

SSOUNDS LS208

Compact dual-8" line-array element, 141 dB peak, 55 Hz reach and 100° coverage from a 26 kg box.

Part of the LS System. Compact two-way element for shorter arrays, downfill and delay positions. LS stands for Line Source. Full system documentation at s-soundspro.com/systems/ls.



SSOUNDS LS208 · PRODUCT VIEWS

AT A GLANCE

MODEL / SKU	CATEGORY
SS-LS208	Line Array Speakers
BRAND	DRIVE
SSOUNDS	Passive
CONDITION	
New	

OVERVIEW

The LS208 packs SSOUNDS line-array performance into a compact dual-8" element for theatres, houses of worship, corporate AV and club installs. 100° horizontal coverage and 0°–10° splay give consistent audience coverage even from short hangs, while integrated rigging makes deployment fast. It scales seamlessly with LS-series subwoofers and shares the family's voicing for effortless system design.

- 2 × 8" LF and a 3" compression driver on an isophasic waveguide
- 141 dB peak SPL, 55 Hz – 20 kHz (–10 dB), from a 26 kg cabinet
- 100° × 8° nominal dispersion
- Bi-amplified over NL4, crossed at 900 Hz
- High-grade titanium captive rigging with 0°–10° splay
- Up to 16 elements per hang

TECHNOLOGIES

 CARDIOSTEER	Steerable cardioid arrays that direct low-frequency energy forward.
 DYNACONTROL	Holds the tuned tonal balance as voice coils heat under sustained output.
 FASTSET	Steel and aluminium rigging with captive titanium pins and detented splay for repeatable array geometry.
 ISOPHASE	Isophasic HF waveguide summing multiple drivers into a single coherent wavefront.
 PHASETRUE	FIR phase-linear crossovers for a coherent impulse response through the crossover region.
 SNET	Networked control and monitoring for every amplifier and processor in the system.
 VOXCLEAR	Voicing developed for speech intelligibility in acoustically difficult rooms.

SPECIFICATIONS

GENERAL

Type	2-way compact line-array element · bi-amplified
Certifications	CE · TÜV (rigging system) · EAC · WEEE

ACOUSTIC PERFORMANCE

Frequency response ²	55 Hz - 20 kHz (-10 dB)
Coverage ⁴	100° × 8°
Sensitivity ³	107 dB SPL nominal (1 W @ 1 m)
Maximum SPL ¹	141 dB peak @ 1 m

TRANSDUCERS & COMPONENTS

Low frequency	2 × 8" cone drivers with phase plug, dipolar arrangement · 8 Ω
High frequency	1 × 1.4" exit compression driver, 3" coil · 16 Ω

ELECTRICAL

Amplification	Bi-amplified by SSOUNDS D14X system DSP amplifier
Recommended amplifier power ⁵	1,040 W
Nominal impedance ⁶	LF 8 Ω · HF 16 Ω
Crossover	900 Hz

CONNECTORS & I/O

Connectors	2 × NL4 speakON (in / link)
Pin map	1+/1- LF · 2+/2- HF

RIGGING & MOUNTING

System	High-grade titanium captive 3-point rigging
Splay angles	0° - 10° adjustable
Max per array	Up to 16 elements per hang

PHYSICAL & CONSTRUCTION

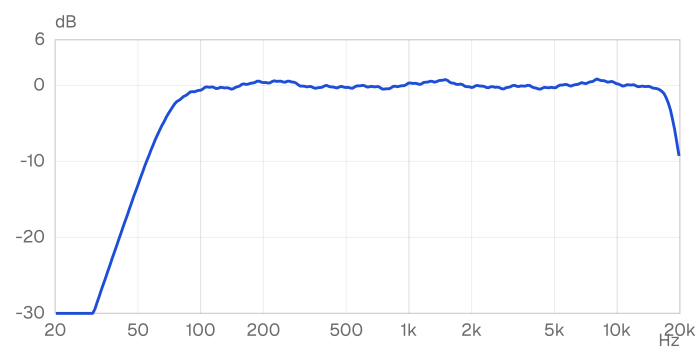
Dimensions (H × W × D) ⁸	250 × 730 × 470 mm
Net weight ⁷	26 kg / 57 lb
Enclosure	15 mm Baltic birch · Polyurea finish
Grille	Powder-coated perforated steel with acoustic cloth backing
Handles	2 side · 2 rear recessed
Colour	Black (custom RAL on request)

