

XT-SPYKE

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SOUNDTUBE
ENTERTAINMENT



Specifications: XT-SPYKE

Mounting hardware included

Nominal Impedance	8 ohm
Impedance (min)	8 ohm
Sensitivity dB @ 2.83V/1M	92.0 dB
Sensitivity dB @ 1W/1M (2)	92.0dB
Frequency Response (± 3 dB)	100 Hz - 20 kHz
Frequency Response (± 10 dB)	65 Hz - 22 kHz
Max. Program Power	300W
Max. Continuous Power RMS	150W
Max. Power SPL @ 1 M	114.0 dB
Directivity Factor (Q) (Averaged 100Hz - 10kHz, @ 2kHz)	9.0 (Average 100 Hz - 10 kHz) 12.1 (2 kHz)
Directivity Index (DI) dB (Averaged 100Hz - 10kHz, @ 2kHz)	12.8dB (Average 100 Hz - 10 kHz) 16.2dB (2 kHz)
Tap Selector	Optional 120W Transformer, 5 position rotary tap switch
70.7 Volt Transformer Taps	120 W / 113 dB
100 Volt Transformer Taps (dB)	120 W / 113 dB
25 Volt Transformer Taps (dB)	15 W / 104 dB
Transformer Options	120 W 25 / 70.7 / 100 Volt Applications
Transducer - Low Frequency Driver	3" Polypropylene
Transducer - High Frequency Driver	1" Titanium Dome
Network Type: Low Pass	12dB/OCT
Network Type: High Pass	18dB/OCT
Coverage Angle (-6 dB @ 10 kHz)	50 horizontal 20 vertical
Coverage Angle (-6 dB @ 2 kHz)	174 horizontal 25 vertical
Colors	Green, Black, or White
Inputs	Neutrix
Height (SM = Height)	949.5 mm / 37.4 in
Diameter (SM = Width)	172.7 mm / 6.8 in
SM Depth (Including Bracket)	139.7 mm / 5.5 in
Weight	7.8 kg / 17.2 lb
Shipping Weight	9.1 kg / 20 lb

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Accessories Optional

120 W Transformer, Tap Switch

Tech Sheet

Array

Regulatory - UL

UL1480A Planned

Regulatory - CE

approved

Regulatory - RoHS

approved

Key Features

- Passive, fixed length, column line array with 2-way design.
- Eight 3.0 inch (76 mm) woofers polypropylene woofers and eight 1.0 inch (25 mm) titanium dome tweeters.
- Optional 120 Watt transformer for 25/70.7/100 Volt applications
- Line Array - Point Source (LAPS) technology provides short near-field extent and robust far-field performance
- UV-, scratch-, chlorine- and weatherresistant with professional-grade components for long-lasting performance and durability.
- Painted stainless steel grille - custom paintable
- Available in green, black or white finish.
- Flexible mounting options include surface-mount and pole-mount.
- Weatherproof SpeakOn connectors allow for fast connections and easy daisy chaining.
- UL 1480 UEAY planned.
- Included accessories: Stainless steel mounting plate, mounting bolts and safety cable.

Description

The SoundTube XT-Spyke is not a typical line array column loudspeaker. It is an advanced LAPS (Line Array-Point Source) 2-way design that provides a very short near-field extent and robust far-field performance. Frequency tapering of low and high frequency pass bands allows the XT-Spyke to maintain a more consistent ratio of array height to radiated wavelength, ensuring a stable vertical beamwidth that out-performs many other single box line arrays. Featuring eight 3.0-inch woofers and eight 1-inch high frequency drivers for extremely smooth high frequency response, the XT-Spyke achieves superb coverage in an enclosure measuring only 37.37" x 6.80" x 5.50".

Applications

Designed for outdoor use in large public spaces, the XT-Spyke is ideal for PA and sound reinforcement applications. Its near-field to far-field transition occurs at only 3 meters (about 10') from the speaker, maintaining a constant directivity of 91 x 50 degrees throughout the coverage area. The XT-Spyke was designed for use in transportation platforms, airports, houses of worship, auditoriums and other public gathering spaces.

Patented SoundTube Technologies

SoundTube Entertainment and MSE Audio are constantly developing new technologies that enhance audio product performance.

SoundTube Entertainment innovations are protected by multiple U.S. and international patents, which explicitly cover SoundTube dome, enclosure and directivity technologies. MSE Audio actively defends its patents in order to protect SoundTube resellers and end users.

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Technical Data and Specification Tools

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: EASE™ data - 3-D polar plots. EASE™ Address - 2-D modeling for distributed systems Autodesk® Revit® software Tech Sheets - Technical information and architectural specs for system engineers SoundTubeSPEC™ - Proprietary speaker placement software

Data Acquisition and Verification

All data for SoundTube speakers are independently collected from and verified by NWAA Labs (www.nwaalabs.com) using their proprietary MACH testing system. All data are collected and analyzed according to ASTM, ISO and AES standards using EASRA, TEF and MLSSA. Full balloon data including both phase and magnitude are compiled into a variety of formats including EASE 4.x, GLL and CLF.

Architectural Specifications

The loudspeaker shall be a single-cabinet, 2-way column line array with eight 3 inch (76 mm) woofers and eight 1.0 inch (25 mm) high-frequency drivers. Performance specifications of a typical production unit shall be as follows: usable frequency response shall extend from 58 Hz - 22 kHz (-10 dB). Measured sensitivity (ref. 2.83 V / 1 m) shall be 92 dB. The speaker shall have a rated impedance of 8 ohms Rated power handling shall be 150 watts and maximum continuous output at 1 meter shall be 114 dB. The low frequency drivers shall include a polypropylene cone and surround.

They shall use a die cast aluminum basket and a ferrite motor structure. The high frequency drivers shall be titanium dome tweeters. Mounting points for wall mount, pole mount and spyke mount shall be provided. Input connectors shall include a Neutrik SpeakOn The enclosure shall be constructed of rotomolded polyethylene plastic with metal ¼" x 20 threaded inserts mounting points and a stainless steel grille. The enclosure and grille shall be available in green, black or white. A mounting bracket with mounting hardware and safety cable attachment point shall be included. The system shall be the SoundTube XT-Spyke line array.

SoundTube

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All SoundTube products come with a 5-year limited warranty.

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Included Accessories

**Mounting Plate &
Mounting Bolts**

SpeakOn Connector

Safety Cable

Optional Accessories

120 W Transformer

Tap Switch