

# SSOUNDS D14X

4-channel DSP amplifier with FIR, line-array power plus full system processing and presets.

**Part of the XTO, LS and M Systems.** Drives the 8P and smaller counts of the 10P. Full system documentation at [soundspro.com/systems/xto](https://soundspro.com/systems/xto).

## AT A GLANCE

|                                           |            |
|-------------------------------------------|------------|
| MODEL / SKU                               | CATEGORY   |
| SS-D14X                                   | Amplifiers |
| BRAND                                     | DRIVE      |
| SSOUNDS                                   | Active     |
| POWER                                     | CONDITION  |
| 8000 W                                    | New        |
| APPLICATIONS                              |            |
| <div>DSPAMPLIFIERFIRTOURINGDANTEAES</div> |            |



SSOUNDS D14X · PRODUCT VIEWS

OVERVIEW

The D14X is the DSP flagship amplifier, 4 channels of line-array power with full FIR-capable processing, loudspeaker presets and network control. It turns a rack into a complete SSOUNDS system engine: predict, deploy and control from one device. Processing runs on the SSOUNDS DSP platform, 32-bit floating point at 96 kHz: PhaseTrue linear-phase FIR crossovers with IIR shelving, parametric and notch sections, and DynaControl peak, thermal and excursion limiting on every channel. End-to-end latency is 0.466 ms, analog input to loudspeaker output.

- 4 × 1,000 W into 8 Ω, 4 × 2,000 W into 4 Ω, 8,000 W total
- 0.466 ms latency, analog input to loudspeaker output
- SSOUNDS DSP, 32-bit floating point at 96 kHz
- PhaseTrue linear-phase FIR crossovers, with IIR shelving, parametric and notch
- DynaControl peak, thermal and excursion limiting per channel
- Dante audio and SNet control over one network infrastructure
- 16-band input and 16-band output EQ, parametric, notch and shelving
- Variable-speed cooling under continuous temperature monitoring, with GPIO

TECHNOLOGIES

|                                                                                                      |                                                                                           |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|  <b>DYNACONTROL</b> | Holds the tuned tonal balance as voice coils heat under sustained output.                 |
|  <b>PHASETRUE</b>  | FIR phase-linear crossovers for a coherent impulse response through the crossover region. |
|  <b>SNET</b>       | Networked control and monitoring for every amplifier and processor in the system.         |
| <b>DANTE</b>                                                                                         | Dante® audio-over-IP with primary and secondary redundant ports.                          |

SPECIFICATIONS

GENERAL

|                |                                                                                       |
|----------------|---------------------------------------------------------------------------------------|
| Type           | 4-channel DSP power amplifier, networked                                              |
| Protection     | Over-current · thermal · DC · short-circuit                                           |
| Cooling        | Forced-air front-to-rear, variable-speed fans under continuous temperature monitoring |
| Certifications | CE · UKCA · TÜV (rack mounting) · FCC · cULus · EAC · RoHS                            |

PERFORMANCE

|                    |                          |
|--------------------|--------------------------|
| Frequency response | 20 Hz - 20 kHz (±0.5 dB) |
| THD+N              | < 0.02% @ 1 kHz          |
| S/N ratio          | > 112 dB (A-weighted)    |
| Damping factor     | > 500 @ 8 Ω              |
| Efficiency         | > 90%                    |
| Dynamic range      | 112 dB                   |

PROCESSING

|                   |                                                                                  |
|-------------------|----------------------------------------------------------------------------------|
| Presets and delay | SSOUNDS loudspeaker presets, per-channel delay                                   |
| Converters        | 32-bit AD / DA at 96 kHz                                                         |
| DSP platform      | SSOUNDS DSP, 32-bit floating point with 40-bit extended precision                |
| Latency           | 0.466 ms, analog input to loudspeaker output                                     |
| Crossover filters | PhaseTrue linear-phase FIR, with IIR shelving, parametric and notch sections     |
| Limiting          | DynaControl peak, thermal and excursion limiting, per channel                    |
| Equalisation      | 16 bands on the input and 16 bands on the output, parametric, notch and shelving |
| Load monitoring   | Per-channel load impedance monitoring with fault reporting over SNet             |
| Maximum delay     | 1,000 ms per channel                                                             |

ELECTRICAL

|                                     |                                |
|-------------------------------------|--------------------------------|
| Channels                            | 4 × Class-D                    |
| Power @ 8 Ω                         | 4 × 1,000 W                    |
| Power @ 4 Ω                         | 4 × 2,000 W                    |
| Minimum load impedance <sup>1</sup> | 2 Ω (all channels driven)      |
| Bridged @ 8 Ω                       | 2 × 4,000 W                    |
| Total output                        | 8,000 W                        |
| Mains                               | 100-240 V switch-mode with PFC |

CONNECTORS & I/O

|                   |                                                                            |
|-------------------|----------------------------------------------------------------------------|
| Network           | Dante audio network + control, 2 × RJ45 (primary / secondary, front panel) |
| Inputs / outputs  | 4 × XLR analog / AES3 · Dante · 4 × NL4 speakON out                        |
| Control           | SNet remote control and monitoring (SSOUNDS Network Manager)               |
| GPIO              | General-purpose I/O for external monitoring and control                    |
| Input sensitivity | 0 dBu / 6 dBu selectable                                                   |

PHYSICAL & CONSTRUCTION

|                         |              |
|-------------------------|--------------|
| Format                  | 19" 1U rack  |
| Net weight <sup>2</sup> | 7 kg / 15 lb |

ENVIRONMENT

|                       |                                                |
|-----------------------|------------------------------------------------|
| Operating temperature | -10 °C to +40 °C continuous, +50 °C short term |
| Storage temperature   | -20 °C to +70 °C                               |
| Humidity              | < 70% relative humidity, non-condensing        |

NOTES

1. Nominal impedance is the manufacturer's rating for amplifier load calculation; minimum impedance across the operating band may be lower.
2. Net weight excludes packaging, flight case, accessories and optional rigging hardware.
3. All figures are typical values for production units specified under the conditions above. Individual units may vary within published tolerances.

DOWNLOADS & DATA FILES

|                                           |        |
|-------------------------------------------|--------|
| <a href="#">SSOUNDS D14X: User Manual</a> | 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](mailto:support@s-soundspro.com) and we will send the current release for this model.

ARCHITECTURAL & ENGINEERING SPECIFICATION

The amplifier shall be of the SSOUNDS D14X type, configured as a 4-channel DSP power amplifier, networked. The amplifier shall be capable of meeting the following performance criteria: a frequency response of 20 Hz – 20 kHz (±0.5 dB); a sensitivity of 0 dBu / 6 dBu selectable. Electrically the amplifier shall provide a power rating of 8000 W, a nominal impedance of 2 Ω (all channels driven), a crossover at PhaseTrue linear-phase FIR, with IIR shelving, parametric and notch sections. Connection shall be by 4 × XLR analog / AES3, Dante, 4 × NL4 speakON out. The amplifier shall weigh 7 kg / 15 lb. 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

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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.

### 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.

### ELECTRICAL SAFETY

Connect only to a correctly earthed supply of the voltage and frequency stated on this sheet and on the product rating label. Where the supply is a generator, confirm stable voltage and frequency and adequate earthing before connection; unstable supply is the most common cause of amplifier failure and is not covered by warranty. Do not operate with a damaged mains lead or connector. There are no user-serviceable parts inside. Refer all servicing to SSOUNDS or an authorised service centre.

### 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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