

SSOUNDS P15-X

3-way long-throw point source, 2 × 15", 4 × 6.5" and 2 × 3" behind a 70° × 40° waveguide, 2,000 W.

P stands for Point Source.



SSOUNDS P15-X · PRODUCT VIEWS

AT A GLANCE

MODEL / SKU	CATEGORY
SS-P15X	Point Source Speakers
BRAND	DRIVE
SSOUNDS	Passive
CONDITION	
New	
APPLICATIONS	
POINT-SOURCE	FOH
THREE-WAY	INSTALL

OVERVIEW

The P15-X is our long-throw point source: two 15" low-frequency drivers, four 6.5" mids and a pair of 3" compression drivers loaded onto a 70° × 40° constant-directivity waveguide. That narrow pattern is the point, it puts energy on the far seats instead of the walls, which is why it holds intelligibility at distances where a conventional two-way has already given up. 2,000 W recommended amplifier power at 8 Ω through a passive crossover on a single NL4, or specify the P15-XA for active tri-amplified operation with full DSP control of each section. Flown or ground-stacked for arenas, stadium infill, houses of worship and long rooms.

- 2 × 15" LF, 4 × 6.5" MF and 2 × 3" HF compression drivers in one cabinet
- 70° × 40° constant-directivity waveguide for genuine long throw
- 143 dB peak SPL with 45 Hz low-frequency reach
- 2,000 W recommended amplifier power at 8 Ω through a passive crossover, one NL4 per box
- Active tri-amplified variant (P15-XA) available for full DSP control
- Flown or ground-stacked on M10 fly points and yoke bracket

TECHNOLOGIES

 DYNACONTROL	Holds the tuned tonal balance as voice coils heat under sustained output.
 PHASETRUE	FIR phase-linear crossovers for a coherent impulse response through the crossover region.
 VOXCLEAR	Voicing developed for speech intelligibility in acoustically difficult rooms.

SPECIFICATIONS

GENERAL

Type	3-way point source · passive crossover
Certifications	CE · TÜV · EAC · WEEE

ACOUSTIC PERFORMANCE

Frequency response ²	45 Hz – 20 kHz (–10 dB)
Coverage ⁴	70° × 40° constant-directivity waveguide
Sensitivity ³	107 dB SPL nominal (1 W @ 1 m)
Maximum SPL ¹	143 dB peak @ 1 m

TRANSDUCERS & COMPONENTS

Low frequency	2 × 15" cone drivers · 8 Ω
Mid frequency	4 × 6.5" forward-facing cone drivers with phase plug, 50% waveguide-loaded · 8 Ω
High frequency	2 × 1.4" exit compression drivers, 3" coil · 8 Ω

ELECTRICAL

Recommended amplifier power ⁵	2,000 W
Nominal impedance ⁶	8 Ω
Crossover	Passive · active tri-amp variant available (P15-XA)

CONNECTORS & I/O

Connectors	2 × NL4 speakON (in / link)
Pin map	1+/1– full range · 2+/2– not linked

RIGGING & MOUNTING

Mounting	M10 fly points · yoke bracket · flown or ground-stacked
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PHYSICAL & CONSTRUCTION

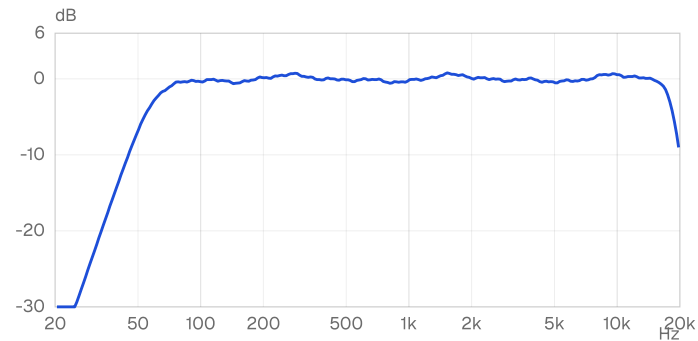
Dimensions (H × W × D) ⁸	1180 × 470 × 560 mm
Net weight ⁷	58 kg / 128 lb
Enclosure	18 mm Baltic birch · Polyurea finish
Grille	Powder-coated perforated steel with acoustic cloth backing
Handles	2 side · 2 rear recessed
Colour	Black (custom RAL on request)

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.

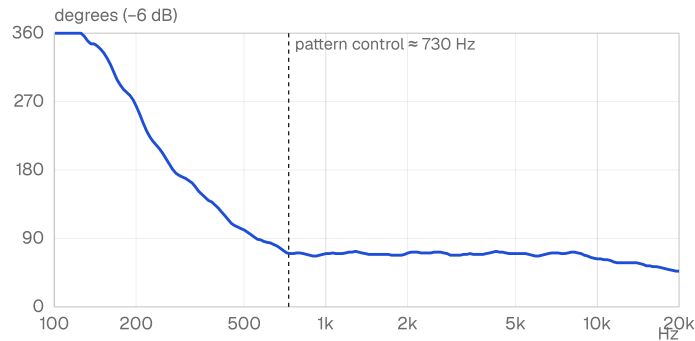
RESPONSE

FREQUENCY RESPONSE



Frequency response: 45 Hz to 20 kHz (-10 dB) · 1/24-octave smoothed

HORIZONTAL BEAMWIDTH

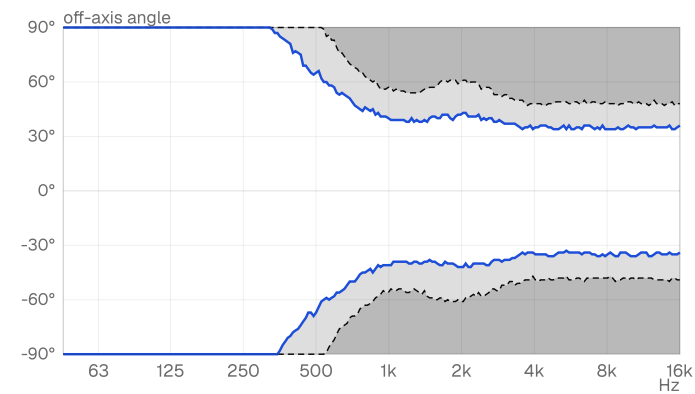


-6 dB horizontal beamwidth: 70° nominal

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.

