

XE500



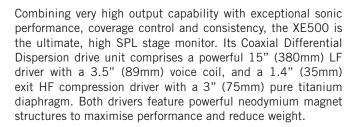
Stage Monitor – Two-way, bi-amp, Coaxial Differential Dispersion

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



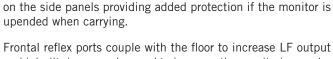
· Stage monitor



Utilising Coaxial Differential Dispersion technology, the XE500's horizontal coverage varies from 60° directly over the monitor, narrowing to 30° further back. This not only maintains the sound level and balance independent of distance from the monitor, it produces a well-contained coverage 'corridor' at head-height. A patent-pending, contour-moulded static third waveguide greatly increases the effective size of the horn mouth to extend pattern control down to 500Hz, reducing sound spill outside the 'corridor'.

The XE500 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

and inbuilt risers can be used to increase the monitoring angle.

Easy to manoeuvre, its exceptional performance and 'corridor' coverage make the XE500 the new definitive, high SPL stage monitor.

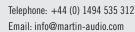
XE Series monitors are designed as a complete system with the iK42 4-channel Class D Amplifier, offering a unique combination of power and audio performance seamlessly combined with advanced DSP, proprietary VU-NET™ software control and Dante™ digital audio networking. State of the art components and 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.















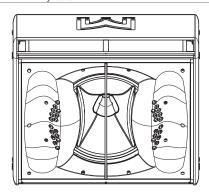
XE500



Stage Monitor - Two-way, bi-amp, Coaxial Differential Dispersion

Technical Specifications

| TVDE | T 1: 0 : 10:11 1: 10: : | |
|------------------------|--|--|
| TYPE | Two-way, bi-amp, Coaxial Differential Dispersion | |
| | stage monitor | |
| FREQUENCY RESPONSE (3) | 62Hz-18kHz ± 3dB | |
| | -10dB @ 45Hz | |
| DRIVERS | LF: 15" (380mm)/3.5" (89mm) voice coil, dual-gap | |
| | neodymium motor system | |
| | HF: 1.4" (35mm) exit/3" (75mm) voice coil, titanium dome | |
| | compression driver | |
| RATED POWER (2) | LF: 550W AES, 2200W peak | |
| | HF: 80W AES, 320W peak | |
| SYSTEM AMPLIFIER | iKON® iK42 | |
| MAXIMUM SPL (9) | 143dB peak | |
| NOMINAL IMPEDANCE | LF: 4 ohms, HF: 8ohms | |
| DISPERSION (-6dB) | 60-30° horizontal, 70° vertical | |
| CROSSOVER | 1.1kHz active | |
| ENCLOSURE | Birch/beech ply and hardwood | |
| FINISH | Textured black paint | |
| PROTECTIVE GRILLE | Black perforated steel with scrim cloth backing | |
| BAFFLE ANGLE | 30° (40° with risers) | |
| CONNECTORS | 4 x NL4 type | |
| PIN CONNECTIONS | LF: 1+/-, HF: 2+/- | |
| FITTINGS | 2 x bar handles | |
| | Protective rubber feet on base and sides | |
| | Built-in risers | |
| | 4 x M8 inserts | |
| DIMENSIONS | (W) 635mm x (H) 364mm x (D) 583mm | |
| | (W) 25.0ins x (H) 14.3ins x (D) 22.9ins | |
| DIMENSIONS INCL FEET | (W) 641mm x (H) 367mm x (D) 583mm | |
| | (W) 25.2ins x (H) 14.4ins x (D) 22.9ins | |
| WEIGHT | 29kg (63.9lbs) | |
| ACCESSORIES | Evebolts | |



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 | 20kΩ 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 Networ | k |
| PROTOCOL 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) |
| | |

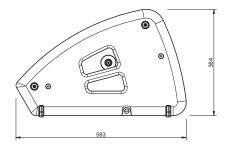
- Notes
 (1) Measured on-axis in half (2pi) space at 2 metres, then referred to 1 metre.
 (2) AES Standard ANSI S4.26-1984.
 (3) Measured in half (2pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
 (4) Measured in half (2pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- Measured on-axis in open (4pi) space at 2 metres, then referred to 1 metre.

 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.



Century Point, Halifax Road, High Wycombe Buckinghamshire HP12 3SL, England

Telephone: +44 (0) 1494 535 312 Email: info@martin-audio.com

