

LAS-BEAM-S Beam steering array, small

Loudspeaker Specials



The LAS-BEAM-S is equipped with four 3.5" drivers, each powered by a dedicated 100 W amplifier channel with enhanced processing by an on-board DSP module. This configuration produces a single, steerable audio beam with a typical throw of 15 meters, all housed in a compact design measuring just 511 mm (20.1").

The beam can be digitally adjusted in real time using configuration software. Combining outstanding audio quality with advanced active beam steering technology makes the LAS-BEAM-S ideal for achieving high speech intelligibility in acoustically challenging environments such as airports, houses of worship, and other reverberant spaces.

The LAS-BEAM series integrates seamlessly with PA/VA systems like PRAESENSA and supports dual 100 V audio inputs and/or dual line-level input channels. Innovative monitoring options are available via the 100 V line. Various redundancy wiring configurations, including A+B wiring and Class A loop wiring, can be implemented. In the event of an error, an alarm can be triggered in the PA/VA system through the 100 V line, with full support for PRAESENSA End of Line technology.

With a frequency range of 120 Hz to 18 kHz, the LAS-BEAM-S delivers superior audio performance that exceeds life safety requirements, making it suitable for commercial applications such as spherical messaging and background music.

- ▶ Excellent speech and music reproduction
- ▶ Typical coverage of 15 meters
- ▶ Compact design allows for quick and simple installation
- ▶ An innovative bracket simplifies mounting and enables flexible positioning
- ▶ Supports both 100 V line systems and line-level audio

Regulatory information

Safety	EN/IEC 62368-1
Immunity	EN 55035 EN 61000-6-2
Emissions	EN 55032 EN 61000-3-2 EN 61000-3-3
Environment	EN/IEC 63000
Water and dust protection	EN 60529 IP54
Corrosion resistance	IEC 60068-2-11 (duration: 96 hours)

Installation/configuration notes

Column stacking

Not stackable

N/A

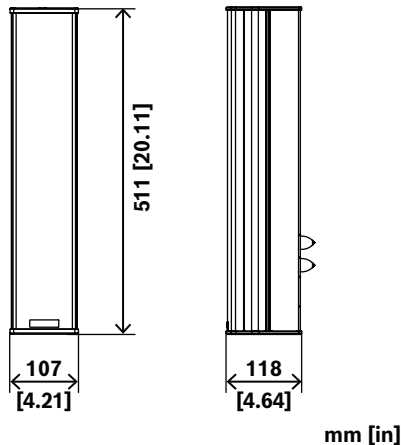


Fig. 1: Dimensions

Parts included

Quantity	Component
1	LAS-BEAM-S
1	IEC mains connector, 1.8 m (5.9 ft)
1	Closure cap for RJ45 interface
1	Connection set (Phoenix)
1	Quick installation guide
1	Safety and security information

Technical specifications

Acoustics

Frequency range (-10 dB) (Hz)	120 Hz – 18,000 Hz
Maximum SPL @25 m	92 dB
Transducers	4 x 3.5" HQ drivers
Dynamic range	>105 dB
Horizontal coverage (fixed)	130° (3 kHz), 70° (10 kHz)
Vertical coverage (adjustable)	10° to 40°, digitally steerable
Tilt	-70° to 70°, digitally steerable
Number of beams	1
Typical distance	15 m

Focus distance	1 m to 15 m
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Electrical

Audio input (2x)	0 dB (transformer balanced line level +4 dBuV rms)
Input 70 V / 100 V (2x)	Transformer balanced (floating input)
Nominal power @100 V	0.2 W
Nominal power @70 V	0.1 W
Nominal impedance	50 kΩ
Input level nominal	+40 dBV rms
Power amplifiers	4x 100 W max. (4 Ω) / digital PWM
Power consumption (VA)	5 VA normal, 135 VA max.
Mains voltage	81 V - 277 V, 50 Hz - 60 Hz, 80 W IEC socket
DSP	24 bit / 96 kHz sample rate
Functions	Delay (max. 340 ms) EQ Volume
Input audio mixing	Input A only Input B only Input A+B Fallback to Input B Fallback to Input A
Network interface	RJ45 interface RS485 data flow control
Max. number of units	256
Surveillance	General status via fault contact Status messages via RS485 Status message via 100 V line
Failure relay	No failure = closed Failure = open
Rating	Max. 24 V, 100 mA

Mechanical

Dimensions (H x W x D) (mm)	511 mm x 107 mm x 118 mm
Dimensions (H x W x D) (in)	20.11 in x 4.21 in x 4.64 in
Weight (kg)	3.50 kg
Weight (lb)	7.71 lb
Color (RAL)	RAL 9006 White aluminum
Material	Aluminum

Grille material	Powder coated steel
Mounting	LAS-BEAM-WMS

Environmental

Operating temperature (°C)	0 °C – 40 °C
Operating temperature (°F)	32 °F – 104 °F
Operating relative humidity, non-condensing (%)	<95%

Ordering information

LAS-BEAM-S Beam steering array, small

LAS-BEAM-S with four 3.5" drivers, each powered by a dedicated 100 W amplifier channel with on-board DSP processing. Single steerable beam with typical throw of 15 meters.

Order number **LAS-BEAM-S | F.01U.431.650**

Accessories

LAS-BEAM-WMS Wall mount set

LAS-BEAM-WMS wall-mount set, sold separately, includes two mounting brackets for securely attaching LAS-BEAM-S and stacked LAS-BEAM-L speakers. It allows horizontal rotation and adjustable distance from the wall.

Order number **LAS-BEAM-WMS | F.01U.431.655**

LAS-BEAM-CON Configuration Interface

Compact hardware tool for connecting a PC to the LAS-BEAM network. Enables real-time configuration and monitoring of up to 256 units.

Order number **LAS-BEAM-CON | F.01U.431.653**



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