

XT800-T64 XT800-T32 XT800-8 | Technical Information For System Engineers



XT800-T64, XT800-T32 & XT800-8 are line item products; 8 Ohm or transformer models must be specified at time of order.

Specifications: XT800-T64, XT800-T32 & XT800-8

System Type	8" 2-way outdoor (8 Ohm, 32 or 64 Watt transformer for 70.7/100 Volt applications)						
Frequency Response (-3 dB) ⁽¹⁾ :	60 Hz – 20 kHz						
Frequency Response (-6dB) ⁽¹⁾ :	50 Hz – 20 kHz						
Low Frequency (-10 dB) ⁽²⁾ :	38 Hz						
Max Program Power:	200 W						
Max Continuous Power RMS:	100 W						
Max SPL dB @ 1m:	105 dB						
Sensitivity dB @ 1w/1m ⁽³⁾ :	85 dB						
Impedance:	8 Ohm (nominal value).						
Transformer Taps	Selectable via tap wires.						
Model T-32	Output	100 V	Output	Model T-64	Output	100 V	Output
70.7 V	32 W 100 dB	n/a	n/a	70.7 V	64 W 103 dB	n/a	n/a
	16 W 97 dB	32 W	100 dB		32 W 100 dB	64 W	103 dB
	8 W 94 dB	16 W	97 dB		16 W 97 dB	32 W	100 dB
	4 W 91 dB	8 W	94 dB		8 W 94 dB	16 W	97 dB
Coverage Angle:	360° horizontal coverage pattern						
Transducers							
Low Frequency Driver:	1 x 200mm (8") polypropylene cone, rubber surround						
High Frequency Driver:	1 x 25mm (1") silk dome						
Crossover Frequency:	2.4 kHz						
Network Type							
Low Pass:	Custom DiAural						
High Pass:	Custom DiAural						
Inputs:	Selectable tap wire						
Enclosure:	Roto-molded polyethylene plastic						
Color:	Green granite, custom colors available						
Maximum Dimensions							
Diameter:	368mm (14.5")						
Length:	450mm (17.7")						
Net Weight:	7.5 kg. (16.5 lbs)						
Shipping Weight:	10 kg. (22 lbs)						
Accessories							
Included:	Anti-theft brackets						

1. Frequency response is measured in 8 Ohm mode.
 2. Continuous Power rating is IEC-shaped pink noise with a 6 dB crest factor for 100 hours continuously.
 3. 1 Watt input (2.0 Volts RMS @ 8 Ohms) at a distance of 1 meter.

SoundTube continually develops new product innovations and improvements. Updates to existing products without prior notice are an example of SoundTube's drive for constant improvement.

Key Features:

- ✓ BroadBeam™ wide dispersion pattern provides smooth off-axis coverage and reduces overall system costs.
- ✓ One 200mm (8") weather resistant polypropylene woofer and one 25mm (1") silk dome tweeter.
- ✓ Professional-grade components for lasting performance and durability.
- ✓ Patented ZeroReflection™ enclosure for enhanced bass response.
- ✓ Liquid-tight compression fittings for water tight protection.
- ✓ UV, weed whacker and weatherproof for long lasting performance.
- ✓ Multiple inlet locations for fast and easy daisy chaining.

Applications

The SoundTube XT800 is a premium 2-way outdoor loudspeaker solution for installations requiring high performance sound in a durable speaker design. The XT800 is designed for full range background/foreground music and paging. With a 360° dispersion pattern, the XT800 is an ideal choice for theme parks, shopping malls, restaurants, resorts, waterparks, gardens and other outdoor applications requiring high performance sound with additional bass.

Mounting hardware is available for overhead and in-ground applications.

XT800 speakers come with anti-theft brackets for increased outdoor security.

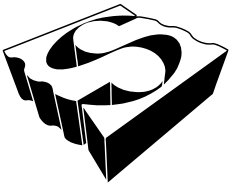
Reduce Overall System Costs

SoundTube's BroadBeam™ dispersion technology utilizes an advanced diffuser/tweeter system to provide maximum dispersion across the entire audio spectrum, resulting in excellent off-axis response well beyond 10 kHz.

Designed specifically for outdoor music & paging, the XT800 projects even coverage and smooth response over a larger area than typical outdoor speakers, with fewer units per install – saving time and money on speakers, installation and amp power.

Enclosure Technology

XT enclosures are engineered for maximum durability and performance. Unlike other outdoor speakers, SoundTubes incorporate patented ZeroReflection™ internal shaping to create the most effective environment for



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sound reproduction. The result is accurate sound and tight bass in an indestructible enclosure.

Technical Data

SoundTube Entertainment strives to provide complete and effective technical information and data to dealers, engineers and designers. All data are available from SoundTube Entertainment or at www.soundtube.com.

Technical data and downloads include:

Tech Sheets - technical information and architectural specs for system engineers.

