

SSOUNDS CL6HD

6.5" two-way ceiling speaker with its own amplifier and DSP, Dante audio and PoE power on one network cable.

CL stands for Ceiling Loudspeaker.



SSOUNDS CL6HD

AT A GLANCE

MODEL / SKU	CATEGORY
SS-CL6HD	Commercial Audio
BRAND	DRIVE
SSOUNDS	Active
POWER	CONDITION
30 W	New
APPLICATIONS	
CEILINGINSTALLCOMMERCIALDANTENETWORK	

OVERVIEW

A distributed ceiling system normally means a rack of amplifiers, a run of loudspeaker cable to every zone and a tap setting on every speaker. The CL6HD replaces all of that with one network cable. Dante audio, Power over Ethernet and control arrive on a single RJ45, a built-in Class D amplifier drives a 6.5" low-frequency driver and a 1" high-frequency driver, and the onboard DSP carries EQ, gain, a limiter and mute, set and monitored with software that also reports each speaker's status and temperature. It covers 90° by 90° from 80 Hz to 20 kHz. We specify it for offices, meeting rooms, hotels, schools, airports and stations where every zone is already on the network.

- 6.5" low-frequency driver plus 1" high-frequency driver
- 90° × 90° coverage
- 80 Hz to 20 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
- Ø 224 mm cut-out, 5.1 kg

SPECIFICATIONS

GENERAL

Type	Self-powered two-way in-ceiling speaker, Dante network audio over PoE
Cooling	Natural convection, no fan

ACOUSTIC PERFORMANCE

Frequency response ²	80 Hz - 20 kHz (-10 dB)
Coverage ³	90° × 90°
Maximum SPL ¹	112 dB @ 1 m
Total harmonic distortion	≤ 1%

TRANSDUCERS & COMPONENTS

Drivers	LF 1 × 6.5", 1" voice coil · HF 1 × 1", 1" 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	Snap-on ceiling mount
Cut-out	Ø 224 mm, 230 mm mounting depth

PHYSICAL & CONSTRUCTION

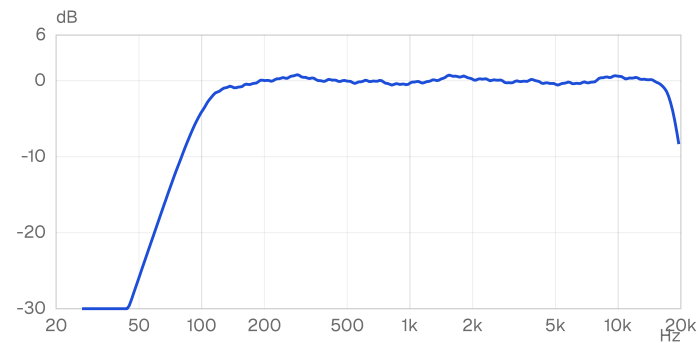
Dimensions ⁵	Ø 266 × 224 mm
Net weight ⁴	5.1 kg / 11 lb
Enclosure	ABS · steel

NOTES

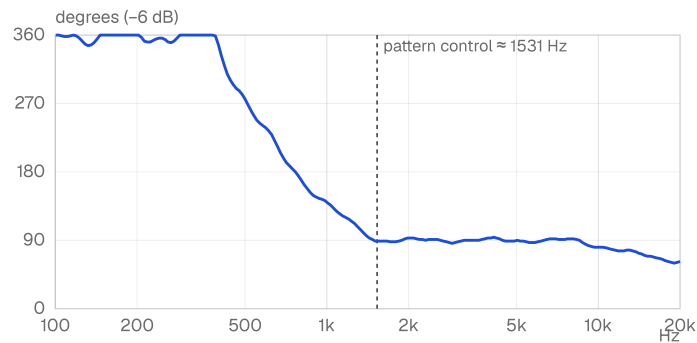
- 1. Maximum SPL is the peak level at 1 m, driven with pink noise at crest factor 4 to the clipping point of the recommended amplifier, with the SSOUNDS system preset applied. Full-range enclosures are specified under free-field conditions; figures marked half-space are specified over a reflecting plane, 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



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 CL6HD: User Manual](#)

MANUAL

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 CL6HD type, configured as a self-powered two-way in-ceiling speaker, Dante network audio over PoE. The amplifier shall be capable of meeting the following performance criteria: a frequency response of 80 Hz – 20 kHz (–10 dB); a maximum sound pressure level of 112 dB @ 1 m; nominal coverage of 90° × 90°. Electrically the amplifier shall provide a power rating of 30 W. The amplifier shall be constructed of ABS, steel, measuring Ø 266 × 224 mm, and shall weigh 5.1 kg / 11 lb. Rigging provision shall be Snap-on ceiling 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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