

XE300

Stage Monitor – Two-way, bi-amp/passive, Coaxial Differential Dispersion

Features

- Very high-SPL, compact two-way stage monitors
- Coaxial 'point source' performance
- Differential Dispersion™ technology for consistent coverage
- Defined, rectangular coverage plane at head-height
- Complete system with iK42 for consistent high performance
- Visually-appealing, low-profile plywood enclosures
- Built-in risers for steeper monitor angle when required
- Side panel rubber feet for extra protection when up-ended
- Easy to carry and manoeuvre
- M8 rigging inserts

Applications

- Stage monitor

The XE300 is the definitive, high-performance compact monitor. It features a high-specification 12" (300mm) LF /1.4" exit HF Coaxial Differential Dispersion driver to deliver perfect sound over the artist's listening plane. The LF driver section has a 3" (75mm) voice coil and efficient motor with an aluminium demodulating ring to minimise distortion, while the HF driver utilises a 1.4" (35mm) exit HF compression driver with a 3" (75mm) pure titanium diaphragm.

Its unique Coaxial Differential Dispersion technology produces a horizontal coverage pattern which varies from 60° when the performer is directly over the monitor, narrowing to 30° further back. This narrowing delivers a near-rectangular coverage plane at head-height to maintain the sound level and balance independent of distance from the monitor.

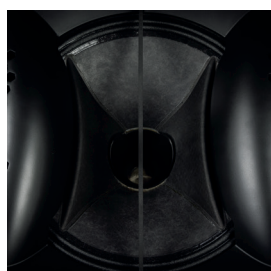
The XE300 enclosure is constructed from multi-laminate birch ply, with integral ergonomic handles and finished with a hard-wearing paint. A strong, perforated steel grille with an acoustically transparent cloth backing provides protection for the Coaxial Differential Dispersion driver, while moulded feet on



the base prevent movement onstage with additional rubber feet on the side panels providing added protection if the monitor is upended when carrying.

Frontal reflex ports couple with the floor to increase LF output and inbuilt risers can be used to increase the monitoring angle for longer-throw applications.

XE Series monitors are designed as a complete system with the iK42 4-channel Class D Amplifier, offering a unique combination of power and audio performance seamlessly combined with advanced DSP, proprietary VU-NET™ software control and Dante™ digital audio networking. State of the art components and a finely optimised design results in generous power reserves that ensures pristine sound quality is maintained even under the most extreme conditions. As well as maximising the capability of the monitor, this ensures that the monitor engineer and artist can be confident that they will experience this same high level of consistent performance from an XE monitor anywhere in the world.



XE300

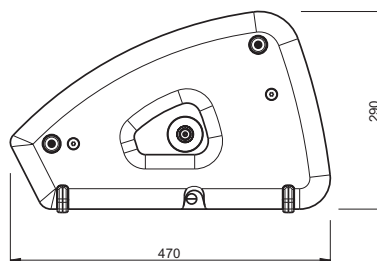
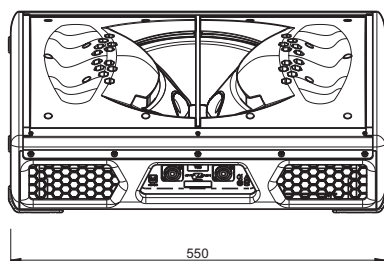
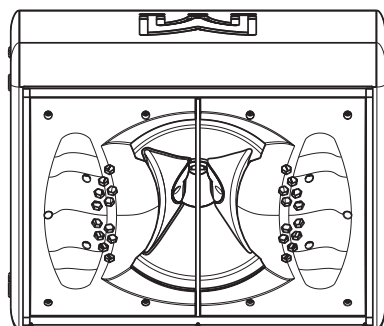
Stage Monitor – Two-way, bi-amp/passive, Coaxial Differential Dispersion

Technical Specifications

TYPE	Two-way, bi-amp/passive, Coaxial Differential Dispersion stage monitor
FREQUENCY RESPONSE (3)	67Hz-18kHz $\pm$ 3dB -10dB @ 55Hz
DRIVERS	LF: 12" (300mm)/3" (75mm) voice coil, dual-gap neodymium motor system HF: 1.4" (35mm) exit/3" (75mm) voice coil, titanium dome compression driver
RATED POWER (2)	LF: 350W AES, 1400W peak HF: 80W AES, 320W peak
SYSTEM AMPLIFIER	iKON® iK42
MAXIMUM SPL (9)	Bi-amp: 140dB peak. Passive: 139dB peak
NOMINAL IMPEDANCE	LF/FR: 6 ohms, HF: 8ohms
DISPERSION (-6dB)	60-30° horizontal, 90° vertical
CROSSOVER	1.1kHz
ENCLOSURE	Birch/beech ply and hardwood
FINISH	Textured black paint
PROTECTIVE GRILLE	Black perforated steel with scrim cloth backing
BAFFLE ANGLE	27.5° (40° with risers)
CONNECTORS	4 x NL4 type
PIN CONNECTIONS	LF/FR: 1+/-, HF: 2+/-
FITTINGS	2 x pocket handles Protective rubber feet on base and sides Built-in risers 4 x M8 inserts
DIMENSIONS	(W) 550mm x (H) 290mm x (D) 470mm (W) 21.7ins x (H) 11.4ins x (D) 18.5ins
DIMENSION INCL FEET	(W) 556mm x (H) 293mm x (D) 470mm (W) 21.9ins x (H) 11.5ins x (D) 18.5ins
WEIGHT	19kg (41.9lbs)
ACCESSORIES	Eyebolts

iK42 Amplifier

General	
TYPE	Four-channel Class D amplifier
TOTAL OUTPUT POWER	20,000 Watts RMS, all channels driven
DIGITAL SIGNAL PROCESSING	96kHz DSP on all inputs and outputs
COOLING	Dual vari-speed fans, front-to-back airflow
MAXIMUM AMBIENT TEMPERATURE	40°C (104°F)
Audio Inputs/Outputs	
ANALOGUE IN/LINK (4 CHANNELS)	4 x female, 4 x male Neutrik™ XLR
ANALOGUE INPUT IMPEDANCE	20k Ω balanced to ground
MAXIMUM ANALOGUE INPUT LEVEL	+20dBu
NOMINAL SYSTEM GAIN	32dB
AES3 IN/LINK (2 CHANNELS)	1 x female, 1 x male Neutrik™ XLR, balanced
DANTE™ (4 CHANNELS)	2 x shielded RJ45, primary and secondary
AMPLIFIER OUTPUTS	4 x Neutrik Speakon™ NL4
Control and Monitoring Network	
PROTOCOL	Ethernet
CONTROL APPLICATION	Martin Audio VU-NET™
Power Supply	
TYPE	High performance Series Resonant
AC INPUT OPERATING RANGE	85 – 240V ~ AC, 47 - 63Hz
MAINS INRUSH CURRENT	6A at 15V, 12A at 230V (max for <10ms)
MAINS CONNECTOR	Neutrik 32A Powercon™
Physical	
DIMENSIONS	(W) 483 x (H) 2U/89mm x (D) 357mm (W) 19in x (H) 2U/3.5in x (D) 14.1in incl handles and optional rear support
WEIGHT	12.5kg (27.5lbs)



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.

Trade Descriptions Act

Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice. Martin Audio is committed to refining state of the art sound reinforcement, combining in-depth product and field applications research with advanced manufacturing techniques. Every Martin Audio product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.

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