Technical Information

Thump12BST / Thump15BST Loudspeakers Specifications

Acoustic Performance

Frequency Range (–10 dB):	50 Hz – 23 kHz [Thump12BST] 32 Hz – 23 kHz [Thump15BST]
Frequency Range (–3 dB):	57 Hz – 20 kHz [Thump12BST] 39 Hz – 20 kHz [Thump15BST]
Horizontal Coverage Angle:	90°
Vertical Coverage Angle:	60°
Maximum SPL Peak:	126 dB [Thump12BST] 127 dB [Thump15BST]
Monitor Angle	45°

Transducers

Low Frequency:	12 in / 305 mm [Thump12BST] 15 in / 381 mm [Thump15BST] with ferrite
High Frequency:	1.4 in / 36 mm Titanium dome compression driver

Power Amplifiers

System Power Amplification	
Rated Power	1300 watts peak
Low Frequency Power Amplifier	
Rated Power:	1000 watts peak
Rated THD	< 1%
Cooling	Convection
Design:	Class D
High Frequency Power Amplifier	
Rated Power:	300 watts peak
Rated THD	< 1%
Cooling	Convection
Design:	Class AB

System Processing

Channel EQ	3-band, HPF
Main EQ	6 speaker modes
Loudspeaker Link	Stereo / Zone [BT Mode]
LCD Settings	Screen Saver / Home Screen

Equalization

Low	±12 dB @ 80 Hz
Mid	±12 dB @ 2.5 kHz
High	±12 dB @ 6 kHz [Ch. 1/2] ±12 dB @ 12 kHz [Bluetooth]
Increments	±1 dB
HPF	20 Hz – 400 Hz @12 dB / octave [Ch. 1/2 only]

Input/Output

Input Type:	2x Female XLR Balanced / 1/4" Unbalanced
Mic-Line Impedance:	8 kΩ balanced
1/4" TS, Wide-Z™ Impedance:	1 MΩ unbalanced
Mix Out:	Male XLR Balanced
Mix Out Impedance:	600 Ω balanced
Main Control:	Rotating knob

Electronic Crossover

Crossover Type:	24 dB/octave
Crossover Frequency:	2 kHz

Line Input Power

Detachable line cord	100 – 240 VAC, 50 – 60 Hz, 75W
AC Connector	3-pin IEC 250 VAC, 10 A male
Power Supply Type	Switchmode

Safety Features

Input Protection	Peak and RMS limiting, power supply and amplifier thermal protection
Display LEDs	Defeatable front power, Speaker Control
Status Info	Input and output levels, EQ speaker voicing

Bluetooth Information

Bluetooth Protocol	3.0
Bluetooth Function	Audio Streaming and User Interface Control
Bluetooth Class	Class 1

Construction Features

Basic Design:	Trapezoidal
Material:	Polypropylene
Finish:	Black, textured finish
Handles:	One on each side, one on top, one on bottom
Grille:	Perforated metal with weather-resistant coating
Display LEDs	
Front:	Power ON
Rear:	Speaker Control
Operating Temperature:	0 – 40 °C 32 – 104 °F

Thump Loudspeaker Specifications continued...

Physical Properties

Thump12BST:

Height:	24.2 in / 615 mm
Width:	14.1 in / 358 mm
Depth:	14.0 in / 356 mm
Weight:	29.3 lb / 13.3 kg

Thump15BST:

Height:	27.0 in / 686 mm
Width:	17.4 in / 442 mm
Depth:	14.0 in / 356 mm
Weight:	35.1 lb / 15.9 kg

Mounting Methods:

Floor mount, pole mount via the built-in socket on the bottom of the cabinet [Be sure the pole is capable of supporting the weight of the Thump loudspeaker] or fly via three integrated M10 mounting points (using M10 x 1.5 x 20 mm forged shoulder eyebolts).

See page 23 for more information.

Options

Thump12BST Speaker Bag	P/N 2047360-09
Thump12BST Rolling Speaker Bag	P/N 2047360-10
Thump15BST Speaker Bag	P/N 2047360-11
Thump15BST Rolling Speaker Bag	P/N 2047360-12
SPM200 Loudspeaker Pole Mount	P/N 2035170-01
PA-A1 Forged Shoulder Eyebolt Kit (3 x M10 x 1.5 x 20 mm)	P/N 0031943

Disclaimer

Since we are always striving to make our products better by incorporating new and improved materials, components, and manufacturing methods, we reserve the right to change these specifications at any time without notice.

