

SSOUNDS LC8.3D

8 × 3" column with its own amplifier and DSP, Dante audio and PoE power on one network cable, 100° × 18°.

Part of the LC System. Eight 3" drivers, 100° × 18°: lecture rooms, offices and atria on the building network. LC stands for Line Column.
Full system documentation at s-soundspro.com/systems/lc.



SSOUNDS LC8.3D

AT A GLANCE

MODEL / SKU

SS-LC83D

CATEGORY

Columns

BRAND

SSOUNDS

DRIVE

Active

POWER

30 W

CONDITION

New

APPLICATIONS

COLUMN

INSTALL

SPEECH

DANTE

NETWORK

OVERVIEW

The LC8.3D is the eight-driver LC column with the amplifier and processing built in and the network doing the rest. Dante audio, Power over Ethernet and control arrive on a single Cat cable from a PoE switch, so the column needs no amplifier rack, no loudspeaker cable and no mains outlet at the wall. The line of eight 3" full-range drivers holds the vertical pattern to 18° while the horizontal stays 100° wide, and the built-in DSP carries EQ, gain, a limiter and mute, set and monitored with software that also reports each column's status and temperature. We specify it for lecture rooms, offices, shop floors and long atria where the building already runs a network.

- 8 × 3" full-range drivers in one vertical line
- 100° (H) × 18° (V) coverage
- 110 Hz to 18 kHz (–10 dB)
- 112 dB maximum SPL at 1 m
- Dante audio, PoE power and control on one RJ45
- Built-in Class D amplifier and DSP, set up with software
- Wall mount, 8.8 kg

SPECIFICATIONS

GENERAL

Type	Self-powered column array, Dante network audio over PoE
Cooling	Natural convection, no fan

ACOUSTIC PERFORMANCE

Frequency response ²	110 Hz - 18 kHz (-10 dB)
Coverage ³	100° (H) × 18° (V)
Maximum SPL ¹	112 dB @ 1 m
Total harmonic distortion	≤ 1%

TRANSDUCERS & COMPONENTS

Drivers	8 × 3" full-range, 0.75" voice coil
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ELECTRICAL

Built-in amplifier	Class D, 30 W RMS · 60 W music power · 90 W peak
Power	Power over Ethernet: PoE, PoE+ or PoE++ (IEEE 802.3af / 802.3at / 802.3bt)
Protection	Load short-circuit · overcurrent · overtemperature · overload

CONNECTORS & I/O

Network	1 × RJ45: Dante audio, PoE power and control on one Cat cable
Control	Remote control and monitoring with software; reports device status and temperature
Processing	Built-in DSP: 5-band EQ, gain, limiter and mute

RIGGING & MOUNTING

Mounting	Wall mount
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PHYSICAL & CONSTRUCTION

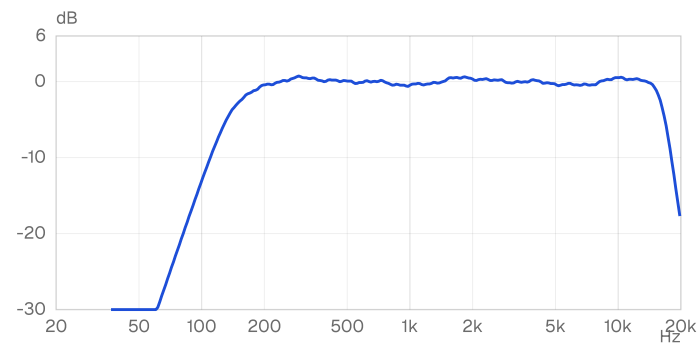
Dimensions (H × W × D) ⁵	720 × 124 × 155 mm
Net weight ⁴	8.8 kg / 19 lb
Enclosure	Wood

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. 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.
- 4. Net weight excludes packaging, flight case, accessories and optional rigging hardware.
- 5. Dimensions are stated in millimetres and exclude protruding rigging hardware, handles and connector panels unless noted.
- 6. All figures are typical values for production units specified under the conditions above. Individual units may vary within published tolerances.