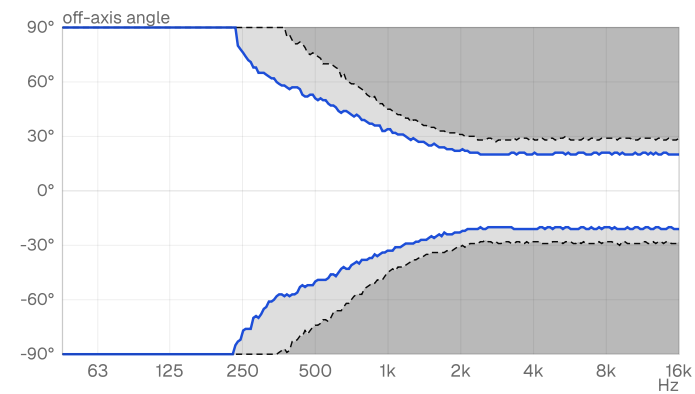
DIRECTIVITY

ISOBAR DIAGRAM, HORIZONTAL



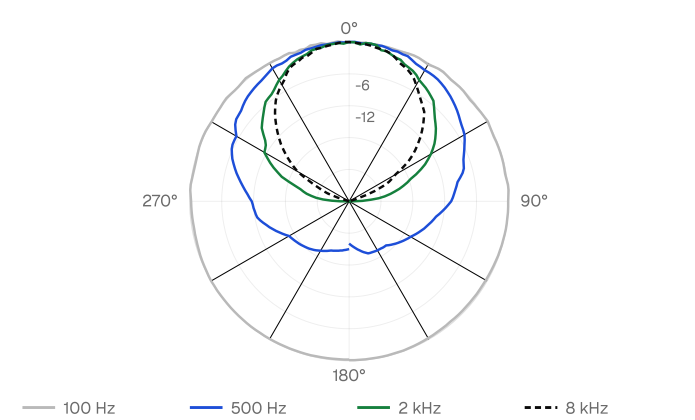
Lines of equal sound pressure. Blue: -6 dB. Dashed: -12 dB. White region holds within 6 dB of on-axis.

ISOBAR DIAGRAM, VERTICAL



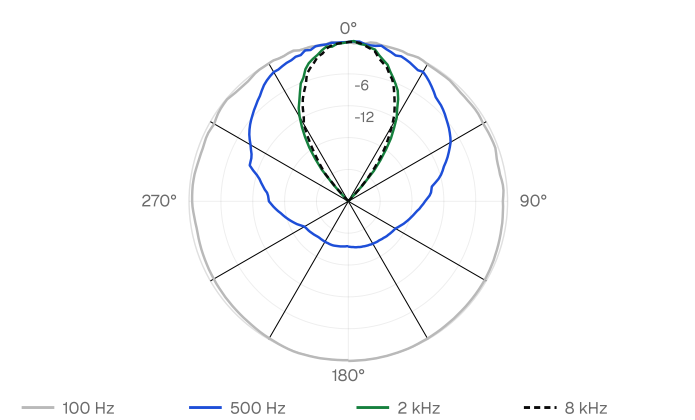
Lines of equal sound pressure. Blue: -6 dB. Dashed: -12 dB. White region holds within 6 dB of on-axis.

POLAR RESPONSE, HORIZONTAL



Normalised to on-axis. Rings at 6 dB intervals to a -30 dB centre. 1/3-octave band power. Charts span 45 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 P15-X: 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, up to 2 × P15-X per channel (passive, 8 Ω). The active P15-XA variant uses one D24X per cabinet in tri-amplified mode.

ARCHITECTURAL & ENGINEERING SPECIFICATION

The loudspeaker shall be of the SSOUNDS P15-X type, configured as a 3-way point source, passive crossover. The loudspeaker shall incorporate a low-frequency section of 2 × 15" cone drivers, 8 Ω, a mid-frequency section of 4 × 6.5" forward-facing cone drivers with phase plug, 50% waveguide-loaded, 8 Ω, a high-frequency section of 2 × 1.4" exit compression drivers, 3" coil, 8 Ω. The loudspeaker shall be capable of meeting the following performance criteria: a frequency response of 45 Hz – 20 kHz (–10 dB); a maximum sound pressure level of 143 dB peak @ 1 m; a sensitivity of 107 dB SPL nominal (1 W @ 1 m); nominal coverage of 70° × 40° constant-directivity waveguide. Electrically the loudspeaker shall provide a nominal impedance of 8 Ω, a crossover at Passive, active tri-amp variant available (P15-XA). The unit shall be passive. Connection shall be by 2 × NL4 speakON (in / link). The loudspeaker shall be constructed of 18 mm Baltic birch, Polyurea finish, measuring 1180 × 470 × 560 mm, and shall weigh 58 kg / 128 lb. Rigging provision shall be M10 fly points, yoke bracket, flown or ground-stacked. The 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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