

# LA880i with LA808i

Optional Addition  
to LA880i

**SOUNDTUBE**  
ENTERTAINMENT



## Specifications: LA880i with LA808i

Mounting hardware included

Nominal Impedance	4 ohm
Impedance (min)	4.3 ohm
Sensitivity dB @ 2.83V/1M	90.0dB
Sensitivity dB @ 1W/1M (2)	87.0dB
Frequency Response ( $\pm 3$ dB)	83 Hz - 22 kHz
Frequency Response ( $\pm 10$ dB)	75 Hz - 22 kHz
Max. Program Power	500W
Max. Continuous Power RMS	300W
Max. Power SPL @ 1 M	117.0dB
Directivity Factor (Q) (Averaged 100Hz - 10kHz, @ 2kHz)	9.1 (Average 100 Hz - 10 kHz) 7 (2 kHz)

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## Specifications:

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Directivity  
Index (DI)  
dB  
(Averaged 100Hz - 10kHz, @ 2kHz) 12.6dB (Average 100 Hz - 10 kHz) 11.0dB (2 kHz)

Tap Selector	AC-LA8-XFMR includes 5 Position rotary switch
70.7 Volt Transformer Taps	300w / 112.0dB
100 Volt Transformer Taps (dB)	300w / 112.0dB
25 Volt Transformer Taps (dB)	38w / 103.0dB
Network Type: Low Pass	12dB/oct
Network Type: High Pass	12dB/oct
Coverage Angle (-6 dB @ 10 kHz)	102 horizontal 98 vertical
Coverage Angle (-6 dB @ 2 kHz)	113 horizontal 62 vertical
Colors	Black or white
Inputs	4 Pin, 5.08 mm Euroblock or SpeakOn for individual or daisy chain connection
Height (SM = Height)	2076.2 mm / 81.7 in
Diameter (SM = Width)	200.9 mm / 7.9 in
SM Depth (Including Bracket)	304.5 mm / 12.0 in
Weight	33.9 kg / 74.7lb
Shipping Weight	40.9 kg / 90.2 lb
Accessories Optional	AC-LA8-BACK-BK,AC-LA8-LINK-BK/WH,AC-LA8-FLY-BK/WH,ST-MM-024,ST-PA-010,Ceiling Mount Bracket (ST-MM-020X),ST-MM-120HD,ST-SAS-1WA-20,ST-TCK-010,ST-TCK-010-S
Packaging	1 per box, 2 boxes
Regulatory - UL	1480 planned
Regulatory - CE	Approved

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**Specifications:**

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Regulatory -  
IP

not planned

**Mounting hardware included**

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### Key Features

- Passive, fixed length, low frequency directivity element for SoundTube Line Array.
- Designed for use only with LA880i Line Array.
- Eight 4.5 inch (115 mm) woofers.
- Extends low frequency directivity of line array systems by up to an octave lower than with the LA880i alone.
- Paintable enclosure is constructed of MDF and plywood with metal threaded mounting points.
- Powder coated, paintable steel grille.
- Available in black or white paint finish.
- Custom woodgrain cabinets or paint finishes available (contact us for details).
- Flexible mounting options include surface-mount, pole-mount, ceiling-mount or suspended (flown). (Allen Products mounting accessories sold separately.)
- Euroblock and SpeakOn connectors allow for fast connections and easy daisy chaining.
- UL 1480 UEAY planned.
- Included accessories: safety cable mounting plate and mounting bolts, Euroblock connector, safety cable.
- NOTE: Mounting brackets not included

### Description

Additional low frequency directivity can be achieved with the addition of the LA808i LFDE (Low Frequency Directivity Element). NOT a subwoofer, the LA808i adds eight 4.5-inch woofers to the system to extend the directivity control by up to an octave lower in frequency than with the LA880i alone. Its use is recommended in areas with a high reverberation time.

### Applications

In combination with the 3-way LA880i, the LA808i LFDE is ideal for PA and sound reinforcement applications. The system's near-field to far-field transition occurs at only 3 meters (about 10') from the speakers, maintaining a constant directivity of 40 x 120 degrees throughout the coverage area. The LA880i and LA808i were designed for use in transportation platforms, airports, houses of worship, auditoriums and other public gathering spaces. The LA880i and LA808i are not weatherized and are intended only for indoor applications.

### Patented SoundTube Technologies

SoundTube and MSE Audio Group constantly develop new technologies that enhance audio product performance. SoundTube innovations are protected by multiple U.S. and international patents, which explicitly cover SoundTube dispersion, enclosure and dome technologies. MSE Audio Group actively defends its patents in order to protect SoundTube resellers and end users.