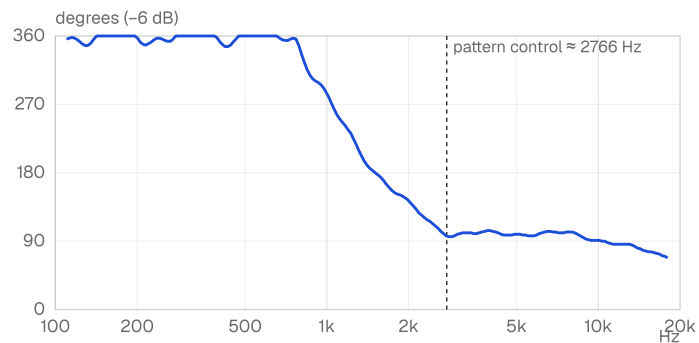
RESPONSE

FREQUENCY RESPONSE



Frequency response: 110 Hz to 18 kHz (-10 dB) · 1/24-octave smoothed

HORIZONTAL BEAMWIDTH

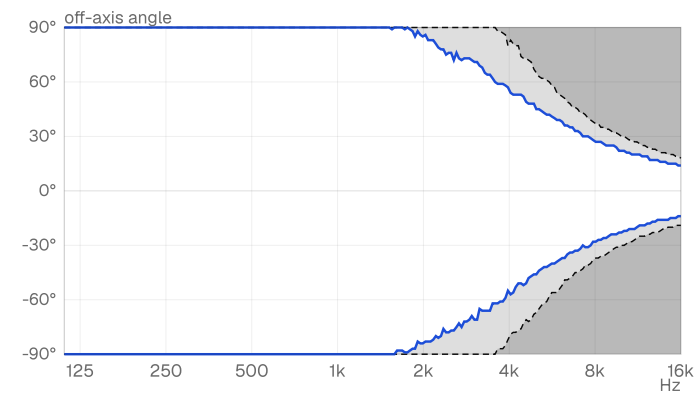


-6 dB horizontal beamwidth: 100° nominal

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.

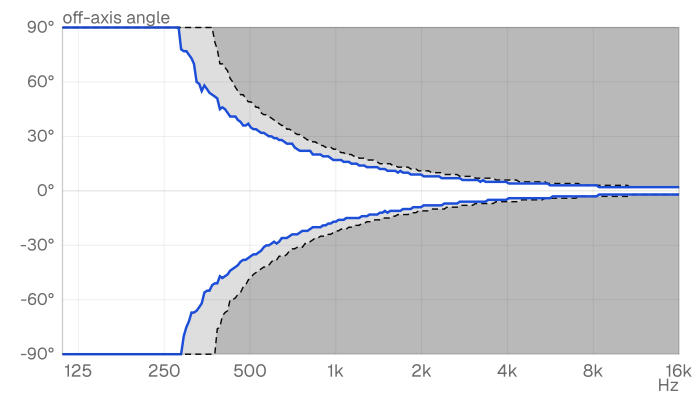
DIRECTIVITY

ISOBAR DIAGRAM, HORIZONTAL



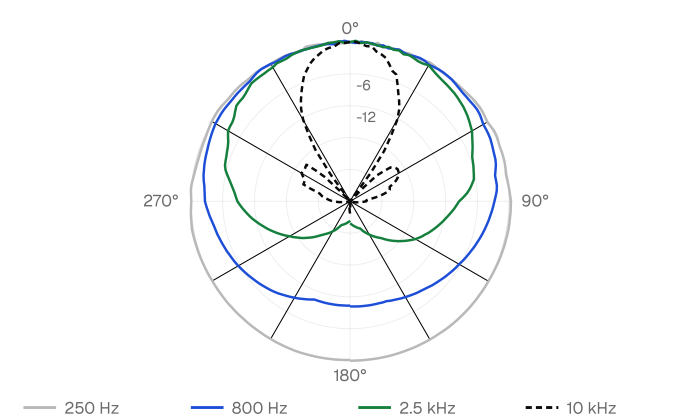
Lines of equal sound pressure. Blue: -6 dB. Dashed: -12 dB. White region holds within 6 dB of on-axis.

ISOBAR DIAGRAM, VERTICAL



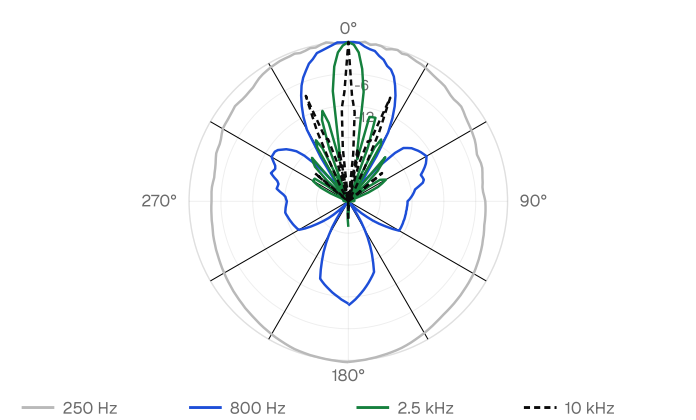
Lines of equal sound pressure. Blue: -6 dB. Dashed: -12 dB. White region holds within 6 dB of on-axis.

POLAR RESPONSE, HORIZONTAL



Normalised to on-axis. Rings at 6 dB intervals to a -30 dB centre. 1/3-octave band power. Charts span 110 Hz to 16 kHz, this cabinet's own operating band.

POLAR RESPONSE, VERTICAL



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

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 LC8.3D: 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.

ARCHITECTURAL & ENGINEERING SPECIFICATION

The amplifier shall be of the SSOUNDS LC8.3D type, configured as a self-powered column array, Dante network audio over PoE. The amplifier shall be capable of meeting the following performance criteria: a frequency response of 110 Hz – 18 kHz (–10 dB); a maximum sound pressure level of 112 dB @ 1 m; nominal coverage of 100° (H) × 18° (V). Electrically the amplifier shall provide a power rating of 30 W. The amplifier shall be constructed of Wood, measuring 720 × 124 × 155 mm, and shall weigh 8.8 kg / 19 lb. Rigging provision shall be Wall mount. The amplifier 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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