NOTES

1. Maximum SPL is the peak level at 1 m, driven with pink noise at crest factor 4 to the clipping point of the recommended amplifier, with the SSOUNDS system preset applied. Full-range enclosures are specified under free-field conditions; figures marked half-space are specified over a reflecting plane, the condition subwoofers are deployed in, which adds approximately 6 dB.
2. Frequency response is specified on axis at 1 m in a free field. The tolerance the figure is referenced to is stated alongside it; where no tolerance is given, the figure is the -6 dB bandwidth.
3. Sensitivity is specified at 1 W into the nominal impedance at 1 m on axis, averaged across the pass band of the enclosure.
4. Coverage angles are nominal -6 dB values averaged across the pass band. Per-octave directivity data is available from SSOUNDS system design support for prediction and modelling.
5. Recommended amplifier power is the amplifier output SSOUNDS specifies for this enclosure, driven with the SSOUNDS system preset. It guides amplifier selection and is not an AES power-handling rating for the transducers.
6. Nominal impedance is the manufacturer's rating for amplifier load calculation; minimum impedance across the operating band may be lower.
7. Net weight excludes packaging, flight case, accessories and optional rigging hardware.
8. Dimensions are stated in millimetres and exclude protruding rigging hardware, handles and connector panels unless noted.
9. All figures are typical values for production units specified under the conditions above. Individual units may vary within published tolerances.

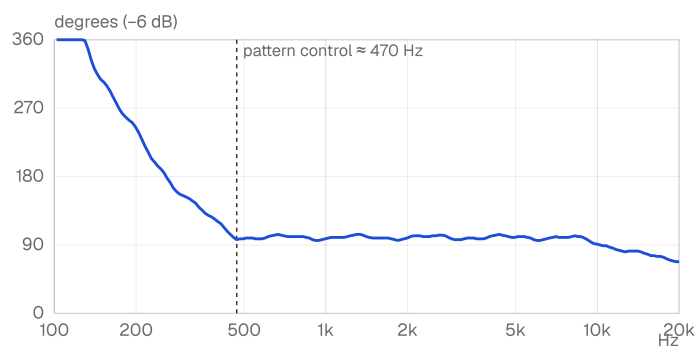
RESPONSE

FREQUENCY RESPONSE



Frequency response: 55 Hz to 20 kHz (-10 dB) · 1/24-octave smoothed

HORIZONTAL BEAMWIDTH

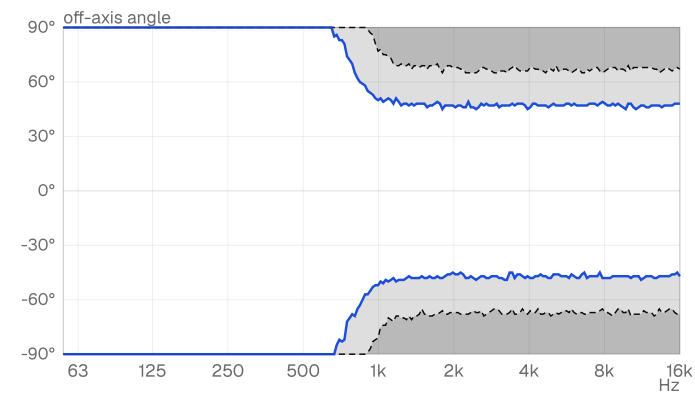


-6 dB horizontal beamwidth: 100° nominal

Plot conditions. Curves are generated by the SSOUNDS engineering toolchain from this product's specification. Frequency response is shown 1/24-octave smoothed, normalised to the midband reference, with the passband corners at the stated tolerance; response varies within ± 1 dB across the passband with a subtle shelf in the top octave. Magnitude slopes are 24 dB/octave beyond the passband corners. The beamwidth curve shows the -6 dB included angle: nominal coverage holds down to the pattern-control limit set by the cabinet width ($f \approx c/w$) and widens below it.

