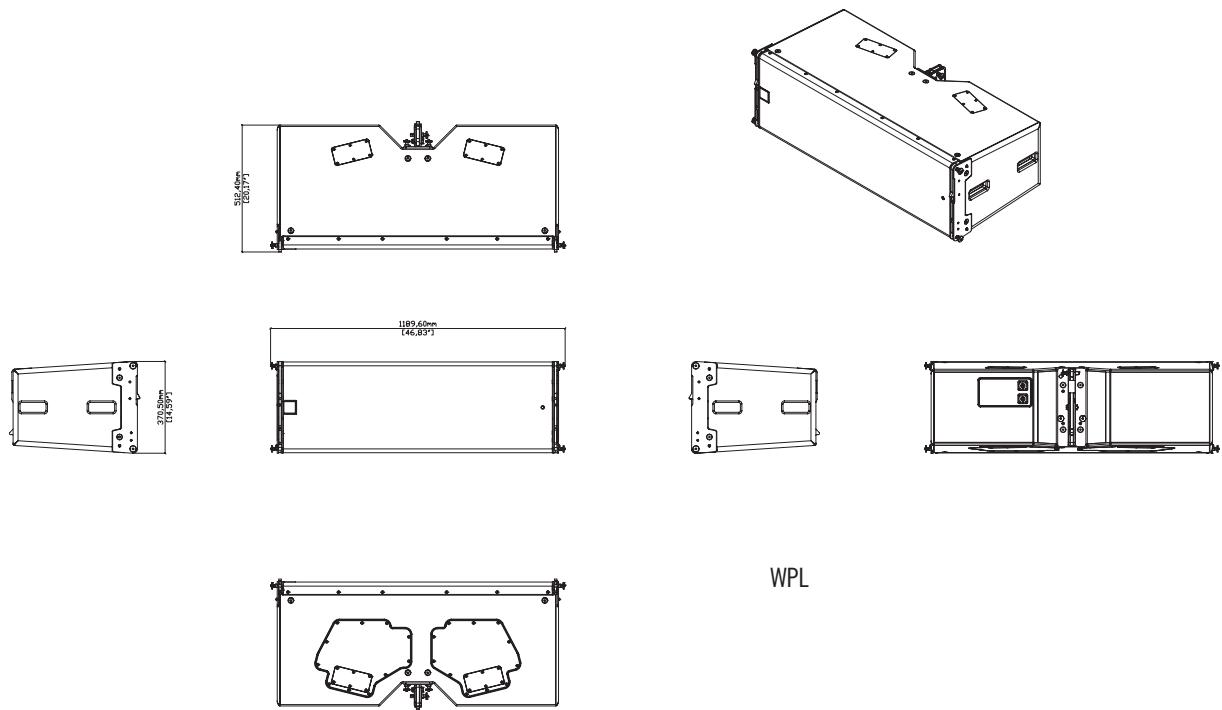


WPM RESOLUTION MATRIX

	Benefits	WPM
1 box Resolution Display Optimised	Hard Avoid® capability, high consistency, electronically adjustable coverage	✓
2 box Resolution Display Optimised	Significantly improved audience coverage consistency over splay angles only, offering a compelling performance & price ratio	✓
4 box Resolution Display Optimised	Improved audience coverage consistency over splay angles only	✓
Mechanical Optimisation via Display	Splay angles optimised using highly-accurate acoustic model; more consistent and faster than standard line array using basic geometric model	✓



