

SSOUNDS XTO 14X

Cardioid dual 14" large-format element, 3-way quad-amplified, 153 dB peak, one D34X per box.

Part of the XTO System. The largest element. Stadium main hangs, side-firing 10" cardioid cancellation, one D34X per box. XTO stands for Xtended Touring Output. Full system documentation at s-soundspro.com/systems/xto.

AT A GLANCE

MODEL / SKU	CATEGORY
SS-XT0-14X	Line Array Speakers
BRAND	DRIVE
SSOUNDS	Passive
CONDITION	
New	
APPLICATIONS	
TOURING	LINE-ARRAY
	FOH



SSOUNDS XTO 14X · PRODUCT VIEWS

OVERVIEW

The XTO 14X is the largest element in the XTO System and the box the range was built to end at. Two 14" drivers handle the low end. Cardioid control comes from two 10" drivers firing to the side, cancelling rearward radiation so the rear of the stage stays clean without a second array pointed backwards. A third, horn-loaded 10" handles the midrange, and three 4"-coil compression drivers run in parallel into the horn. 153 dB peak from one cabinet.

Nothing is paralleled. Every 14X takes its own D34X, four sections driven independently, which is what makes shading a long hang a matter of preset rather than cabling. It carries the same titanium three-point rigging, the same Fast-Set splay, the same Socapex loom and the same preset library as the rest of the system, so a 14X main hang and a 12P outfill are one design decision, not two.

This is a stadium box. Below 18,000 capacity the 12P is usually the right answer.

- Cardioid by design: 2 × 10" side-firing drivers for rear cancellation
- 2 × 14" low frequency drivers
- 1 × 10" horn-loaded midrange
- 3 × 4"-coil compression drivers in parallel
- 153 dB peak @ 1 m
- 70° or 110° × 8° coverage
- One D34X per element: four sections, nothing paralleled
- Titanium 3-point captive rigging with Fast-Set splay
- 18 mm and 15 mm Baltic birch with Polyurea finish

TECHNOLOGIES

 CARDIOSTEER	Steerable cardioid arrays that direct low-frequency energy forward.
 DYNACONTROL	Holds the tuned tonal balance as voice coils heat under sustained output.
 FASTSET	Steel and aluminium rigging with captive titanium pins and detented splay for repeatable array geometry.
 PHASETRUE	FIR phase-linear crossovers for a coherent impulse response through the crossover region.
 SNET	Networked control and monitoring for every amplifier and processor in the system.
 VOXCLEAR	Voicing developed for speech intelligibility in acoustically difficult rooms.

SPECIFICATIONS

GENERAL

Type	3-way line-array element · quad-amplified · cardioid
Certifications	CE · TÜV (rigging system) · EAC · WEEE

ACOUSTIC PERFORMANCE

Frequency response ²	30 Hz - 20 kHz (-10 dB, estimated pending measurement)
Coverage ³	70° or 110° × 8°
Pattern control	Cardioid by side-firing 2 × 10in drivers cancelling rearward radiation
Maximum SPL ¹	153 dB peak @ 1 m

TRANSDUCERS & COMPONENTS

Low frequency	2 × 14" rear-loaded in angled end chambers
Mid frequency	2 × 10" at 45° plus 1 × 10" horn-loaded
High frequency	3 × 4"-coil compression drivers, parallel

ELECTRICAL

Recommended amplifier power ⁴	24,000 W (one D34X, 4 × 6,000 W @ 4 Ω)
Crossover	220 Hz · 1,100 Hz
Amplification	Quad-amplified by SSOUNDS D34X system DSP amplifier (LF · MF-direct · MF-horn · HF) · one D34X per element · nothing paralleled
Cabinets per amplifier	1 · every element shaded independently

CONNECTORS & I/O

Connectors	8-pole Socapex input + link output
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RIGGING & MOUNTING

System	High-grade titanium 3-point captive rigging · Fast-Set splay
Splay angles	0° - 6° adjustable (estimated, pending rigging test data)
Array compatibility	Locks with XTO 12P, XTO 10P and XTO 8P via transition hardware