### 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](http://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 NWAALabs ([www.nwaalabs.com](http://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 (LFDE unit) shall be used to enhance the low frequency directivity of a single-cabinet 3-way line array. It shall consist of a single cabinet with eight 4.5 inch (115 mm) woofers. The cabinet shall be the same size as the cabinet housing the 3-way line array. In tandem with the 3-way line array, the performance specifications of a typical production LFDE unit shall be as follows: usable frequency response shall extend from 75 Hz - 22 kHz (-10 dB). Measured sensitivity (ref. 2.83 V / 1 m) shall be 95 dB. The speaker shall have a rated impedance of 4 ohms. Rated power handling shall be 500 watts and maximum continuous output at 1 meter shall be 112 dB. The eight low frequency drivers shall include a treated paper cone and butyl rubber surround. They shall use a die cast aluminum basket and a ferrite motor structure. The midrange drivers shall include a treated paper dome with pressed foam surround. They shall use a die cast aluminum basket with a neodymium motor structure. The high frequency driver shall be a planar magnetics (ribbon) unit with a neodymium motor structure. Mounting points for wall mount, pole mount, ceiling mount or suspension via cables shall be provided. Mounting hardware shall be Allen Products or equivalent. Input connectors shall include a four-position terminal block and Neutrik SpeakOn. The four-position terminal block shall accept from 10 - 22 gauge wire. A jumper cable shall be provided to connect the LFDE unit to the 3-way line array. Builtin low frequency equalization shall automatically be applied to both the LFDE unit and 3-way line array when the two units are properly connected together using the jumper cable. The enclosure shall be constructed of MDF and plywood with metal ¼" x 20 threaded inserts mounting points and a steel grille. The enclosure and grille shall be available in black or white textured paint, and shall also be paintable by the installer. A bent back plate with plate mounting hardware and safety cable attachment point shall be included. Speaker mounting brackets and hardware shall be available for use with 3rd party manufacturer mounting systems. The system shall be the SoundTube LA808i Low Frequency Directivity Element in conjunction with the SoundTube LA880i line array.

## SoundTube

8005 W. 110th St. | Suite 208  
Overland Park, KS 66210  
Phone 9136635600  
Fax 8556635600  
Toll Free 8556635600  
<http://soundtube.mseaudio.com>  
All SoundTube products come  
with a 5-year limited warranty.

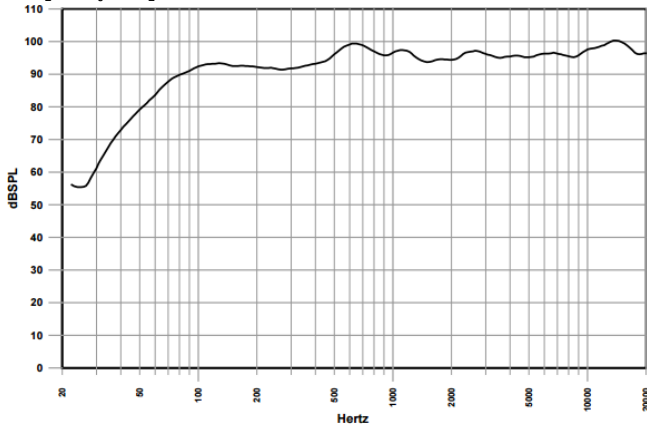
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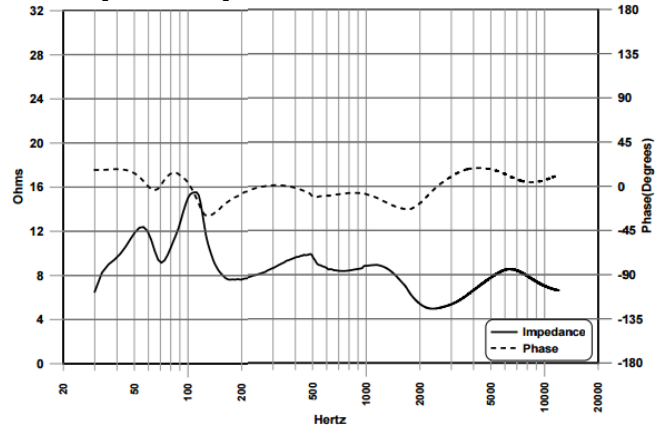


