

SSOUNDS LC100

The largest LC column: 24 × 1" over 6 × 6.5", 65 Hz to 16 kHz, 134 dB peak, pairs with the LC100B.

Part of the LC System. The largest LC column: twenty-four 1" drivers over six 6.5", 65 Hz to 16 kHz, 134 dB peak. Pairs with the LC100B. LC stands for Line Column. Full system documentation at s-soundspro.com/systems/lc.



SSOUNDS LC100

AT A GLANCE

MODEL / SKU	CATEGORY
SS-LC100	Columns
BRAND	DRIVE
SSOUNDS	Passive
POWER	CONDITION
900 W	New
APPLICATIONS	
COLUMNINSTALLSPEECHWORSHIP	

OVERVIEW

Large cathedrals, mosque prayer halls and airport terminals are long and high, and the column that covers them has to reach a long way without filling the volume above the listeners. The LC100 is the largest column in the LC series: twenty-four 1" high-frequency drivers in a continuous line with six 6.5" cone drivers on 2" voice coils, holding 23° vertically across a 132° horizontal. It reaches 65 Hz, rates 900 W AES and 134 dB peak, and pairs with the LC100B bass column. We specify it for large houses of worship, prayer halls, airport terminals and auditoria.

- Two-way: LF 6 × 6.5" with 2" voice coils, HF 24 × 1" in a continuous line
- 132° (H) × 23° (V) coverage
- 65 Hz to 16 kHz (–10 dB)
- 128 dB continuous, 134 dB peak at 1 m from 102 dB sensitivity
- 900 W AES, 3,600 W peak, 8 Ω
- Pairs with the LC100B bass column, 25 kg

SPECIFICATIONS

GENERAL

Type	Passive column array, two-way
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ACOUSTIC PERFORMANCE

Frequency response ²	65 Hz - 16 kHz (-10 dB)
Coverage ⁴	132° (H) × 23° (V)
Maximum SPL ¹	128 dB continuous · 134 dB peak @ 1 m
Sensitivity ³	102 dB (1 W @ 1 m)

TRANSDUCERS & COMPONENTS

Drivers	LF 6 × 6.5" cone drivers, 2" voice coil · HF 24 × 1" drivers, 1" voice coil
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ELECTRICAL

Power handling (AES / peak) ⁵	900 W / 3,600 W
Nominal impedance ⁶	8 Ω

CONNECTORS & I/O

Connectors	2 × NL4 speakON
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RIGGING & MOUNTING

Mounting	Wall bracket · ceiling suspension
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PHYSICAL & CONSTRUCTION

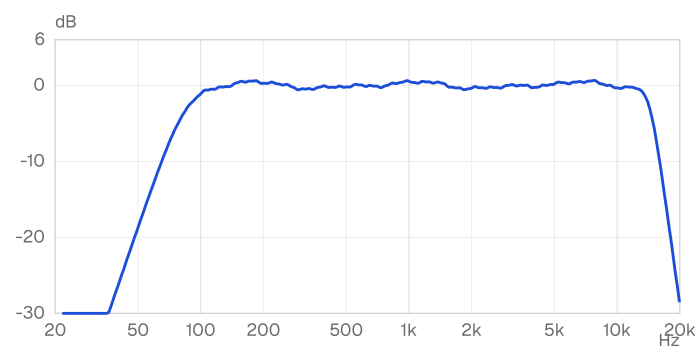
Dimensions (H × W × D) ⁸	1022 × 210 × 300 mm
Net weight ⁷	25 kg / 55 lb
Enclosure	Wood

NOTES

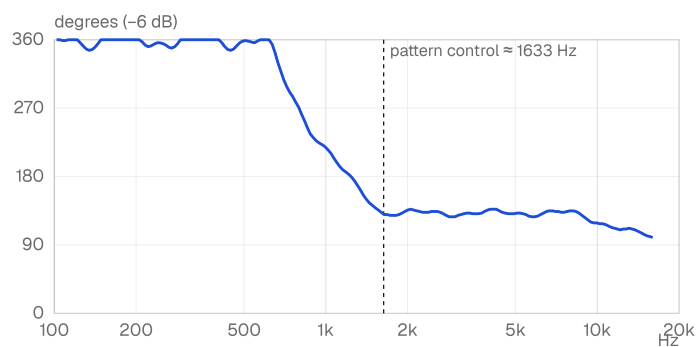
1. Maximum SPL is the peak level at 1 m, driven with pink noise at crest factor 4 to the clipping point of the recommended amplifier, with the SSOUNDS system preset applied. Full-range enclosures are specified under free-field conditions; figures marked half-space are specified over a reflecting plane, 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. Power handling is rated to AES2 using pink noise with a 6 dB crest factor over a two-hour period. Programme power is twice the AES rating; peak power is four times.
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



HORIZONTAL BEAMWIDTH



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 (isobars / balloon). Measured directivity data (isobars, balloon and GLL/CLF for EASE) is in preparation. We publish measured polars only. Contact us for the current measurement status of this model.

DOWNLOADS & DATA FILES

SSOUNDS LC100: User Manual	MANUAL
SSOUNDS LC100: Technical Data Sheet	DATASHEET

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.

ARCHITECTURAL & ENGINEERING SPECIFICATION

The unit shall be of the SSOUNDS LC100 type, configured as a passive column array, two-way. The unit shall be capable of meeting the following performance criteria: a frequency response of 65 Hz – 16 kHz (-10 dB); a maximum sound pressure level of 128 dB continuous, 134 dB peak @ 1 m; a sensitivity of 102 dB (1 W @ 1 m); nominal coverage of 132° (H) × 23° (V). Electrically the unit shall provide a power handling of 900 W / 3,600 W, a nominal impedance of 8 Ω. Connection shall be by 2 × NL4 speakON. The unit shall be constructed of Wood, measuring 1022 × 210 × 300 mm, and shall weigh 25 kg / 55 lb. Rigging provision shall be Wall bracket, ceiling suspension. The unit shall be covered by the manufacturer's two (2) year limited warranty and shall be supplied by SSOUNDS or an SSOUNDS- authorised 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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