WTUB
Compact theatre under-balcony enclosure

features
- Seamless coverage over 120°
- High SPL from compact enclosure
- High frequency line array with proprietary diffusion phase plug
- Switchable input configuration
- Dedicated hardware for under-balcony and ceiling mounting
- Multi-laminate birch ply construction

applications
- Under-balcony fill in theatre sound systems
- Wide dispersion infill
- Speech and music reinforcement in conference venues

The Wavefront Theatre WTUB enclosure has been specifically designed for under-balcony use in theatres and infill in venues requiring extremely wide horizontal coverage. The WTUB loudspeaker provides sound reinforcement for speech and music with exceptionally consistent tonal balance over the whole of its coverage angle. It also shares the same tonal characteristics as the larger members of the WT range, the WT2 and 3.

The unusual driver complement and geometry is responsible for the uniform coverage of the enclosure. A triple soft dome, high frequency line array coupled with a proprietary diffusion phase plug gives very wide horizontal and tight vertical dispersion. Its narrow width allows minimal separation between the two 6.5" (165mm) cone drivers. This factor and the drivers’ 60° splay are responsible for the seamless horizontal coverage of the WTUB. The two 6.5" (165mm) drivers feature 1.5" (38mm) voice coils and an innovative heat exchange system to reduce power compression. A combination of ferrofluid and a rear mounted heatsink cools the high frequency line array’s neodymium magnet assembly, with extreme high frequency overload being dealt with by an auto-resetting over-current device.

Featuring fully passive operation and requiring no controller, the WTUB is extremely straightforward to deploy. The enclosure input configuration is externally switchable between pins 1 and 2 on the fitted Neutrik NL4MP connectors. This allows daisy-chaining of cabinets via a 4 core cable, even when they are fed with different input signals.

The rugged, multi-laminate birch ply enclosure features M8 inserts for the dedicated mounting bracket and an additional M8 ‘safety chain’ point. The multi-angled cabinet rear allows close proximity ceiling mounting with a downward tilt of up to 45°. A pole mount socket gives the additional option of tripod stand mounting.
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overall dimensions

2 OFF HOLES Ø8.50mm (0.35”)
1 OFF HOLE Ø12.50mm (0.49”)
4 OFF HOLES Ø5.00mm (0.20”)

516mm [20.31”]
488mm [19.21”]
342mm [13.45”]
177mm [6.97”]
53mm [2.09”]
1 OFF M8 THREADED INSERT

30mm [1.18”]
350mm [13.78”]

257mm [10.12”]
212mm [8.35”]

190mm [7.48”]

WTUB
The loudspeaker system shall be of the two-way passive type consisting of two 6.5" (165mm) direct radiating reflex loaded low frequency transducers and one triple element high frequency line array coupled with a proprietary diffusion phase plug mounted in a multi-angled plywood enclosure. The enclosure shall be fitted with an integral pole mounting socket and supplied with a flying yoke. Input connector configuration shall be externally selected by a switch at the rear of the enclosure. Low and high frequency sections shall be integrated by an internal 1.2kHz passive crossover network.

Performance of the loudspeaker system with its electronic controller shall meet or exceed the following criteria:

- **Frequency response measured 1 metre on axis shall be 80Hz-18kHz ±3dB.**
- **High frequency dispersion at -6dB points shall be 120° horizontal, 40° vertical.**
- **Power handling shall be 200W AES, 800W peak.**
- **Rated impedance shall be 8 ohms.**
- **Maximum SPL measured at 1 metre on axis shall be 116dB continuous, 122dB peak.**
- **Dimensions (W) 480mm x (H) 212mm x (D) 344mm (18.9ins x 8.4ins x 13.6ins).**
- **Weight 12kg (26.4lbs).**

The loudspeaker system shall be the Martin Audio WTUB.