## Graphs and Plots

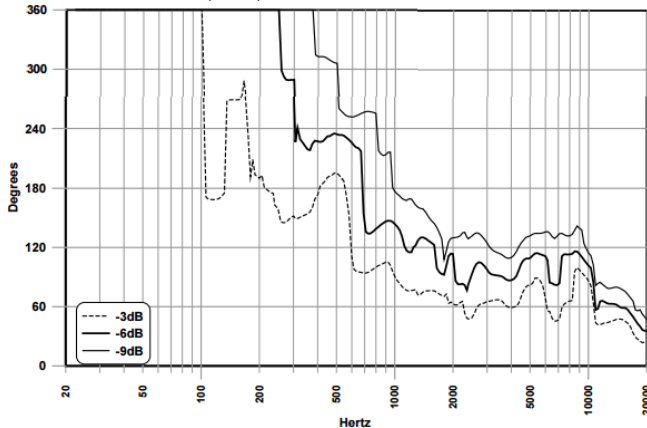
Frequency Response



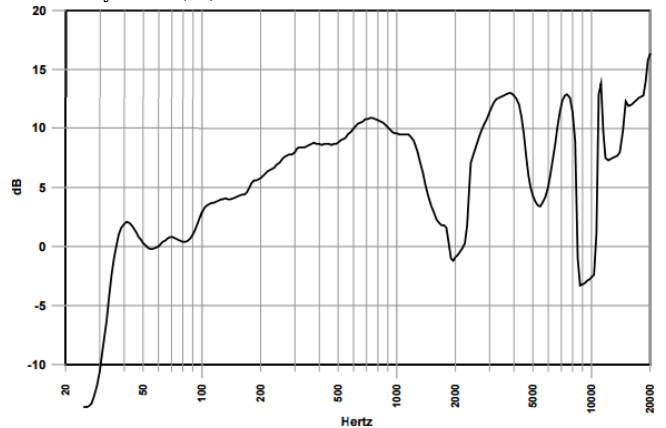
Phase/Impedance Response



Vertical Beamwidth (-6dB)



Directivity Index (DI)

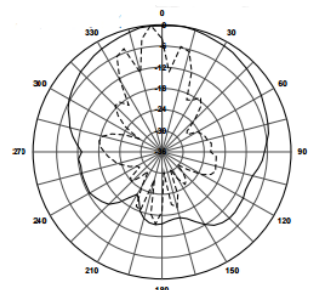
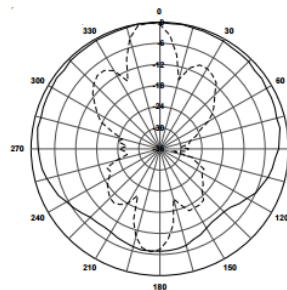
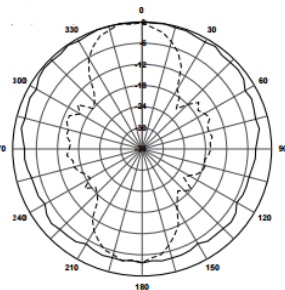
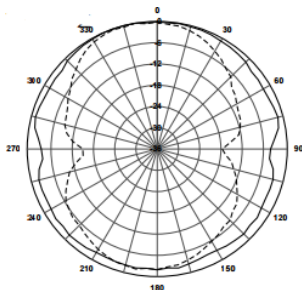


**125 Hz**

**250 Hz**

**500 Hz**

**500 Hz**



**2,000  
Hz**

**4,000  
Hz**

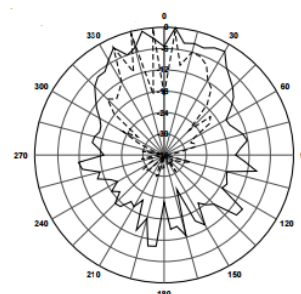
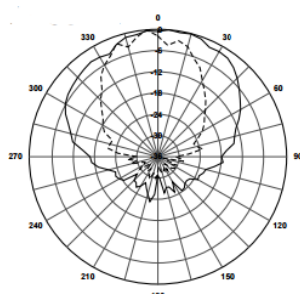
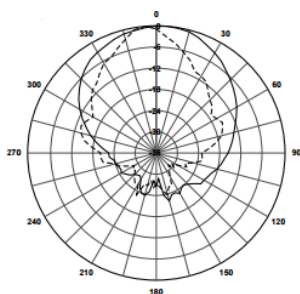
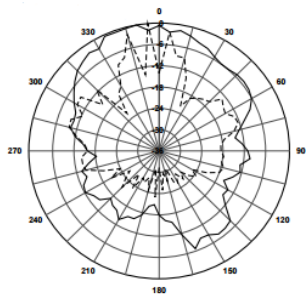
**8,000  
Hz**

**8,000  
Hz**

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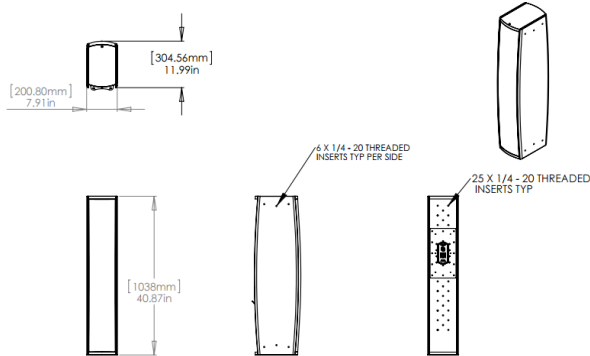


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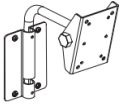
## Mechanical Drawings



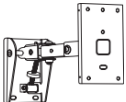
## Optional Accessories



**AC-LA8-BACK-BK**



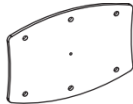
**ST-MM-024**



**ST-MM-120HD**



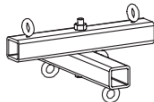
**ST-TCK-010-S**



**AC-LA8-LINK-BK/WH**



**ST-PA-010**



**ST-SAS-1WA-20**



**AC-LA8-FLY-BK/WH**

**Ceiling Mount Bracket  
(ST-MM-020X)**



**ST-TCK-010**