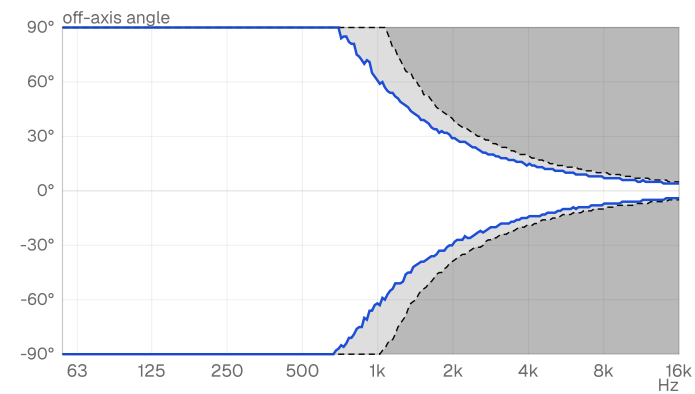
DIRECTIVITY

ISOBAR DIAGRAM, HORIZONTAL



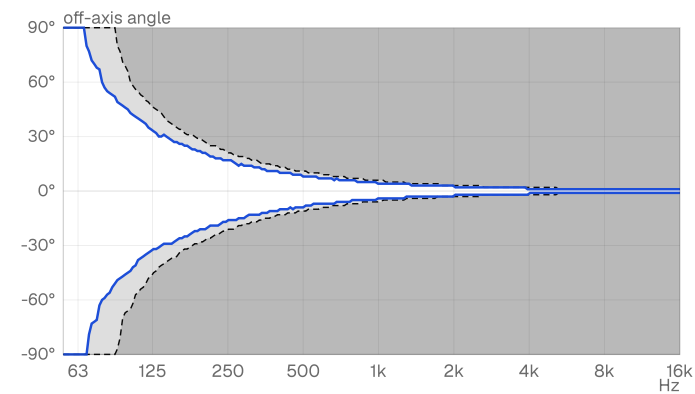
Lines of equal sound pressure. Blue: -6 dB. Dashed: -12 dB. White region holds within 6 dB of on-axis.

ISOBAR DIAGRAM, VERTICAL



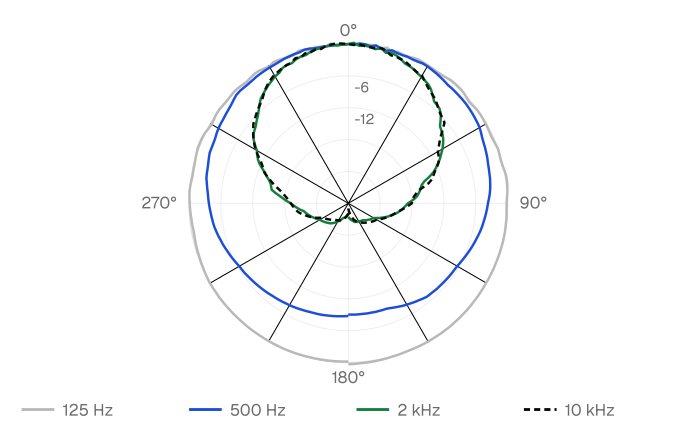
Lines of equal sound pressure. Blue: -6 dB. Dashed: -12 dB. White region holds within 6 dB of on-axis.

ISOBAR DIAGRAM, VERTICAL, 12-ELEMENT ARRAY



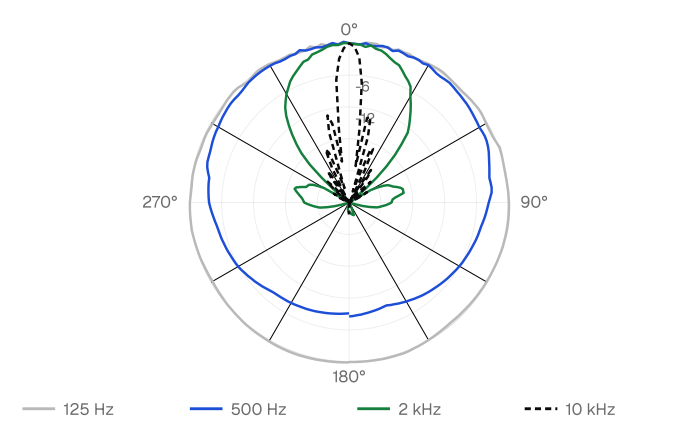
Lines of equal sound pressure. Blue: -6 dB. Dashed: -12 dB. White region holds within 6 dB of on-axis.

