

# SSOUNDS LC16.3

16 × 3" full-range column, 127° × 24°, for announcements and speech in airports, stations and mosques.

**Part of the LC System.** Sixteen 3" drivers in a 1,401 mm cylindrical column, 127° horizontal: announcements and speech in airports, stations and mosques. LC stands for Line Column. Full system documentation at [s-soundspro.com/systems/lc](https://s-soundspro.com/systems/lc).



SSOUNDS LC16.3

## AT A GLANCE

|                                       |           |
|---------------------------------------|-----------|
| MODEL / SKU                           | CATEGORY  |
| SS-LC163                              | Columns   |
| BRAND                                 | DRIVE     |
| SSOUNDS                               | Passive   |
| POWER                                 | CONDITION |
| 400 W                                 | New       |
| APPLICATIONS                          |           |
| <div>COLUMNINSTALLSPEECHWORSHIP</div> |           |

## OVERVIEW

Large public interiors are built from hard materials, and in them intelligibility is lost to reflections long before it is lost to level. The LC16.3 is sixteen 3" full-range drivers in a 1401 mm straight line inside a slim cylindrical wooden enclosure. The length of the line keeps the vertical pattern to 24°, so energy is directed at the floor where people stand and kept off high ceilings, while the 127° horizontal covers a wide hall from a single wall position. It is the LC column for airport terminals, railway station concourses, metro halls, mosque prayer halls and large houses of worship, where announcements and the spoken word have to be understood at the back of a reverberant room.

- 16 × 3" full-range drivers in a 1401 mm straight line
- 127° (H) × 24° (V) coverage
- 106 Hz to 16 kHz (–10 dB)
- 122 dB continuous, 128 dB peak at 1 m from 96 dB sensitivity
- 400 W AES, 1,600 W peak, 8 Ω
- Slim cylindrical enclosure, 2 × NL4 speakON, wall bracket, 16 kg

## SPECIFICATIONS

### GENERAL

|      |                                  |
|------|----------------------------------|
| Type | Passive column array, full-range |
|------|----------------------------------|

ACOUSTIC PERFORMANCE

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Frequency response <sup>2</sup> | 106 Hz - 16 kHz (-10 dB)              |
| Coverage <sup>4</sup>           | 127° (H) × 24° (V)                    |
| Maximum SPL <sup>1</sup>        | 122 dB continuous · 128 dB peak @ 1 m |
| Sensitivity <sup>3</sup>        | 96 dB (1 W @ 1 m)                     |

TRANSDUCERS & COMPONENTS

|         |                                      |
|---------|--------------------------------------|
| Drivers | 16 × 3" full-range, 0.75" voice coil |
|---------|--------------------------------------|

ELECTRICAL

|                                          |                 |
|------------------------------------------|-----------------|
| Power handling (AES / peak) <sup>5</sup> | 400 W / 1,600 W |
| Nominal impedance <sup>6</sup>           | 8 Ω             |

CONNECTORS & I/O

|            |                 |
|------------|-----------------|
| Connectors | 2 × NL4 speakON |
|------------|-----------------|

RIGGING & MOUNTING

|          |              |
|----------|--------------|
| Mounting | Wall bracket |
|----------|--------------|

PHYSICAL & CONSTRUCTION

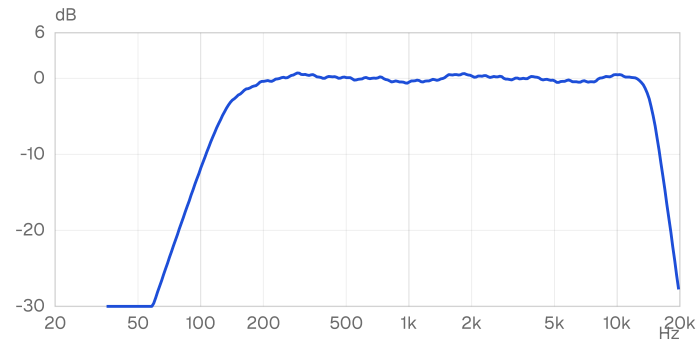
|                                     |                            |
|-------------------------------------|----------------------------|
| Dimensions (H × W × D) <sup>8</sup> | 1401 × 110 × 140 mm        |
| Net weight <sup>7</sup>             | 16 kg / 35 lb              |
| Enclosure                           | Wood · cylindrical profile |