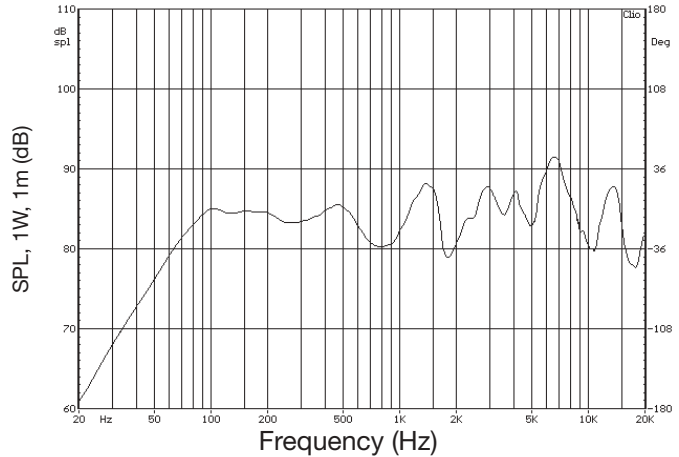
Data Acquisition

All performance data acquired at SoundTube's new Technical Measurement Center (TMC) are analyzed using standardized measurement techniques, including anechoic and Time Delay Spectrometry (TDS). Performance, development, and data acquisition tools include: TEF20 Suite, CLIO, LMS, LEAP, and proprietary modeling software. EASE data is acquired through an automated TEF20/Outline EASE interface system.

Data for Other SoundTube Products

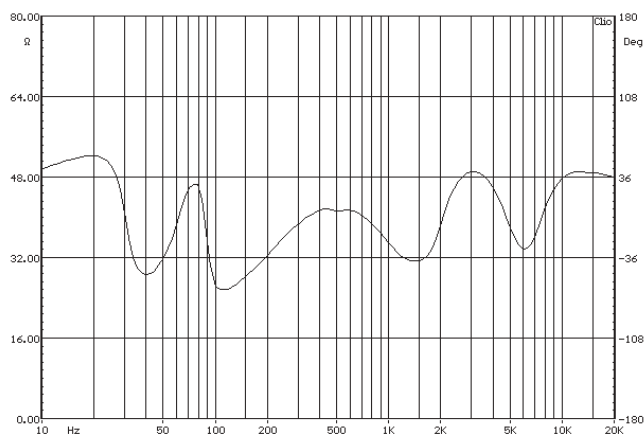
Also available: sales & installation information for all SoundTube speaker systems including open-ceiling, in-ceiling, surface mount, in-ground and sound-focusing speakers.

Frequency Response

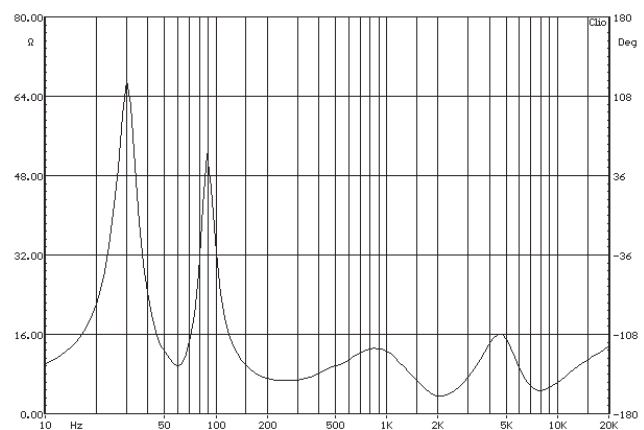


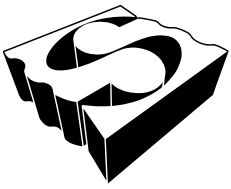
Frequency Response on-axis in full space (4π) at (8Ω) setting.

Phase Response



Impedance Response





Architectural Specifications

The loudspeaker shall be of in-ground or wall mount design consisting of one 200mm (8") low-frequency transducer and one 25mm (1") high-frequency transducer with a frequency dividing network installed in a vented enclosure. The low frequency voice coil diameter shall be 40mm (1.6").

Performance specifications of a typical production unit shall be as follows: Usable frequency response shall extend from 38 Hz – 20 kHz. The loudspeaker shall be available in separate 32W or 64W transformer and 8 Ohm models. Taps shall be nominally 4W @ 70.7V (8W @ 100V), 8W @ 70.7V (16W @ 100V), 16W @ 70.7V (32W @ 100V), 32W @ 70.7V (64W @ 100 V for use with the 64 Watt transformer only), and 64W @ 70.7V (not used in 100V systems). The frequency-dividing network shall have a crossover frequency of 2.4 kHz. Rated power capacity of the components and network shall be at least 100 Watts continuous RMS power.

