

SLS-1A

Spectacular sound with fine beam control and flexible installation



Overview

Powered Line-Array Speaker delivers spectacular sound with fine beam control and flexible installation

Give every audience member a rich, powerful sound experience in corporate and educational environments. The SLS-1A is a compact, uniquely versatile line-array speaker system that offers an ideal audio reinforcement solution in conjunction with large display solutions including our BRAVIA professional displays, projectors, and Crystal LED video walls.

The SLS-1A offers an ideal sound solution in a wide range of listening environments. The compact line-array unit can be discreetly mounted to suit any size or shape of room. Multiple SLS-A1 units can be mounted horizontally or vertically, and ‘cascaded’ via a single Ethernet cable as part of a Dante® digital audio network to simplify wiring in large-scale AV installations.

The SLS-1A is an ideal sound reinforcement partner for large display installations including our BRAVIA 100” 4K professional display, projectors, and Sony’s Crystal LED system. In contrast with normal point-source speakers, the SLS-1A offers a large ‘sweet spot’ that can be accurately controlled for clear, consistent sound over a

wide listening area in any venue – from corporate showrooms, entrance lobbies and retail spaces to lecture theatres and auditoriums. The finely controlled beam is also particularly suited to providing even sound coverage in venues like auditoriums with a raked floor.

Features

Clear, low-distortion full-range sound

The SLS-1A features eight full-range driver units mounted in a line array configuration, supplemented by a powerful integrated multi-channel amplification system. Sound is delivered with remarkable richness, accuracy and presence in any listening environment.

Flat and square diaphragm

Provides ideal point source with reduced inter-modulation distortion.

Magnetic fluid speaker

Original Sony technology eliminates voice coil damper found in standard speakers, reducing distortion for clearer sound.

Integrated amplification

8x10W amplifier plus integrated 8-channel 96kHz DSP ensures pure, clear audio, with separate bass reflex driver for extended low frequencies.

Compact yet powerful

Rigid aluminium body measuring just 92 x 384 x 110*mm houses speakers and amplification, delivering high sound pressure levels from a compact unit.

* 100mm without speaker grille

Flexible mounting and expansion options

Mount horizontally or vertically. Easily link multiple units for larger scale sound installations.

Flexible beam setting

Adjust sound settings using hardware switches, third party EASE® Focus software or Sony's PC app that controls beam steering, spread and EQ.

Better sound in any room

Unlike standard speakers, the line array design of the SLS-1A minimises sound reflections from ceilings, walls and floors. Audiences can hear uniform, clearly directed sound with less attenuation over long distances, independent of room size or shape.

Specifications

System	
Frequency Range	80Hz-20kHz *Frequency characteristic measured at anechoic chamber
Horizontal Dispersion	200 degrees *1 - 4k average, -6 dB *At Vertical style (Vertical Dispersion at Horizontal style)
Vertical Opening Angles	Software Adjustable: 1 Module: Max 40 degrees 2 Modules: Max 50 degrees 3 Modules: Max 60 degrees 4 Modules: Max 70 degrees 5 Modules: Max 80 degrees 6 Modules: Max 90 degrees *At Vertical style (Vertical Opening Angles at Horizontal style)
	1 Module: 20 degrees

Vertical Beam Steering Angles	2 Modules: 20 degrees 3 Modules: 30 degrees 4 Modules: 30 degrees 5 Modules: 40 degrees 6 Modules: 40 degrees *At Vertical style (Vertical Opening Angles at Horizontal style)
Maximum SPL (1 m)	1 Module: 105 dB (peak 112 dB) 2 Modules: 111 dB (peak 118 dB) 3 Modules: 115 dB (peak 122 dB) 4 Modules: 117 dB (peak 124 dB) 5 Modules: 119 dB (peak 126 dB) 6 Modules: 121 dB (peak 128 dB) * Max SPL calculated based on free-field sensitivity, and without beam steering, spreading applied.
Peak SPL (30 m)	1 Module 97 dB 2 Modules: 103 dB 3 Modules: 107 dB 4 Modules: 109 dB 5 Modules: 111 dB 6 Modules: 113dB * Assumption signal loss at 30 m and 15 dB
	1 Module: 4m 2 Modules: 8m 3 Modules: 12m