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

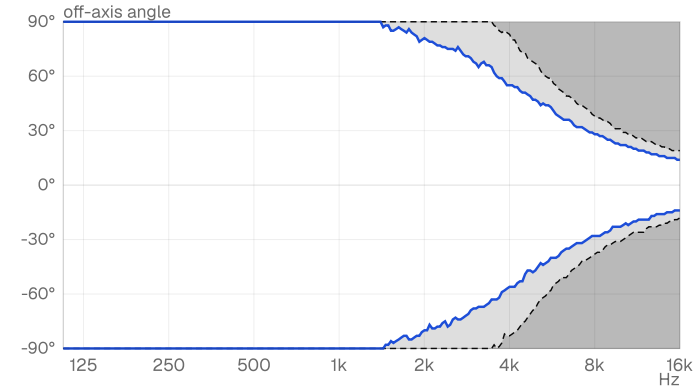


Frequency response: 106 Hz to 16 kHz (-10 dB) · 1/24-octave smoothed

**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  $\pm 1$  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.

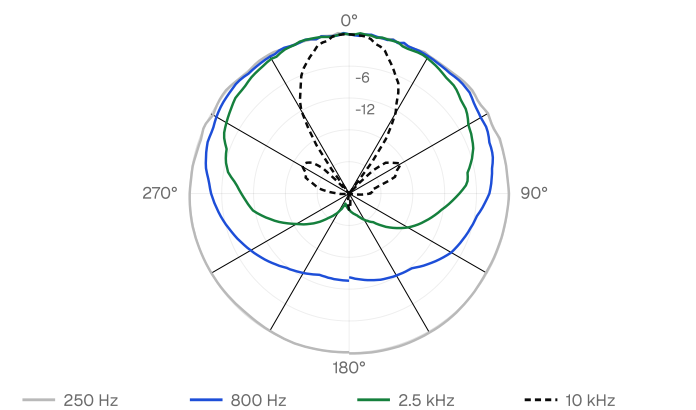
DIRECTIVITY

ISOBAR DIAGRAM, HORIZONTAL



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

POLAR RESPONSE, HORIZONTAL

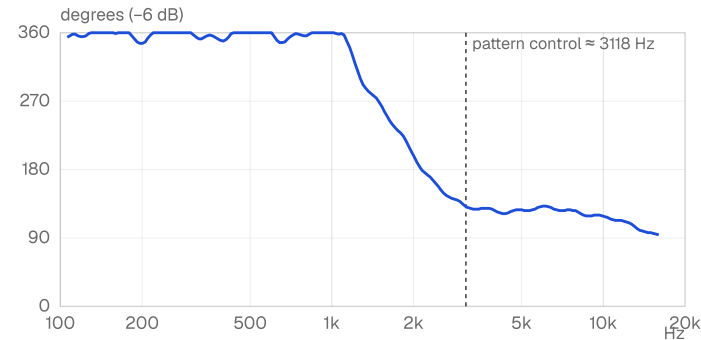


Normalised to on-axis. Rings at 6 dB intervals to a -30 dB centre. 1/3-octave band power.

Charts span 106 Hz to 16 kHz, this cabinet's own operating band.

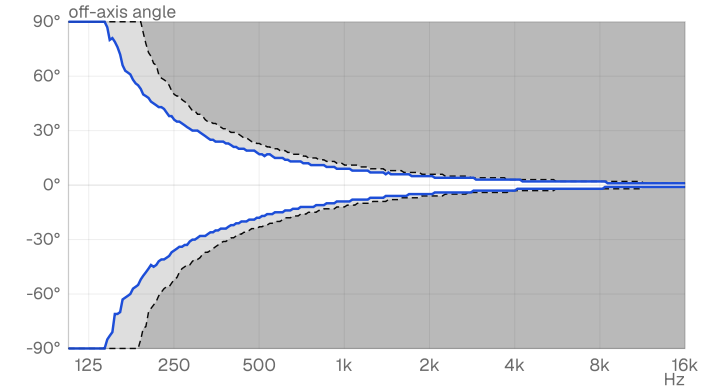
**Chart conditions.** Directivity charts are computed by the SSOUNDS system prediction engine as a phase-coherent wave solution of this product's driver complement: each way represented by its physical radiator (rigid-piston cones with real diameters and spacings; waveguides as continuous mouth apertures, 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.

HORIZONTAL BEAMWIDTH



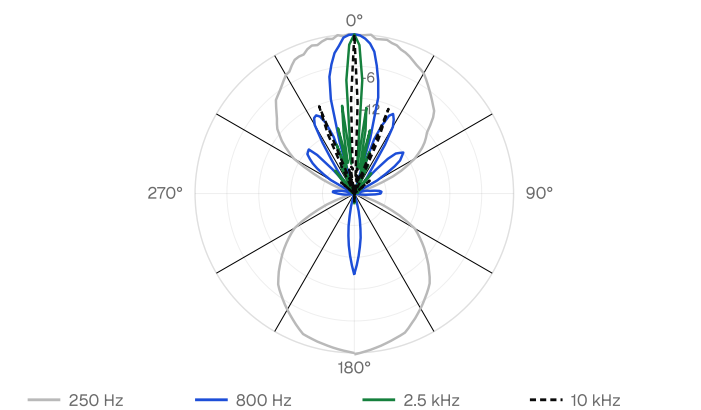
-6 dB horizontal beamwidth: 127° nominal

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, VERTICAL



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

DOWNLOADS & DATA FILES

|                                                                |           |
|----------------------------------------------------------------|-----------|
| <a href="#">SSOUNDS LC16.3: User Manual</a>                    | MANUAL    |
| <a href="#">Directivity table, horizontal (CSV) / vertical</a> | CSV       |
| <a href="#">SSOUNDS LC16.3: Technical Data Sheet</a>           | 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](mailto:support@s-soundspro.com) and we will send the current release for this model.

ARCHITECTURAL & ENGINEERING SPECIFICATION

The unit shall be of the SSOUNDS LC16.3 type, configured as a passive column array, full-range. The unit shall be capable of meeting the following performance criteria: a frequency response of 106 Hz – 16 kHz (–10 dB); a maximum sound pressure level of 122 dB continuous, 128 dB peak @ 1 m; a sensitivity of 96 dB (1 W @ 1 m); nominal coverage of 127° (H) × 24° (V). Electrically the unit shall provide a power handling of 400 W / 1,600 W, a nominal impedance of 8 Ω. Connection shall be by 2 × NL4 speakON. The unit shall be constructed of Wood, cylindrical profile, measuring 1401 × 110 × 140 mm, and shall weigh 16 kg / 35 lb. Rigging provision shall be Wall bracket. The unit 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

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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

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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](mailto:support@s-soundspro.com) · +44 20 3769 6537

LEGAL NOTICE

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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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**S SOUNDS PRO LTD**  
82a James Carter Road, Mildenhall, IP28 7DE, United Kingdom  
+44 20 3769 6537 · support@s-soundspro.com

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