The enclosure shall be constructed of a roto-molded polyethylene plastic. The grille shall be constructed of heat resistant ABS plastic material. Transducers and network circuitry are weather resistant to provide optimum sound quality for outdoor applications.

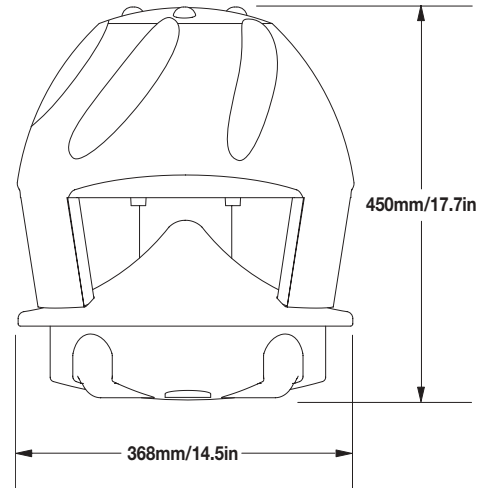
Installation shall be by either in-ground mount or wall/pole mount. The external wiring input connector shall be hardware leads. The overall cabinet dimensions shall be no more than 368mm (14.5") in diameter by 450mm (17.7") in height and shall weigh no more than 10 kg (22 lbs).

The low frequency transducer shall have a weatherproof polypropylene cone, rubber surround is formulated to resist weather elements and insects. The high frequency transducer shall be constructed of a silk dome configuration.

For theft deterrence, all XT800 speakers come with anti-theft brackets.

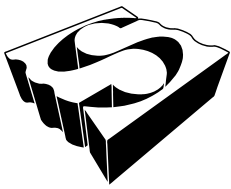
The systems shall be the SoundTube XT800-8 for low impedance and XT800-T32 or XT800-T64 for high impedance.

Mechanical Drawings

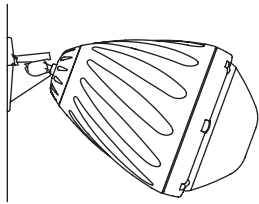


SoundTube Entertainment manufactures a complete line of speakers for open-ceiling, in-ceiling, surface mount, outdoor and sound-focusing applications.

Technical data, EASE™ plots, SoundTubeSPEC™ software & product downloads available at
www.soundtube.com

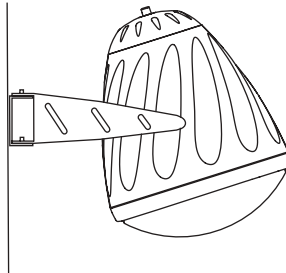


SoundTube's complete line of outdoor products includes:



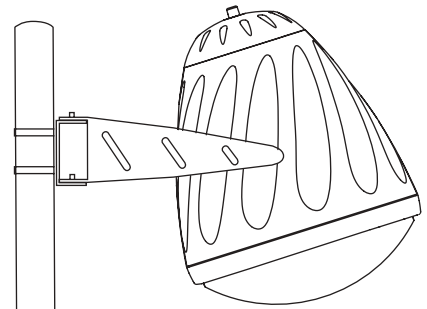
RS55i - with Surface Mount

5.25" 2-way outdoor
wall/pole mount
32 Watt or 8 Ohm systems



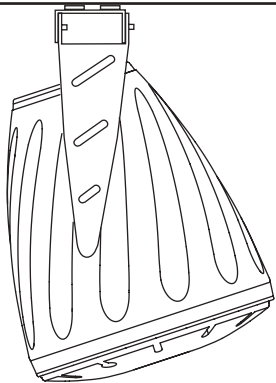
RS65i - SM (Coming Soon)

5.25" 2-way outdoor
wall/pole mount
32 Watt/8 Ohm system



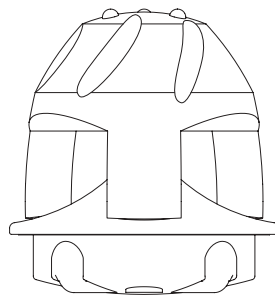
HP8i - SM

8" 2-way outdoor
wall/pole mount
64 Watt/8 Ohm system



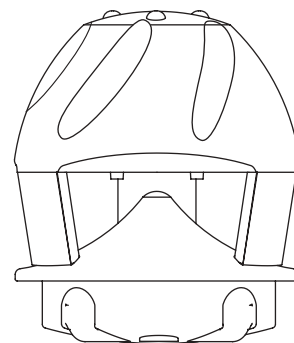
HP12i - SM

5.25" 2-way outdoor
wall/pole mount
64 Watt/8 Ohm system



XT610

5.25" 2-way outdoor
inground/pole mount
32 Watt or 4 Ohm systems



XT800

8" 2-way outdoor
inground/pole mount
64, 32 Watt or 8 Ohm systems

To download tech sheets for all SoundTube products visit: www.soundtube.com