

XE300

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

Features

- Very high-SPL, compact two-way stage monitor
- 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.

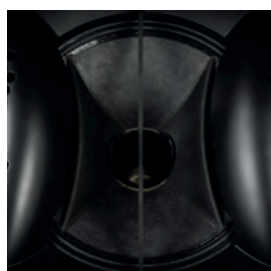
The XE300 enclosure is constructed from multi-laminate birch ply, with integral ergonomic handles and finished with a hard-wearing paint. A strong, perforated steel grille with an acoustically transparent cloth backing provides protection for the Coaxial Differential Dispersion driver, while moulded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



the base prevent movement onstage with additional rubber feet on the side panels providing added protection if the monitor is up-ended 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.

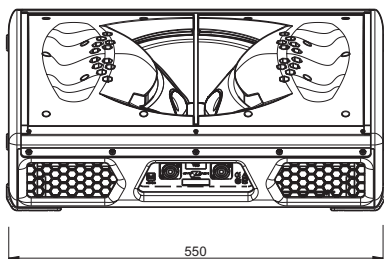
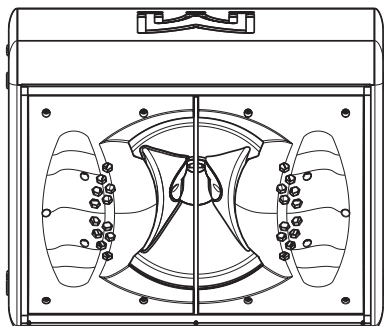


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Technical Specifications

| | |
|------------------------|--|
| 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 |

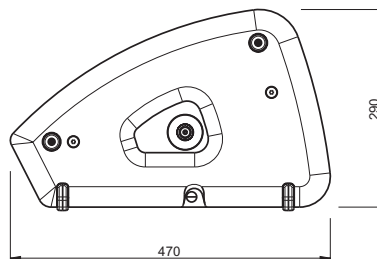


iK42 Amplifier

| | |
|---------------------------------------|---|
| 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 115V, 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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