PHYSICAL & CONSTRUCTION

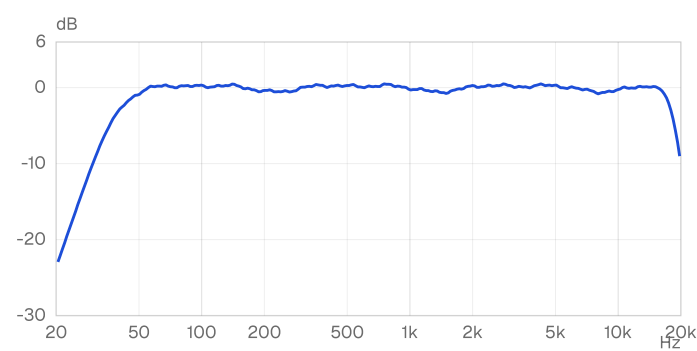
Dimensions (H × W × D) ⁶	391 × 1300 × 627 mm
Net weight ⁵	70 kg / 154 lb
Enclosure	18 mm and 15 mm Baltic birch · Polyurea finish
Colour	Black (custom RAL on request)

NOTES

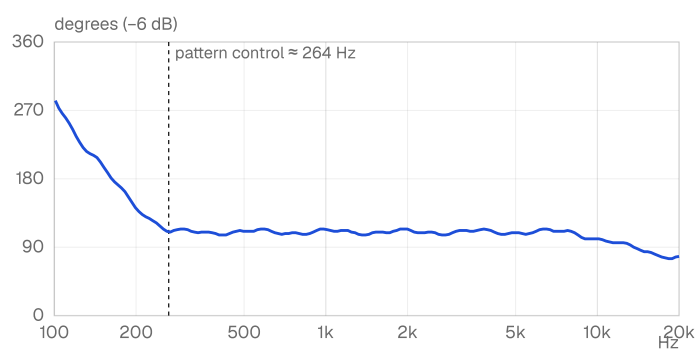
- 1. Maximum SPL is the peak level at 1 m, driven with pink noise at crest factor 4 to the clipping point of the recommended amplifier, with the SSOUNDS system preset applied. Full-range enclosures are specified under free-field conditions; figures marked half-space are specified over a reflecting plane, 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. 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. 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.
- 5. Net weight excludes packaging, flight case, accessories and optional rigging hardware.
- 6. Dimensions are stated in millimetres and exclude protruding rigging hardware, handles and connector panels unless noted.
- 7. All figures are typical values for production units specified under the conditions above. Individual units may vary within published tolerances.

RESPONSE

FREQUENCY RESPONSE



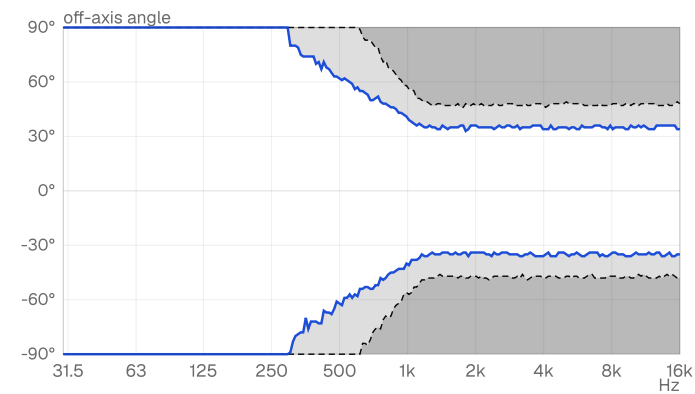
HORIZONTAL BEAMWIDTH



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.