POLAR RESPONSE, HORIZONTAL



Normalised to on-axis. Rings at 6 dB intervals to a -30 dB centre. 1/3-octave band power.

POLAR RESPONSE, VERTICAL



Normalised to on-axis. Rings at 6 dB intervals to a -30 dB centre. 1/3-octave band power.

Charts span 55 Hz to 16 kHz, this cabinet's own operating band. The single-cabinet charts rate one element. Vertical pattern below the midrange is set by the length of the array, not by one box: the 12-element chart is a straight column of 3.00m at 0° splay, and it is the figure to design from. Horizontal coverage is a property of the cabinet and does not change with array length.

VERTICAL COVERAGE BY ARRAY SIZE, -6 DB

Elements	Length	63	125	250	500	1k	2k	4k	8k
4	1.0 m	—	—	113°	49°	24°	12°	6.0°	3.0°
8	2.0 m	—	112°	49°	24°	12°	5.9°	3.0°	1.5°
12	3.0 m	—	67°	32°	16°	7.9°	4.0°	2.0°	1.0°
16	4.0 m	110°	49°	24°	12°	5.9°	3.0°	1.5°	0.7°
20	5.0 m	82°	39°	19°	9.5°	4.7°	2.4°	1.2°	0.6°
24	6.0 m	66°	32°	16°	7.9°	3.9°	2.0°	1.0°	0.5°

Frequencies in Hz. A dash means the column is not yet long enough to hold a pattern at that frequency and radiates through the full vertical plane. Straight hang, 0° splay: splaying the array trades pattern width for reach and widens these figures.

Chart conditions. Directivity charts are computed by the SSOUNDS system prediction engine as a phase-coherent wave solution of this product's driver complement: each way represented by its physical radiator (rigid-piston cones with real diameters and spacings; waveguides as continuous mouth apertures, holding the rated coverage on a flare-controlled axis above the mouth's pattern-control limit and radiating the mouth's own diffraction limit on a wavefront-shaped axis; a horn-loaded mid shares the high-frequency mouth), summed as complex pressure through crossovers at the published points in the topology the cabinet is driven with (linear-phase FIR where the ways run on separate channels of a system DSP amplifier, Linkwitz-Riley where a passive network splits them), with way alignment referenced on axis and 1/24-octave band-power resolution. Single-cabinet vertical figures are free-field beamwidths of one element; the published per-element vertical coverage of a line array is its rigging splay, the sector one element covers in a curved hang. Cabinet edge diffraction, horn loading detail, driver breakup and production tolerances are outside the computation. Directivity files for prediction software (GLL/CLF) are issued from measured data only.

DOWNLOADS & DATA FILES

SSOUNDS LS208: User Manual MANUAL

Directivity table, horizontal (CSV) / vertical CSV

Loudspeaker data files for prediction software (GLL / CLF for EASE), 2D and 3D drawings and certification documents are issued on request. Contact support@s-soundspro.com and we will send the current release for this model.

SYSTEM OPERATION

Recommended: SSOUNDS D14X, one channel pair per LS208 in bi-amplified mode with the LS208 preset loaded.