TECHNICAL SPECIFICATIONS



WPL

WPL

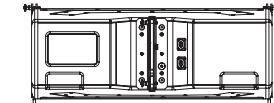
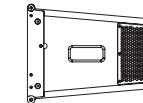
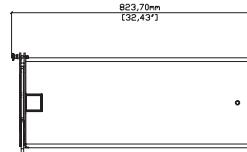
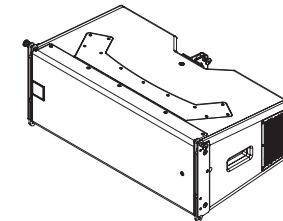
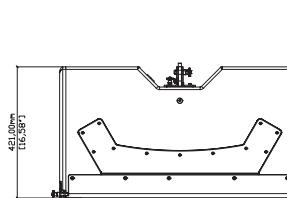
TYPE	Three-way, bi-amp line array element
FREQUENCY RESPONSE (5)	52Hz-18kHz ± 3dB
DRIVERS	LF: 2 x 12" (300mm)/3" (75mm) voice coil, ultra-long excursion, neodymium magnet drivers, Hybrid® bass horn loaded MF: 2 x 6.5" (165mm)/2" (50mm) coil, neodymium magnet drivers, horn loaded HF: 3 x 1" (25mm) exit neodymium magnet compression drivers, horn loaded
SYSTEM AMPLIFIER	IKON iK42
SYSTEM RESOLUTION	1 or 2 enclosures per pair of amplifier channels (Bi-amp)
RATED POWER (2)	LF: 800 W AES, 3200 W peak MF/HF: 500 W AES, 2000 W peak
MAXIMUM SPL (9)	LF: 139dB MF: 140dB HF: 145dB
NOMINAL IMPEDANCE	LF: 8 ohms, MF + HF: 8 ohms
DISPERSION	90° horizontal (-6dB), 120° horizontal (-10dB) 7.5° vertical
CROSSOVER	320Hz active, 4kHz internal passive
ENCLOSURE	Vertical trapezoid with 3.75° wall angle, multi-laminate birch and poplar-ply construction
FINISH	Black or white hardwearing paint
PROTECTIVE GRILLE	Black or white HEX perforated steel with network LED
ENVIRONMENTAL TESTING (11)	IP 54 MIL-STD-810H ISO 4892-2 Solar Radiation ISO 12944-6 Category C3 Corrosion resistance
CONNECTORS	2 x NL4 type
PIN CONNECTIONS	LF: 1+/1-, MF + HF: 2+/2-
FITTINGS	3-point rigging system 4 x side pocket handles
FLOWN ARRAY MAXIMUM	24 enclosures in single array
DIMENSIONS (ex. pins)	(W) 1136mm x (H) 371mm x (D) 526mm (W) 44.7in x (H) 14.6in x (D) 20.7in
WEIGHT	64kg (141lbs)
ACCESSORIES	Touring flying frame Install flying frame Dolly for 4 enclosures Ground stack outrigger Flying Pin

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 with 6dB crest factor.
- (10) Measured in half (2pi) space at 2 metres with 2.83V input, using band limited pink noise, then referred to 1 metre.
- (11) Please refer to dedicated Environmental Testing page within datasheets or martin-audio.com/environmentaltesting

WPC

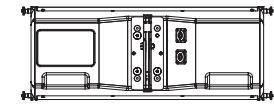
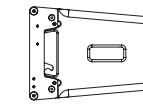
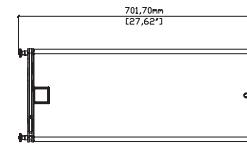
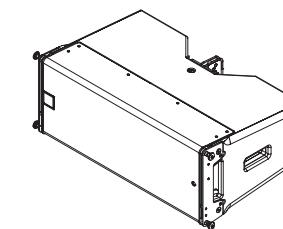
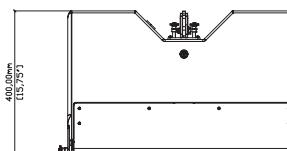
TYPE	Three-way, bi-amp line array element
FREQUENCY RESPONSE (5)	65Hz-18kHz ± 3dB
DRIVERS	LF: 2 x 10" (250mm)/2.5" (63mm) voice coil, long excursion, vented pole, neodymium magnet drivers, Hybrid® slot-horn loaded MF: 2 x 5" (125mm)/1.5" (38mm) coil, neodymium magnet drivers, horn loaded HF: 4 x 0.7" (19mm) exit neodymium magnet compression drivers, horn loaded
SYSTEM AMPLIFIER	iKON iK42
SYSTEM RESOLUTION	1 to 3 enclosures per pair of amplifier channels (Bi-amp)
RATED POWER (2)	LF: 500 W AES, 2000 W peak MF/HF: 180 W AES, 720 W peak
MAXIMUM SPL (9)	135dB peak
NOMINAL IMPEDANCE	LF: 8 ohms, MF + HF: 8 ohms
DISPERSION	100° horizontal (-6dB), 130° horizontal (-10dB) 10° vertical
CROSSOVER	440Hz active, 4.4kHz internal passive
ENCLOSURE	Vertical trapezoid with 5° wall angle, multi-laminate birch and poplar-ply construction
FINISH	Black or white hardwearing paint
PROTECTIVE GRILLE	Black or white HEX perforated steel with network LED
ENVIRONMENTAL TESTING (11)	IP 54, MIL-STD-810H, ISO 4892-2 Solar Radiation ISO 12944-6 Category C3 Corrosion resistance
CONNECTORS	2 x NL4 type
PIN CONNECTIONS	LF: 1+/1-, MF + HF: 2+/2-
FITTINGS	3-point rigging system, 2 x side pocket handles, 2 x rear grip handles
FLOWN ARRAY MAXIMUM	16 enclosures in single array
DIMENSIONS	(W) 772mm x (H) 319mm x (D) 421mm (W) 30.4in x (H) 12.6in x (D) 16.6in
WEIGHT	35kg (77.1lbs)
ACCESSORIES	Install flying frame, Touring flying frame, Flying Pin, Dolly for 4 enclosures, Ground stack outrigger