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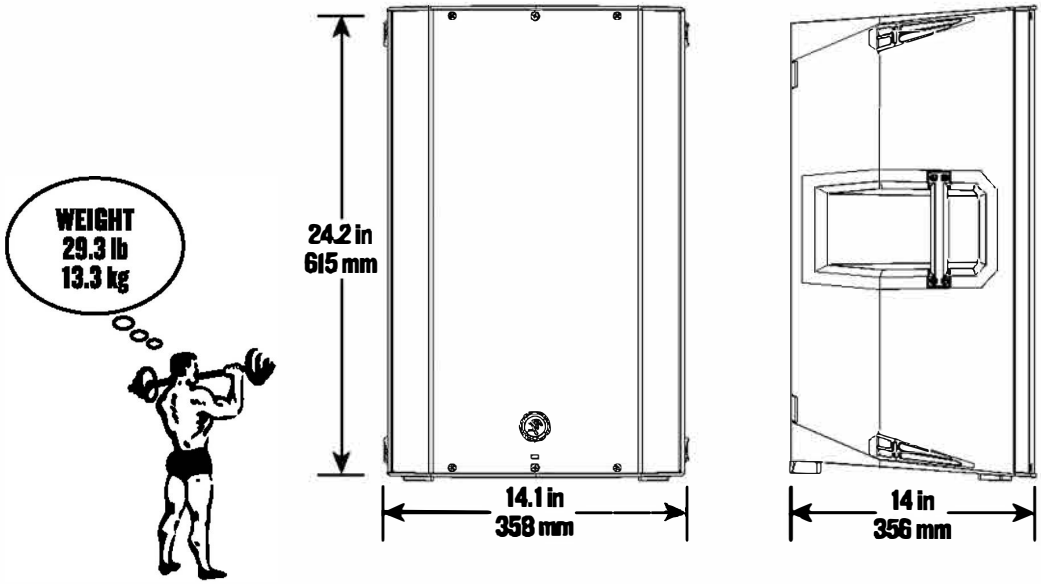
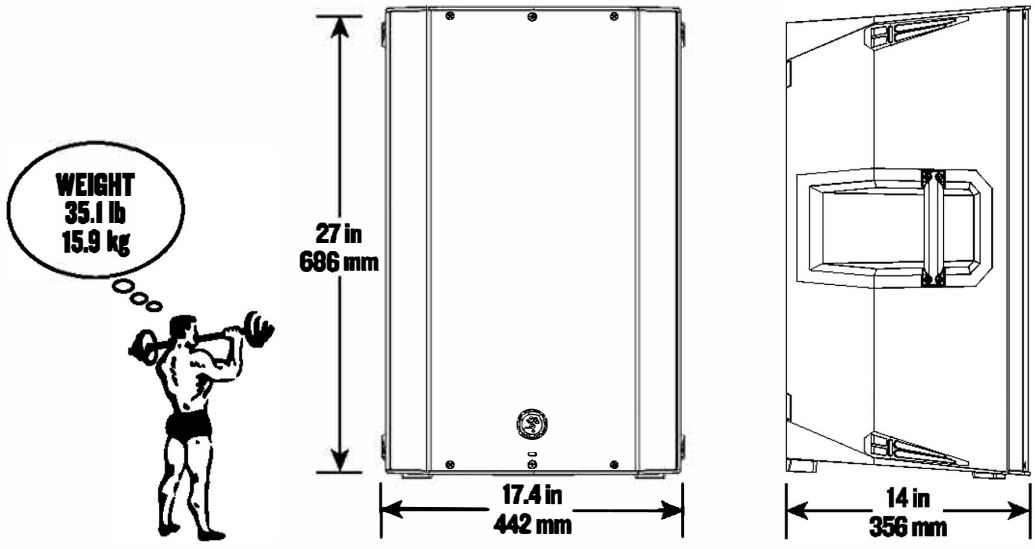
Thump12BST Loudspeaker Dimensions



Thump15BST Loudspeaker Dimensions



Thump12BST and Thump15BST Loudspeaker Frequency Response Legend

Music Speaker Mode – This mode is full range, but focuses on increased bass and brilliant high frequencies. This is the place to start for most DJ / music playback applications.

Live Speaker Mode – This mode features a low frequency roll-off to get rid of unwanted thumps and adds boost and sparkle to mid-range and high frequencies. This mode is perfect for plug-and-play singer-songwriters.