ARCHITECTURAL & ENGINEERING SPECIFICATION

The line array loudspeaker shall be of the SSOUNDS LS208 type, configured as a 2-way compact line-array element, bi-amplified. The line array loudspeaker shall incorporate a low-frequency section of 2 × 8" cone drivers with phase plug, dipolar arrangement, 8 Ω, a high-frequency section of 1 × 1.4" exit compression driver, 3" coil, 16 Ω. The line array loudspeaker shall be capable of meeting the following performance criteria: a frequency response of 55 Hz – 20 kHz (–10 dB); a maximum sound pressure level of 141 dB peak @ 1 m; a sensitivity of 107 dB SPL nominal (1 W @ 1 m); nominal coverage of 100° × 8°. Electrically the line array loudspeaker shall provide a nominal impedance of LF 8 Ω, HF 16 Ω, a crossover at 900 Hz. The unit shall be passive. Connection shall be by 2 × NL4 speakON (in / link). The line array loudspeaker shall be constructed of 15 mm Baltic birch, Polyurea finish, measuring 250 × 730 × 470 mm, and shall weigh 26 kg / 57 lb. The line array loudspeaker shall be covered by the manufacturer's two (2) year limited warranty and shall be supplied by SSOUNDS or an SSOUNDS-authorized distributor. No alternate shall be accepted without prior written approval of the consultant or specifying engineer.

SAFETY & COMPLIANCE

Read this section before specifying, installing or operating this product. It summarises the safety requirements set out in full in the product documentation supplied with the unit; where the two differ, the product documentation takes precedence.

SUSPENSION & RIGGING

Overhead suspension is potentially hazardous and must be carried out only by trained and competent personnel using SSOUNDS-approved hardware, within the working load limits and array configurations published in the relevant SSOUNDS rigging documentation. Never exceed the stated number of enclosures per array or the stated splay limits. Inspect all rigging components, pins and retaining clips before every deployment and withdraw from service any component that is deformed, corroded or of unknown history. Secondary safety attachment is required where local regulation calls for it. SSOUNDS accepts no liability for systems suspended using non-approved hardware or outside published limits.

SOUND PRESSURE LEVEL & HEARING

This equipment is capable of producing sound pressure levels that cause permanent hearing damage. Do not operate at high level in close proximity, and ensure that operators, performers and audience exposure complies with applicable occupational noise-exposure regulation. Provide hearing protection where exposure limits may be exceeded.

ENVIRONMENT & MECHANICAL

Unless a published IP rating states otherwise, this product is intended for indoor use or for outdoor use under cover, and must be protected from rain, standing water and prolonged direct sun. Ensure ventilation openings are unobstructed. Stack, pole-mount and transport only as described in the product documentation, and secure the product against toppling wherever the public has access.

DISPOSAL

At end of life, dispose of the product and any packaging in accordance with local regulation for electrical and electronic equipment. Do not dispose of electronic components in general waste.

LIMITED WARRANTY: TWO (2) YEARS

SSOUNDS products are warranted against defects in materials and workmanship for a period of two (2) years from the original date of purchase by the end user. Within that period SSOUNDS will, at its option, repair or replace the defective item with no charge for parts or labour. The item must be adequately packaged and dispatched, carriage pre-paid, to SSOUNDS or an SSOUNDS-authorised service centre, accompanied by proof of purchase and a returns reference issued in advance by SSOUNDS. Unauthorised repair, modification or removal of serial-number labelling voids this warranty.

THIS WARRANTY DOES NOT COVER

- Cosmetic wear, finish, grille cloth, paintwork and consumable parts.
- Damage caused by misuse, abuse, accident, neglect, or operation outside the published ratings on this sheet.
- Damage caused by transport or handling after delivery, or by inadequate packaging on return.
- Damage caused by mains or generator supply faults (over-voltage, under-voltage, phase imbalance, surge or incorrect earthing) or by lightning.
- Water, dust or corrosion ingress on products not carrying a published IP rating for the conditions of use.
- Damage resulting from amplification or processing outside the recommended configuration on this sheet, or from third-party presets.
- Products not purchased from SSOUNDS or an SSOUNDS-authorised distributor.

This warranty is in addition to, and does not affect, any statutory rights the purchaser may have under applicable consumer law. It is the sole warranty offered; no other warranty, express or implied, is given.

Warranty claims and returns references: support@s-soundspro.com · +44 20 3769 6537

LEGAL NOTICE

All information on this data sheet is subject to change without notice. SSOUNDS reserves the right to alter specification, design and construction in the course of continuous product development.

Specifications, drawings and images are provided for guidance in system design and tender documentation. Where a figure is critical to a design, confirm it in writing with SSOUNDS before committing to a specification.

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