WPC

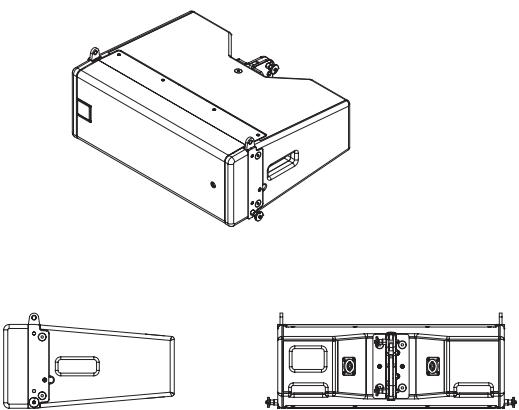
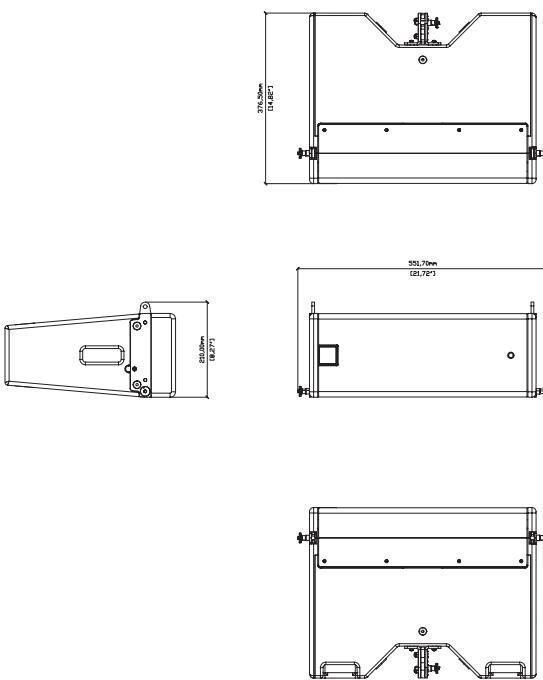
WPS