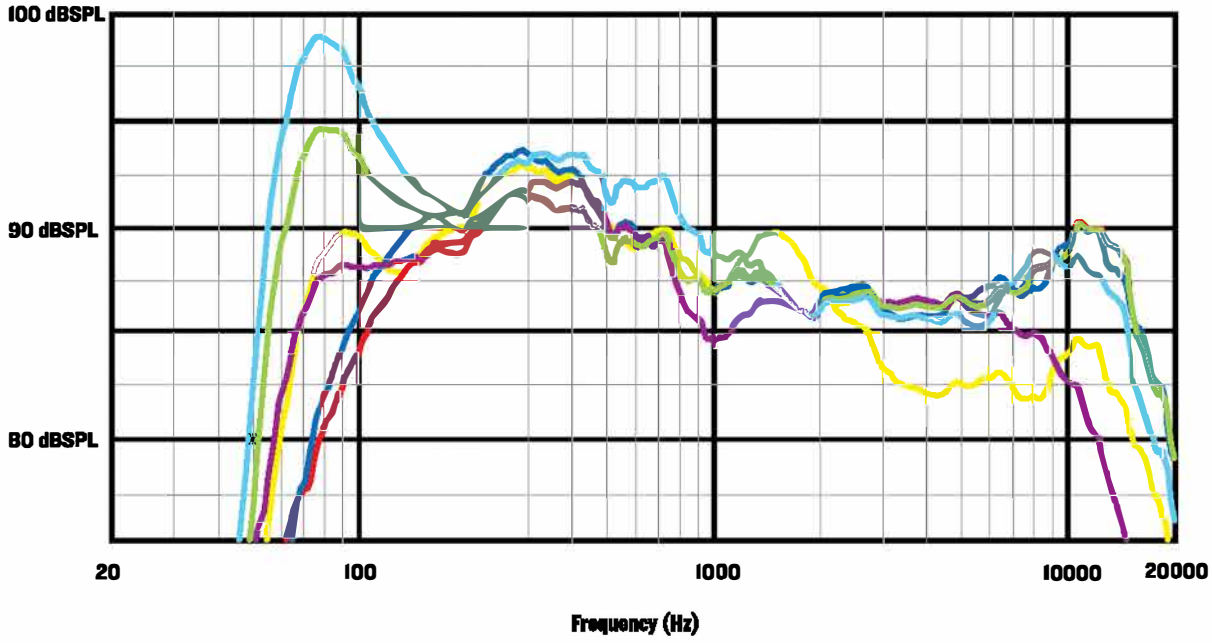
Monitor Speaker Mode – This mode features a low frequency roll-off and a reduction around 2 kHz to ensure maximum gain before feedback in monitor applications.

Music + Sub Speaker Mode – This mode rolls off the low end of the ThumpBST loudspeaker to match properly with the Thump18S subwoofer.

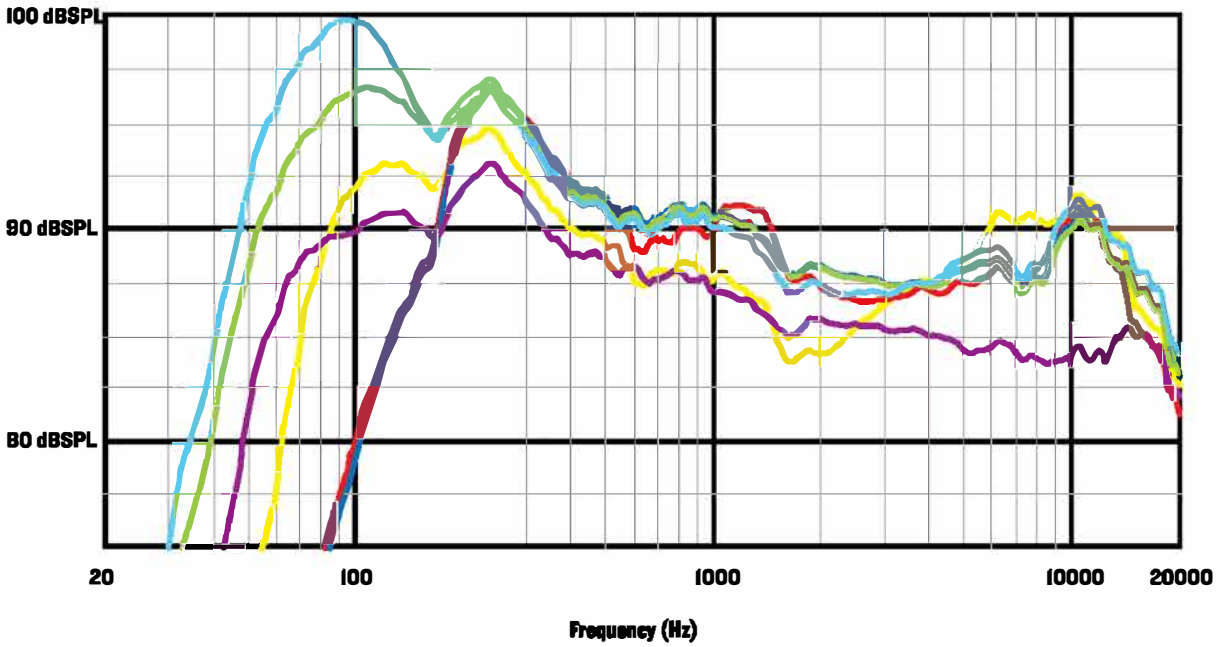
Live + Sub Speaker Mode – This mode rolls off the low end of the ThumpBST loudspeaker to match properly with the Thump18S subwoofer.

Speech Speaker Mode – This mode features a significant low frequency roll-off to get rid of unwanted thumps. It also adds boost and sparkle to mid-range and high frequencies, critical for speech applications. This plug-and-play mode is perfect for larger venue applications where speech is the primary audio source in need of clear and precise intelligibility.

Thump12BST Loudspeaker Frequency Response



Thump15BST Loudspeaker Frequency Response



Thump12BST / Thump15BST Loudspeakers Block Diagram