WT2
Arrayable two-way compact theatre enclosure

features
❖ Arrayable compact trapezoid enclosure
❖ High SPL output capability
❖ 70° coverage angle
❖ Multi-laminate birch plywood construction
❖ Switchable active/passive operation
❖ Certified MAN quick-connect flying option

applications
❖ Theatre sound systems
❖ Club sound reinforcement
❖ Music playback in nightclubs

The WT2 is a powerful, compact theatre system which can be used as a stand-alone enclosure in a distributed system or arrayed in multiples. The switchable active/passive two-way cabinet is very efficient, combining smooth dynamic full-frequency performance with excellent articulation, utilising high power drive units for maximum SPL.

Optimum performance is achieved with the DX1.5 or DX2 controller configured for the WT2 to perform system specific equalisation, phase adjustment, crossover and limiter functions. With a Wavefront Series sub-bass system, ultra-low frequency enhancement takes the power bandwidth to below 35Hz.
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WT2 Vertical
- 200Hz & 1/3 oct smoothing
- 400Hz & 1/3 oct smoothing
- 800Hz & 1/3 oct smoothing
- 1600Hz & 1/3 oct smoothing
- 3200Hz & 1/3 oct smoothing
- 6400Hz & 1/3 oct smoothing
- 12800Hz & 1/3 oct smoothing

WT2 Horizontal
- 200Hz & 1/3 oct smoothing
- 400Hz & 1/3 oct smoothing
- 800Hz & 1/3 oct smoothing
- 1600Hz & 1/3 oct smoothing
- 3200Hz & 1/3 oct smoothing
- 6400Hz & 1/3 oct smoothing
- 12800Hz & 1/3 oct smoothing
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frequency responses
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overall dimensions

Centurion Point, Halifax Road, Cressex Business Park,
Telephone: +44 (0)1494 535312  Facsimile: +44 (0)1494 438669
E-mail: info@martin-audio.com
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www.martin-audio.com
technical specifications

**TYPE**
Compact two-way trapezoid, passive/bi-amp

**FREQUENCY RESPONSE (5)**
70Hz-18kHz ± 3dB, -10dB @ 52Hz

**DRIVERS**
12" (300mm) / 3" (75mm) voice coil LF
1" (25mm) exit HF compression driver

**RATED POWER (2)**
LF/(LF + HF): 400W AES, 1200W peak
HF: 60W AES, 240W peak

**RECOMMENDED AMPLIFIER**
MA3.0

**SENSITIVITY (6)**
LF/(LF + HF): 98dB
HF: 107dB

**MAXIMUM SPL (calculated @ 1m)**
124dB continuous, 130dB peak

**NOMINAL IMPEDANCE**
LF/(LF + HF): 8 ohms
HF: 8 ohms

**DISPERSION (-6dB)**
70° horizontal, 40° vertical

**CROSSOVER**
2kHz active/passive

**FINISH**
Textured black paint

**PROTECTIVE GRILLE**
Black perforated steel

**CONNECTORS**
2 x Neutrik NL4

**FITTINGS**
10 x M8 threaded inserts
1 x mounting pole socket
2 x MAN blanking plates
2 x rear kelp fittings
2 x front lid fittings

**DIMENSIONS**
(W) 365mm x (H) 554mm x (D) 364mm
(W) 14.4ins x (H) 21.8ins x (D) 14.3ins

**WEIGHT**
24.5kg (54lbs)

architectural and engineering specifications

The loudspeaker system shall be of the two-way switchable active/passive type consisting of one 12" (300mm) direct radiating reflex loaded low frequency transducer and one 1" (25mm) exit HF compression driver mounted on a constant directivity horn in a trapezoidal plywood enclosure. The enclosure shall be fitted with an integral pole mounting socket and threaded inserts to facilitate a variety of mounting options. Active or passive operation shall be selected by a switch at the rear of the enclosure. In active mode the loudspeaker shall be bi-amped and operated with a separate electronic controller. In passive mode, low and high frequency sections shall be integrated by an internal 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**
  70Hz-18kHz ±3dB.
- **High frequency dispersion at -6dB points shall be**
  70°H x 40°V.
- **Power handling shall be**
  400W AES, 1600W peak
  LF/(LF+HF), 60W AES, 240W peak HF.
- **Rated impedance shall be**
  8 ohms LF/(LF+HF), 8 ohms HF.
- **Maximum SPL measured at 1 metre on axis shall be**
  124dB continuous, 130dB peak.
- **Dimensions (W) 365mm x (H) 554mm x (D) 364mm**
  (14.4ins x 21.8ins x 14.3ins).
- **Weight 24.5kg (54lbs).**

The loudspeaker system shall be the Martin Audio WT2.

Notes
(1) Measured on-axis in half space at 2 metres, then referred to 1 metre.
(2) AES Standard ANSI S 30-1984.
(3) Measured in half space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
(4) Measured in half space at 2 metres using band limited pink noise, then referred to 1 metre.
(5) Measured on-axis in open (4π) space at 2 metres, then referred to 1 metre.
(6) Measured in open (4π) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
(7) Measured in open (4π) space at 2 metres using band limited pink noise, then referred to 1 metre.
(8) Measured in open (4π) space at 2 metres with 2.83V input, using band limited pink noise, then referred to 1 metre.
(9) Calculated at 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.

Telephone: +44 (0)1494 535312 Facsimile: +44 (0)1494 438669
E-mail: info@martin-audio.com
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