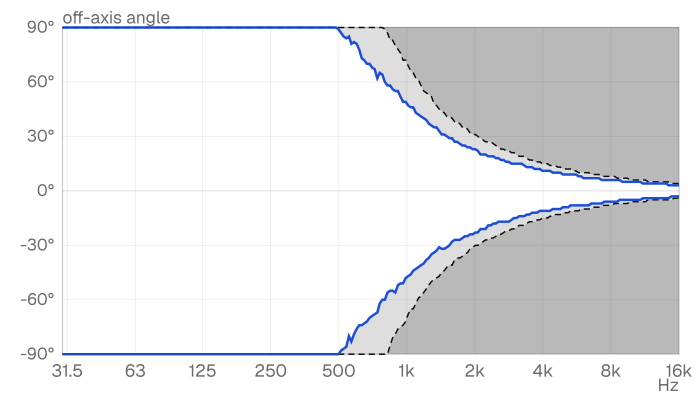
DIRECTIVITY

ISOBAR DIAGRAM, HORIZONTAL



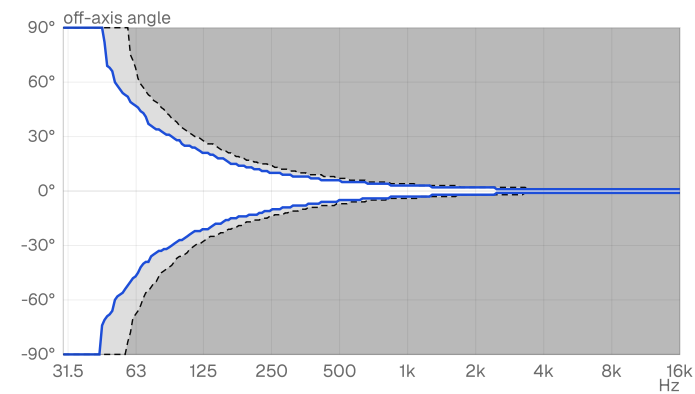
Lines of equal sound pressure. Blue: -6 dB. Dashed: -12 dB. White region holds within 6 dB of on-axis.

ISOBAR DIAGRAM, VERTICAL



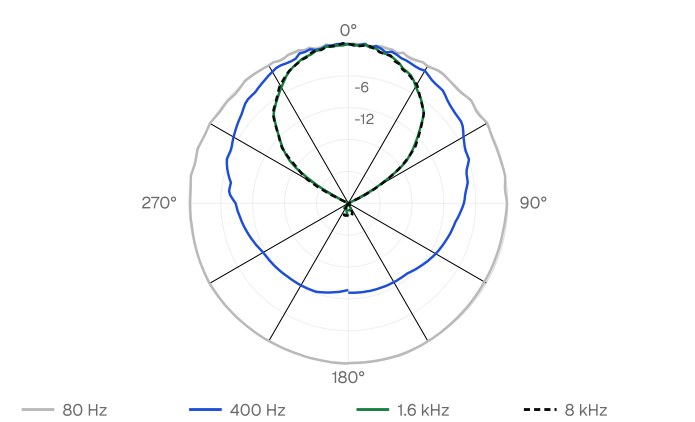
Lines of equal sound pressure. Blue: -6 dB. Dashed: -12 dB. White region holds within 6 dB of on-axis.

ISOBAR DIAGRAM, VERTICAL, 12-ELEMENT ARRAY



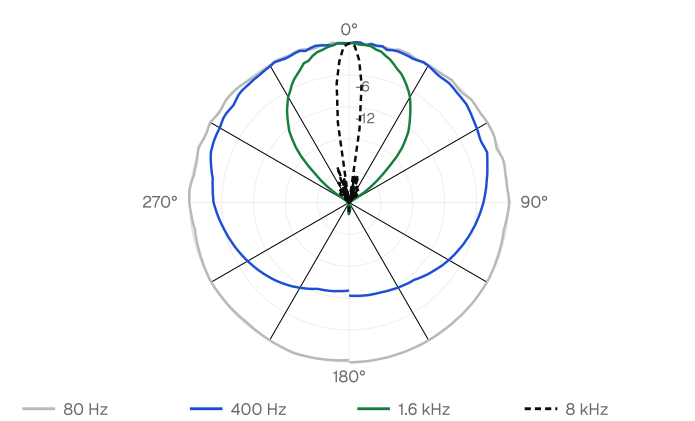
Lines of equal sound pressure. Blue: -6 dB. Dashed: -12 dB. White region holds within 6 dB of on-axis.