TYPE	Three-way, passive line array element
FREQUENCY RESPONSE (5)	70Hz-18000Hz ± 3dB
DRIVERS	LF: 2 x 8" (200mm)/2" (50mm) voice coil, long excursion, vented yoke, neodymium magnet drivers MF: 4 x 4" (100mm)/1" (25mm) coil, neodymium magnet drivers, compression loaded HF: 4 x 1" (25mm) exit/1/4" (35mm) HT Polymer diaphragm, neodymium magnet compression drivers
SYSTEM AMPLIFIER	iKON iK42
SYSTEM RESOLUTION	1 to 3 enclosures per amplifier channel (iK42)
RATED POWER (2)	500 W AES, 2000 W peak
MAXIMUM SPL (9)	133dB peak
NOMINAL IMPEDANCE	6 ohms
DISPERSION	100° horizontal (-6dB), 120° horizontal (-10dB), 10° vertical
CROSSOVER	520Hz, 1.6kHz internal passive
ENCLOSURE	Vertical trapezoid with 5° wall angle, multi-laminate birch and poplar-ply construction
FINISH	Black or white hardwearing paint
PROTECTIVE GRILLE	Black or white HEX perforated steel with network LED
ENVIRONMENTAL TESTING (11)	IP 54, MIL-STD-810H, ISO 4892-2 Solar Radiation ISO 12944-6 Category C3 Corrosion resistance
CONNECTORS	2 x NL4 type
PIN CONNECTIONS	1+/1-
FITTINGS	3-point rigging system, 2 x side pocket handles, 2 x rear grip handles
FLOWN ARRAY MAXIMUM	16 (installation) and 24 (touring) enclosures in a single array
DIMENSIONS	(W) 650mm x (H) 261mm x (D) 400mm (W) 25.6in x (H) 10.3in x (D) 15.8in
WEIGHT	27kg (60lbs)
ACCESSORIES	Install flying frame, Touring flying frame, Flying Pin
FLOWN ARRAY MAXIMUM	24 enclosures in single array
DIMENSIONS (ex. pins)	(W) 1136mm x (H) 371mm x (D) 526mm (W) 44.7in x (H) 14.6in x (D) 20.7in
WEIGHT	64kg (141lbs)
ACCESSORIES	Touring flying frame, Install flying frame, Dolly for 4 enclosures, Ground stack outrigger, Flying Pin



WPS

WPM



WPM

TYPE	Two-way, passive line array element
FREQUENCY RESPONSE (5)	76Hz-18kHz ± 3dB
DRIVERS	LF: 2 x 6.5" (165mm) contoured-diaphragm / 2" (50mm) edge-wound CCAW voice coil, neodymium magnet drivers, reflex loaded HF: 3 x 1.4" (35mm) aluminium dome / 1.4" (35mm) voice coil, neodymium magnet compression drivers on constant-directivity waveguide
SYSTEM AMPLIFIER	iKON iK41, iK42 or iK81
SYSTEM RESOLUTION	1 to 4 enclosures per amplifier channel
RATED POWER (2)	300 W AES, 1200 W peak
MAXIMUM SPL (9)	130dB peak (1 cabinet)
NOMINAL IMPEDANCE	16 ohms
DISPERSION	100° horizontal (-6dB), 125° horizontal (-10dB) 10° vertical
CROSSOVER	1.2kHz passive
ENCLOSURE	Vertical trapezoid with 5° wall angle, Multi-laminate birch and poplar-ply construction
FINISH	Black or white hardwearing paint
PROTECTIVE GRILLE	Black or white HEX perforated steel with network LED
ENVIRONMENTAL TESTING (11)	IP 54 MIL-STD-810H ISO 4892-2 Solar Radiation ISO 12944-6 Category C3 Corrosion resistance
CONNECTORS	2 x NL4 type
PIN CONNECTIONS (INPUT)	1+/1-
FITTINGS	Integral 3-point rigging system 2 x side pocket handles 2 x rear grip handles
FLOWN ARRAY MAXIMUM	16 enclosures in single array
DIMENSIONS	(W) 500mm x (H) 185mm x (D) 377mm (W) 19.7in x (H) 7.3in x (D) 14.8in
WEIGHT	14kg (30.9lbs)
ACCESSORIES	Touring flying frame Install flying frame Dolly for 4 enclosures Ground stack outrigger Flying Pin

