



XSP-1 Gen2 balanced Preamplifier

The XSP-1 Gen 2 combines a pure, all-analogue, audiophile topology with an advanced digital control system. This maintains the purity of the audio signal, while offering advanced features, resolution, and accuracy far surpassing traditional designs. The XSP-1 Gen 2 delivers an uncompromised listening experience in Reference Playback mode by totally avoiding single-ended-to-balanced conversions from the signal path. Combined with instrumentation grade relays for input selection and high voltage, and a digitally-controlled analog resistor ladder network with 0.5dB per step resolution for volume, the XSP-1 Gen 2 maintains signal integrity and near perfect channel matching - even at very low listening levels.

The XSP-1 Gen2 packs a long list of features that make it the ideal centerpiece for your high performance audio system. It includes analogue bass management for perfect integration with 2.1 or 2.2 systems, as well as a high current, load-invariant headphone amplifier, an external signal processor loop, trigger inputs and outputs, and a full-featured milled aluminium remote control. A large VFD display shows system status messages and provides visual confirmation of all actions and settings.

And unlike many other preamps these days, the XSP-1 includes a truly stunning and extremely quiet phono preamplifier with inputs for both moving magnet and moving coil cartridges (with user-selectable loading)

Features

- All-analogue, fully balanced, differential signal path with vanishingly low noise and distortion
- 2 sets of balanced inputs, 4 sets of unbalanced inputs, one set of balanced main outputs, and one set of unbalanced main outputs
- Support for both stereo subwoofers and a summed mono subwoofer
- Audiophile quality, load invariant, high current headphone amplifier with independent level control and memory
- High performance phono preamp that supports both moving magnet and moving coil cartridges, with user-configurable cartridge loading for moving coil cartridges
- Full analogue bass management with independent, individually configurable, Linkwitz-Riley 12 dB/octave high-pass and low-pass filters for the mains and subs
- Gold plated, solid brass machined RCA connectors and gold plated XLR connectors
- Trigger Input and Output
- IR input and output
- Dimensions (W x H x D mm): 432 x 152 x 419 (includes feet and terminals)

FIVE YEAR WARRANTY

Specifications

- Line level Input: 2 pairs balanced; 4 pairs unbalanced
- Home Theatre (line level, left, right, sub) Input: 1 set balanced; 1 set unbalanced
- Processor Loop (line level) Input: 1 pair unbalanced
- Input Impedance (line level) Input: 50k ohms
- Phono Input (MM or MC): 1 pair unbalanced
- Main Outputs: 1 pair balanced; 1 pair unbalanced (Main outputs may be configured as flat or high-pass; high-pass is adjustable from 50 Hz to 250 Hz)
- Subwoofer (left, right, summed) Output: 1 set balanced; 1 set unbalanced (Subwoofer outputs may be configured as flat or low-pass; low-pass is adjustable from 50 Hz to 250 Hz)
- Processor Loop (line level) Output: 1 pair unbalanced
- Minimum recommended load impedance: 600 ohms
- Trigger Input and Output: 1 each
- IR input and output: 1 each
- Gain structure:
Nominal output level: 0 dBV (1 V); Nominal gain (with Volume set to "0"): 1; Maximum gain: +12 dB
- High-Frequency and Low-Frequency Trims:
HF trim (settings): -3 dB, -2 dB, -1 dB, Flat, +1 dB, +2 dB, +3 dB @ 12 kHz; HF trim (inflection point): 4 kHz
LF trim (settings): -3 dB, -2 dB, -1 dB, Flat, +1 dB, +2 dB, +3 dB @ 50 Hz; LF trim (inflection point): 200 Hz
- Bass Management: Crossover slopes (high-pass and low-pass): 12 dB / octave; Crossover frequency (high-pass and low-pass): User configurable, 50 Hz to 250 Hz
- Balanced Input to Balanced Output: S/N (signal-to-noise ratio, A-weighted, ref +6 dBV): > 117 dB; Frequency response: 20 Hz to 20 kHz +/- 0.02 dB; THD + N (harmonic distortion plus noise, @ 1 kHz): < 0.0004%; IMD (intermodulation distortion, SMPTE method, 60 Hz/7 kHz): < 0.001%; Crosstalk (measured at +6 dBF, 10 kHz): < 100 dB
- Unbalanced Input to Unbalanced Output: S/N (signal-to-noise ratio, A-weighted, ref +6 dBV): > 113 dB; Frequency response: 20 Hz to 20 kHz +/- 0.015 dB; THD + N (harmonic distortion plus noise, @ 1 kHz): < 0.0006%; IMD (intermodulation distortion, SMPTE method, 60 Hz/7 kHz): < 0.001%; Crosstalk (measured at +6 dBF, 10 kHz): < 102 dB
- Balanced Input to Unbalanced Output: S/N (signal-to-noise ratio, A-weighted, ref +6 dBV): > 114 dB; Frequency response: 20 Hz to 20 kHz +/- 0.015 dB; THD + N (harmonic distortion plus noise, @ 1 kHz): < 0.0005%; IMD (intermodulation distortion, SMPTE method, 60 Hz/7 kHz): < 0.0015%; Crosstalk (measured at +6 dBF, 10 kHz): < 105 dB
- Unbalanced Input to Balanced Output: S/N (signal-to-noise ratio, A-weighted, ref +6 dBV): > 115 dB; Frequency response: 20 Hz to 20 kHz +/- 0.017 dB; THD + N (harmonic distortion plus noise, @ 1 kHz): < 0.0003%; IMD (intermodulation distortion, SMPTE method, 60 Hz/7 kHz): < 0.007%; Crosstalk (measured at +6 dBF, 10 kHz): < 100 dB
- Phono (Moving Coil; phono in to balanced out): Gain (1 kHz, Volume at 0): approximately 60 dB; Input impedance (user selectable): 47 ohms, 100 ohms, 470 ohms, 1k ohm; S/N (signal-to-noise ratio, A-weighted, ref 1.0 mV in): > 79 dB; Frequency response (referenced to standard RIAA curve): 20 Hz to 20 kHz +/- 0.35 dB; THD (total harmonic distortion, ref 1.0 mV): < 0.008%; IMD (intermodulation distortion, SMPTE method: < 0.15 %; Crosstalk: < 65 dB)
- Phono (Moving Magnet; phono in to balanced out): Gain (1 kHz, Volume at 0): approximately 40 dB; Input impedance: 47k Ohms; S/N (signal-to-noise ratio, A-weighted, ref 10.0 mV in, A-weighted): > 96 dB; Frequency response (referenced to standard RIAA curve): 20 Hz to 20 kHz +/- 0.3 dB; THD (total harmonic distortion, ref 10 mV): < 0.001%; IMD (intermodulation distortion, SMPTE method: < 0.05%; Crosstalk: < 80 dB)
- Power Requirements: 115 VAC or 230 VAC +/- 10% @ 50 / 60 Hz (automatically detected and switched); Power consumption (On): 32 watts; Power consumption (Standby): <1 watt
- Dimensions (W x H x D mm): 432 x 152 x 419 (includes feet and terminals)