POLAR RESPONSE, HORIZONTAL



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

POLAR RESPONSE, VERTICAL



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

Charts span 30 Hz to 16 kHz, this cabinet's own operating band. The single-cabinet charts rate one element. Vertical pattern below the midrange is set by the length of the array, not by one box: the 12-element chart is a straight column of 4.69 m at 0° splay, and it is the figure to design from. Horizontal coverage is a property of the cabinet and does not change with array length.

VERTICAL COVERAGE BY ARRAY SIZE, -6 DB

Elements	Length	31.5	63	125	250	500	1k	2k	4k	8k
4	1.6 m	—	—	—	65°	31°	15°	7.7°	3.8°	1.9°
8	3.1 m	—	—	64°	31°	15°	7.6°	3.8°	1.9°	0.9°
12	4.7 m	—	89°	41°	20°	10°	5.1°	2.5°	1.3°	0.6°
16	6.3 m	—	63°	31°	15°	7.6°	3.8°	1.9°	0.9°	0.5°
20	7.8 m	114°	50°	24°	12°	6.1°	3.0°	1.5°	0.8°	0.4°
24	9.4 m	89°	41°	20°	10°	5.1°	2.5°	1.3°	0.6°	0.3°

Frequencies in Hz. A dash means the column is not yet long enough to hold a pattern at that frequency and radiates through the full vertical plane. Straight hang, 0° splay: splaying the array trades pattern width for reach and widens these figures.

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 XTO 14X: User Manual	MANUAL
Directivity table, horizontal (CSV) / vertical	CSV
SSOUNDS XTO 14X: 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-soundsprou.com and we will send the current release for this model.

SYSTEM OPERATION

Recommended: one SSOUNDS D34X per XTO 14P. The amplifier's four channels drive the four sections of a single cabinet and nothing is paralleled, so every element in a hang can be gain- and HF-shaded on its own.

That is the difference between the 14P and the rest of the range. On XTO 12P two cabinets share a D24X, which is ample resolution for most hangs. On a stadium-length 14P hang the extra resolution is the point: the top of the array and the bottom of the array are doing different jobs.

Load the XTO 14P preset and run the 8-pole Socapex loom carrying the four sections. The 14P locks to XTO 12P, 10P and 8P through the standard transition hardware, so a 14P main section can carry a 12P outfill or a 10P downfill in the same hang.

COMPATIBLE ACCESSORIES & OPTIONS

SS-BUMP-14X	SSOUNDS Flying Bumper for XTO 14X
SS-DOLLY-14X	SSOUNDS Dolly for XTO 14X
SS-JKT-14X	SSOUNDS Transit Jacket for XTO 14X
SS-RAIN-14X	SSOUNDS Rain Cover for XTO 14X

ARCHITECTURAL & ENGINEERING SPECIFICATION

The line array loudspeaker shall be of the SSOUNDS XTO 14X type, configured as a 3-way line-array element, quad-amplified, cardioid. The line array loudspeaker shall incorporate a low-frequency section of $2 \times 14"$ rear-loaded in angled end chambers, a mid-frequency section of $2 \times 10"$ at 45° plus $1 \times 10"$ horn-loaded, a high-frequency section of $3 \times 4"$ -coil compression drivers, parallel. The line array loudspeaker shall be capable of meeting the following performance criteria: a frequency response of 30 Hz – 20 kHz (–10 dB, estimated pending measurement); a maximum sound pressure level of 153 dB peak @ 1 m; nominal coverage of 70° or $110^\circ \times 8^\circ$. Electrically the line array loudspeaker shall provide a crossover at 220 Hz, 1,100 Hz. The unit shall be passive. Connection shall be by 8-pole Socapex input + link output. The line array loudspeaker shall be constructed of 1, every element shaded independently, measuring $391 \times 1300 \times 627$ mm, and shall weigh 70 kg / 154 lb. The line array 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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