iK41

General	
TYPE	Four-channel Class D amplifier
POWER OUTPUT*	1500W into 2 ohms 1500W into 4 ohms 750W into 8 ohms 325W into 16 ohms 3000W bridged per channel pair, 4 ohms 3000W bridged per channel pair, 8 ohms
CV LINE OUTPUT*	685W, 25V line 1500W, 70V line 1163W, 100V line
DIGITAL SIGNAL PROCESSING	96kHz/48kHz DSP on all inputs and outputs
COOLING	Dual vari-speed fans, front-to-back airflow
MAXIMUM AMBIENT TEMPERATURE	40°C (105°F)
Audio Inputs/Outputs	
ANALOGUE IN/LINK (4 CHANNELS)	4 x female, 4 x male Neutrik™ XLR
ANALOGUE INPUT IMPEDANCE	20kΩ balanced to ground
MAXIMUM ANALOGUE INPUT LEVEL	+20dBu
AES3 IN/LINK (2 CHANNELS)	1 x female, 1 x male Neutrik™ XLR, balanced
DANTE™ (4 CHANNELS)	2 x shielded RJ45, primary and secondary
(AES67 COMPATIBLE)	
AMPLIFIER OUTPUTS	4 x Neutrik Speakon™ NL4
Audio Performance	
DYNAMIC RANGE	>113dBA, analogue input >114dB AES/Dante™ input
FREQUENCY RESPONSE	7Hz-30kHz (-2.5dB points, 4 ohm load)
TOTAL HARMONIC DISTORTION	<0.05% typical @ 1kHz, 4 ohm load
SLEW RATE	>60V per microsecond
DAMPING FACTOR	>800 at amplifier output, ref 8 ohms
Control and Monitoring Network	
PROTOCOL	Ethernet
CONTROL APPLICATION	Martin Audio VU-NET™
Digital Signal Processing	
SAMPLE RATE	96kHz (48kHz for FIR filter implementation)
AUDIO INPUTS	4 x analogue, 1 x AES pair with link output, 4 x Dante™ inputs routable to 4 x input DSP
DRIVE MODULE INPUT DSP	Input signal routing, delay, gain, HPF, Phase, Mute EQ: 2 x low shelf, 6 x PEQ/bandpass and FIR shelving filters
DRIVE MODULE OUTPUT DSP	Source, delay, gain, Phase, Mute, crossover filters, limiters. EQ: low shelf, 8 x PEQ / band pass and shelving filters
Power Supply	
TYPE	High performance Series Resonant
AC INPUT OPERATING RANGE	85 – 240V ~ AC, 47 – 63Hz
MAINS INRUSH CURRENT	6A at 115V, 12A at 230V (max for <10ms)
MAINS CONNECTOR	Neutrik 32A Powercon™
Physical	
DIMENSIONS	(W) 482 x (H) 2U/88mm x (D) 441mm (W) 18.98in x (H) 2U/3.46in x (D) 17.35in incl handles and optional rear support
WEIGHT	12.5kg (27.5lbs)

iK42

General	
TYPE	Four-channel Class D amplifier
POWER OUTPUT*	5000W into 2 ohms 3000W into 4 ohms 1500W into 8 ohms 750W into 16 ohms 10000W bridged per channel pair, 4 ohms 6000W bridged per channel pair, 8 ohms
CV LINE OUTPUT*	1250W, 25V line 3500W, 70V line 5000W, 100V line
DIGITAL SIGNAL PROCESSING	96kHz/48kHz DSP on all inputs and outputs
COOLING	Dual vari-speed fans, front-to-back airflow
MAXIMUM AMBIENT TEMPERATURE	40°C (105°F)
Audio Inputs/Outputs	
ANALOGUE IN/LINK (4 CHANNELS)	4 x female, 4 x male Neutrik™ XLR
ANALOGUE INPUT IMPEDANCE	20kΩ balanced to ground
MAXIMUM ANALOGUE INPUT LEVEL	+20dBu
AES3 IN/LINK (2 CHANNELS)	1 x female, 1 x male Neutrik™ XLR, balanced
DANTE™ (4 CHANNELS)	2 x shielded RJ45, primary and secondary
(AES67 COMPATIBLE)	
AMPLIFIER OUTPUTS	4 x Neutrik Speakon™ NL4
Audio Performance	
DYNAMIC RANGE	>113dBA, analogue input >114dB AES/Dante™ input
FREQUENCY RESPONSE	7Hz-30kHz (-2.5dB points, 4 ohm load)
TOTAL HARMONIC DISTORTION	<0.05% typical @ 1kHz, 4 ohm load
SLEW RATE	>60V per microsecond
DAMPING FACTOR	>800 at amplifier output, ref 8 ohms
Control and Monitoring Network	
PROTOCOL	Ethernet
CONTROL APPLICATION	Martin Audio VU-NET™
Digital Signal Processing	
SAMPLE RATE	96kHz (48kHz for FIR filter implementation)
AUDIO INPUTS	4 x analogue, 1 x AES pair with link output, 4 x Dante™ inputs routable to 4 x input DSP
DRIVE MODULE INPUT DSP	Input signal routing, delay, gain, HPF, Phase, Mute EQ: 2 x low shelf, 6 x PEQ/bandpass and FIR shelving filters
DRIVE MODULE OUTPUT DSP	Source, delay, gain, Phase, Mute, crossover filters, limiters. EQ: low shelf, 8 x PEQ / band pass and shelving filters
Power Supply	
TYPE	High performance Series Resonant
AC INPUT OPERATING RANGE	85 – 240V ~ AC, 47 – 63Hz
MAINS INRUSH CURRENT	6A at 115V, 12A at 230V (max for <10ms)
MAINS CONNECTOR	Neutrik 32A Powercon™
Physical	
DIMENSIONS	(W) 482 x (H) 2U/88mm x (D) 441mm (W) 18.98in x (H) 2U/3.46in x (D) 17.35in incl handles and optional rear support
WEIGHT	12.5kg (27.5lbs)