Typical Usable Throw Distance	4 Modules: 16m 5 Modules: 20m 6 Modules: 25m * Typical Maximum Usable Throw Distance includes considerations for reverberation and speech intelligibility
Low-frequency Beam Control Limit	1 Module: 1.25 kHz 2 Modules: 630 Hz 3 Modules: 400 Hz 4 Modules: 315 Hz 5 Modules: 250 Hz 6 Modules: 200 Hz
Enclosure type	Bass reflex type
Driver	Flat and Square speaker unit, 35 mm x 35 mm (1 7/16 in x 1 7/16 in) Full range x 8
Magnetic shielding	No
Dust and water resistant	No
Amplifier Channels / Rated Power	Power Output (rated) 10 W x 8 channels (at 6 ohms, 1 kHz, 1 % THD)
Amplifier type	Class-D
Protection circuit	Speaker Processing: Clipping limit Amplifier: Terminal shutdown/Overheat protection/Over voltage protection/Under voltage lock

out/DC protection
 Power: Overload
 protection/Overheat
 protection

Electric performance

Power (AC) Voltage	Universal AC 100 V - 240 V, 50 Hz/60 Hz
Power (AC) Connector	IEC60320-C7
Power Consumption	87 W/Standby 7W (Dante IN or Dante OUT: 1port), 8 W(Dante IN and Dante OUT: 2ports)

Input/Output

Analog Audio Input	Euro type terminal block (Pitch 3.81 mm, 3-pin, Green)
Analog Audio Maximum Input Level (4 stages)	Balance connection: +8.2 dBu(2Vrms)/+12 dBu/+18 dBu/+24 dBu Unbalance connection: +8.2 dBu(2Vrms)/+12 dBu/+18 dBu
Input Sensitivity (4 stages)	Balance connection: +8.2 dBu(2 Vrms)/+12 dBu/+18 dBu/+24 dBu Unbalance connection: +8.2 dBu(2 Vrms)/+12 dBu/+18 dBu

Input Impedance	Balance connection: 94 k Ω / Unbalance connection: 47 k Ω
Digital Audio Inputs	1-channel of Dante digital audio network (RJ-45) *8-channel of Dante digital audio network (RJ-45) is possible
Digital Audio Outputs	1-channel of Dante digital audio network (RJ-45) *8-channel of Dante digital audio network (RJ-45) is possible
Power(DC) Input/Output	Euro type terminal block (Pitch 5.08 mm, 4-pin, Black/Green)
DIP Switch	Select preset beam setting and Dante [®] input channel (1ch/8ch)

(Integrated DSP)

A/D and D/A Converters	24-bit, 96 kHz
FIR Filter Support	1024 tap @ 96 kHz
Audio Latency	13 mS

Physical specification

Cabinet: Extruded aluminum (powder)

Enclosure	coated) Side/Back panel: Plastic
Grille	Punching metal steel plate (Painted)
Indicators	Status, Signal, LAN
Operating Temperature Range (Ambient)	0 °C - 40 °C
Cooling System	Cooling is passive only
Environmental	Indoor only
Install	Integrated speaker brackets; allows horizontal yaw to 0-degree or 10- degree direction
Dimensions (w×h×d) (approx.)	384 mm x 92 mm x 100 mm (15 1/8 in x 3 5/8 in x 4 in) (without speaker grill) 384 mm x 92 mm x 110 mm (15 1/8 in x 3 5/8 in x 4 3/8 in) (with speaker grill)
Mass (approx.)	4 kg (8 lb 14 oz) (with speaker grill)
Power(DC) Input/Output	Euro type terminal block (Pitch 5.08 mm, 4-pin, Black/Green)
	Speaker grille (attached to the speaker) (1), Power cord (1), Power cascade

Included Accessories

cable (Euro type terminal block) (1), Ethernet cable for audio signal cascade (RJ-45) (1), 3-pin Euro type terminal block header (1), Speaker bracket(no slant) (2), Speaker bracket (10-degree slant) (2), Speaker joint bracket (no slant) (1), Speaker joint bracket (10-degree slant) (1), Wall mounting bracket (1), Metal joint fitting for wall mounting brackets (1), Detachment stopper (2), Metal joint fitting for attaching a safety wire (2), Cable clamp (2), Spacer pad A (2), Spacer pad B (1), 4×10 screw with washer (9), Shoulder screw (2), Operating Instructions (this manual) (1), Reference Guide (1), Warranty card (1)

Gallery





