



**LINDEMANN.**  
high fidelity excellence

## 830S Stereo Control Amplifier

The 830S Stereo Control Amplifier combines technical perfection and absolute neutrality with captivating musicality. Innovative technologies, intelligently applied, are the key to this component's unsurpassed low-level resolution, negligible information loss and extremely low distortion. Measured performance is at the limit of what is currently technically possible. But the 830S is far more than a high-precision control centre. This exceptional preamplifier readily copes with the demands of all kinds of music. It is capable of developing a breathtaking, richly detailed soundstage with natural tonal colours that inspire the listener to be at one with the music. The 830S resolves the finest details as convincingly as powerful blasts. Lively and agile, emotional and sensitive, involving and dynamic: the 830S preamplifier delivers sheer listening pleasure and is a dream component in any audiophile music system.



### Fully balanced design

Signal processing within the 830S is fully balanced throughout. Unbalanced input signals are converted to balanced. Even the volume control and output stages, which use premium components from the world of professional audio, are fully-balanced designs.

The critical input signals are switched via special low-capacitance gold contact relays acting on both signal and ground. This actively and effectively avoids sound quality degradation caused by earth leakage currents when several items of equipment are connected.

The preamplifier is built on a 4-layer printed circuit board. Perfect channel symmetry is achieved using layout techniques specially fine-tuned for audio, such as the mirrored dual-mono configuration and sophisticated grounding scheme. These contribute greatly to the preamp's more than 120 dB channel separation, which is one of the secrets of the 830's holographic imaging.

### High current output stages

The 830S is equipped with two balanced output stages per channel, each designed to provide generously high current delivery with consistently low levels of distortion into load impedances between 300  $\Omega$  and 100 k $\Omega$ . The amplifier modules employ current feedback. The particularly high rise time of the circuit design contributes fundamentally to the tonal richness of the 830S.

Longer signal cable runs – to monoblocks or active speakers, for example – are no problem for the 830S. Both output pairs can be switched on and off individually via the setup menu and their relative gain can be adjusted over a range of  $\pm 10$  dB. This feature allows the user to fine-tune the levels of bass and mid-highs in a biamped system.

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## Strict separation of signal processing and control

To eliminate undesirable interference, the power supply and control electronics have been physically and electrically separated from the more sensitive areas of the preamplifier. Separate transformers supply the audio circuits and control circuits. The specially manufactured audio transformers incorporate additional shielding to reduce power line interference.

## Advanced power supply

Preamplifiers are extremely sensitive to power supply quality, as this is where all of the signals in a system meet and are amplified. The layout and grounding design of a preamplifier has a decisive influence on the sound quality of the whole system. The grounding scheme of the 830S is unique, in that it differentiates between conductors and purely static screening surfaces. All grounds are arranged in a star topology with a single reference point to ensure exceptional tonal purity and the maximum possible channel separation.

The power supply of the 830S is generously filtered with over 40,000  $\mu\text{F}$  of smoothing, with chokes in the analogue section. There is separate, two-stage regulation of the supply voltage to each channel of the audio signal board. After initial regulation to suppress fluctuations in the power line, the supply voltages of all modules are accurately set locally via low-noise, ultra-fast parallel regulators.

The 830S can be optionally equipped with an integrated power supply for the 820 Super Audio CD Player's D/A converter. Thus the 820's external power supply (800 Analog Power Supply) is no longer needed.

## Comprehensive specification level

The 830S offers a generous range of connection options. Up to 6 analogue sources can be connected via 3 pairs of balanced and 3 pairs of unbalanced inputs. On the output side, 2 pairs of record outs and 2 pairs of line outs are provided.

The SYSCOM communications interface links the 830S directly to the 820 Super Audio CD player, at the same time bypassing the volume control of the 820 and replacing it with that of the 830S. The 830S also assumes direct control of the 4 digital inputs on the 820, thus providing the user with a total of 4 digital and 6 analogue inputs that can be controlled from the preamp. Input 1 is equipped with a power supply feed for the separate Lindemann phono preamplifier, which allows a turntable to be connected via a balanced connection. The phono preamplifier is then powered by the high quality power supply of the 830 and does not need its own power supply. Input 6 can be configured either as a normal input or as a monitor input for use with tape machines or for inserting an equalizer.

The duplicate output stages of the 830S can drive two stereo power amplifiers (for biamping, for example).

## Wide range of user features

The 830S is easy and intuitive to operate using the controls on the front panel or the system remote. Information on the active input, the output level, and other current settings is available at any time from the easy-to-read display.

In the AMP setup, parameters such as gain, balance, monitor, absolute phase, maximum volume, mute level and display brightness can be changed to suit individual requirements. The inputs of the 830S are freely configurable: their name, gain and absolute phase may be altered to suit the source component. Unused inputs can be removed from the selection. The 2 line outputs available for each channel are adjustable relative to each other.

The 830S can be incorporated into a home cinema system without any problem. To do this, simply switch the input to the 0dB setting and the signal will pass from the input to the line out without any change in level.

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## 830S Stereo Control Amplifier / Specifications



<b>Voltage gain</b>	0dB, 10dB, 20dB (einstellbar)
<b>Volume control range</b>	60dB in 0.5dB-steps
<b>Balance control range</b>	-5dB.....+5dB
<b>Gain accuracy</b>	0.05dB min.
<b>Channel balance</b>	< 0.05dB
<b>Maximum input voltage</b>	6.0V balanced und unbalanced
<b>Maximum output voltage</b>	6.0V balanced
<b>Input impedance</b>	10k $\Omega$ balanced 5k $\Omega$ unbalanced
<b>Output impedance</b>	20 $\Omega$ balanced
<b>THD</b>	< 0.0001% @ 2V output in 600 $\Omega$ < 0.0005% @ 5V output in 600 $\Omega$
<b>Signal to noise ratio</b>	> 120 dB @ max. output
<b>Frequency response</b>	1 Hz – 500 kHz (-3dB)

<b>Crosstalk L&gt;&gt;R</b>	< -120dB @ 1kHz
<b>Crosstalk inputs</b>	< -100dB @ 1kHz
<b>Dimensions</b>	440 x 105 x 345 mm (incl. feet)
<b>Weight</b>	10.0 kg
<b>Power supply</b>	100 V, 120 V, 230 V (50-60 Hz) factory set for destination country
<b>Power consumption</b>	30W max.
<b>Inputs</b>	(3) pairs line inputs (XLR) (3) pairs line inputs (RCA)
<b>Outputs</b>	(2) pairs line outputs (XLR) (2) pairs record outputs (RCA)
<b>Other connections</b>	(1) Sub-D 15-pole, DAC supply 820 (1) Sub-D 9-pole, supply for external phono (1) earthing post for phono (4) RJ-45 4-pole, SYSCOM (1) IEC power inlet
<b>Accessories supplied</b>	(1) 830S Stereo Control Amplifier (1) Standard power cord, 1.5 m (1) System remote control

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