iK81

General	
TYPE	Eight-channel Class D amplifier
POWER OUTPUT*	1250W into 2 ohms 1250W into 4 ohms 1250W into 8 ohms 625W into 16 ohms 2500W bridged per channel pair, 4 ohms 2500W bridged per channel pair, 8 ohms
CV LINE OUTPUT*	625W, 25V line 1250W, 70V line 1250W, 100V line
DIGITAL SIGNAL PROCESSING	96kHz/48kHz DSP on all inputs and outputs
COOLING	Dual vari-speed fans, front-to-back airflow
MAXIMUM AMBIENT TEMPERATURE	40°C (105°F)
Audio Inputs/Outputs	
ANALOGUE IN/LINK (4 CHANNELS)	4 x female, 4 x male Neutrik™ XLR
ANALOGUE INPUT IMPEDANCE	20kΩ balanced to ground
MAXIMUM ANALOGUE INPUT LEVEL	+20dBu
AES3 IN/LINK (2 CHANNELS)	1 x female, 1 x male Neutrik™ XLR, balanced
DANTE™ (8 CHANNELS)	2 x shielded RJ45, primary and secondary
(AES67 COMPATIBLE)	
AMPLIFIER OUTPUTS	4 x Neutrik Speakon™ NL4
Audio Performance	
DYNAMIC RANGE	>113dBA, analogue input >114dB AES/Dante™ input
FREQUENCY RESPONSE	7Hz-30kHz (-2.5dB points, 4 ohm load)
TOTAL HARMONIC DISTORTION	<0.05% typical @ 1kHz, 4 ohm load
SLEW RATE	>60V per microsecond
DAMPING FACTOR	>800 at amplifier output, ref 8 ohms
Control and Monitoring Network	
PROTOCOL	Ethernet
CONTROL APPLICATION	Martin Audio VU-NET™
Digital Signal Processing	
SAMPLE RATE	96kHz (48kHz for FIR filter implementation)
AUDIO INPUTS	4 x analogue, 1 x AES pair with link output, 8 x Dante™ inputs (4 x inputs routable to 4 x input DSP, 4 x inputs routable to output DSP)
DRIVE MODULE INPUT DSP	Input signal routing, delay, gain, HPF, Phase, Mute EQ: 2 x low shelf, 6 x PEQ/bandpass and FIR shelving filters
DRIVE MODULE OUTPUT DSP	Source, delay, gain, Phase, Mute, crossover filters, limiters. EQ: low shelf, 8 x PEQ / band pass and shelving filters
Power Supply	
TYPE	High performance Series Resonant
AC INPUT OPERATING RANGE	85 – 240V ~ AC, 47 – 63Hz
MAINS INRUSH CURRENT	6A at 115V, 12A at 230V (max for <10ms)
MAINS CONNECTOR	Neutrik 32A Powercon™
Physical	
DIMENSIONS	(W) 482 x (H) 2U/88mm x (D) 441mm (W) 18.98in x (H) 2U/3.46in x (D) 17.35in incl handles and optional rear support
WEIGHT	12.5kg (27.5lbs)

* RMS output power per channel, all channels driven with continuous program material and a nominal ambient temperature of 40°C /105°F



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Unite Your Audience
The Martin Audio Experience



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