

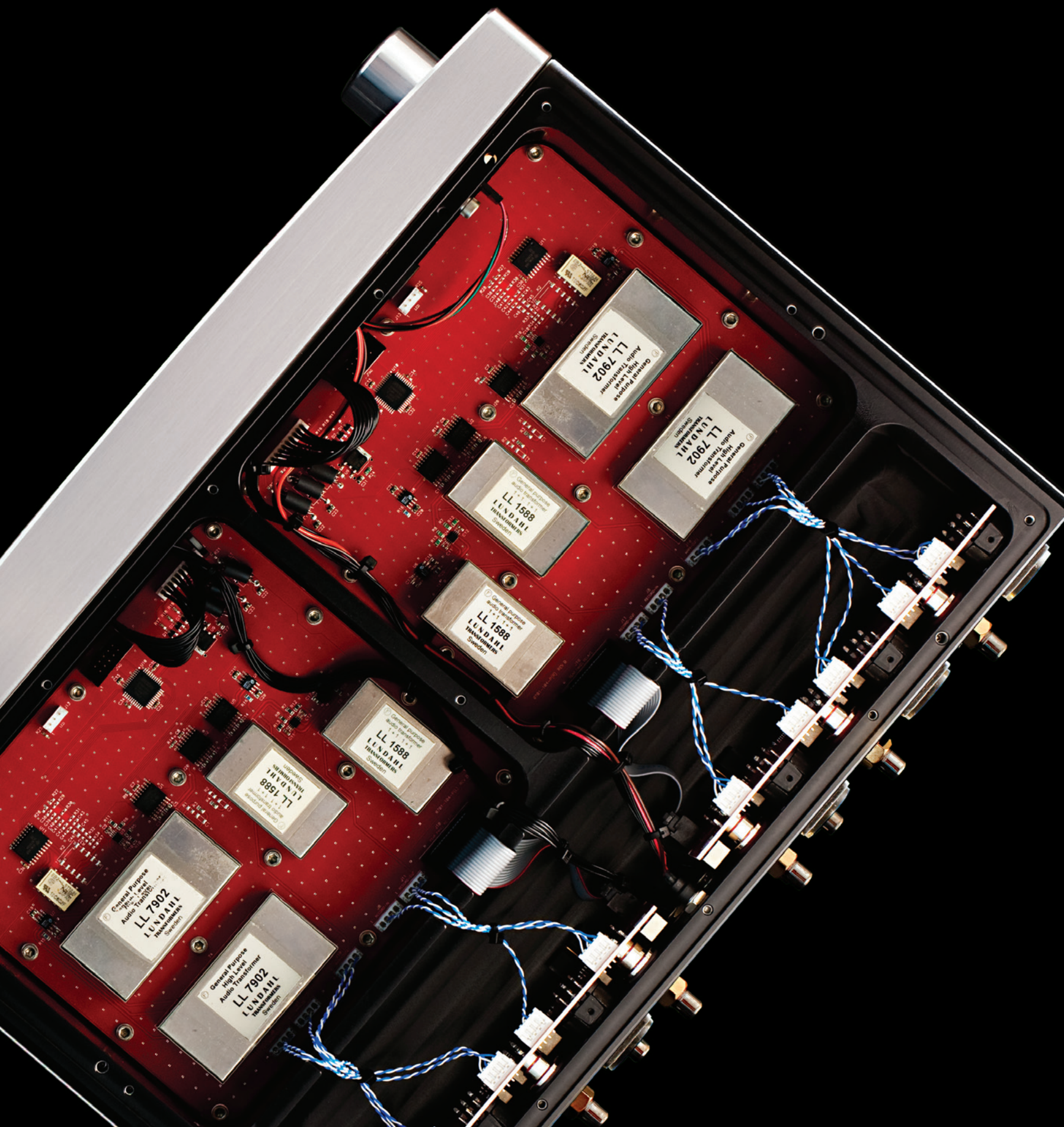


## Corus Preamplifier

Precision machined from a single block of nonresonant aircraft-grade aluminum, the Corus Preamplifier's main chassis houses all audio and control circuits, entirely isolating the power supply in its own external machined aluminum housing.

The Corus Preamplifier features fully isolated transformer-coupled inputs/outputs combined with military-grade 4-layer ceramic circuit boards, delivering a sensuous grain free musicality with astonishing transparency and low level resolution.

There are no short cuts to perfect sound.



# Corus Preamplifier

## TECHNICAL FEATURES

<b>Machined Aluminum Chassis</b>	Preamplifier circuitry housed inside a single ultra-low resonance, structurally rigid chassis, precision-machined from a solid block of aircraft grade 6061-T6 aluminum, completely sealed for maximum electrical/EMI/RFI isolation.
<b>Functional Isolation</b>	Power supply is confined inside an external machined aluminum chassis. Sensitive audio circuits isolated from power supply in main preamplifier chassis. Left and right channel circuits are further isolated into individual milled aluminum pockets in a true dual mono design for ultimate EMI/RMI shielding.
<b>Ceramic Circuit Boards</b>	All audio circuits are implemented on military-grade, multi-layer, low dielectric constant, Rogers™ ultra-rigid ceramic circuit board substrate for extremely low energy retention and absorption. Large low impedance ground plane areas for extended internal star-grounding.
<b>Ceramic Capacitors</b>	Newly developed ceramic capacitors replace conventional electrolytics, resulting in power supply noise decoupling improvements by an order of magnitude (10X), especially at higher frequencies.
<b>Dual Zone Pre-amplification</b>	Separate 2nd gain stage for record outputs offers same circuitry as the primary signal path with independent volume control.
<b>Transformer-Coupled</b>	All inputs and outputs routed through professional grade Lundahl transformers for maximum common noise rejection, EMI immunity, and cross-component compatibility. Transformer coupling to all circuits ensures identical gain for both balanced and unbalanced inputs and outputs.
<b>Flexible Connectivity</b>	6 inputs (4 XLR balanced, 2 RCA unbalanced); 4 main outputs (2 XLR balanced, 2 RCA unbalanced); 2 record outputs (1 XLR balanced, 1 RCA unbalanced); per channel.
<b>Output Offset</b>	High-resolution programmable gain offset on main unbalanced output 2 with 0.5dB resolution adjustable relative to main output 1.
<b>Unity Gain Inputs</b>	Any main input can be configured as a unity gain bypass for compatibility with theater processors.
<b>Channel Balance</b>	High-resolution (1.0dB) panning of stereophonic image (channel balance) for a maximum +/-20dB shift.
<b>VFD</b>	Long life 32x320 pixel custom graphic vacuum fluorescent display (VFD) offers maximum resolution of display data for status indication.
<b>Handheld Remote</b>	Highly ergonomic, custom handheld remote transmitter milled from aluminum billet supports complete system control and duplicates front panel operations.
<b>Remote sensor</b>	Wired remote sensor milled from aluminum billet enables handheld remote transmitter operation while housing preamplifier in closed cabinet enclosures.
<b>Quiet power-up</b>	No turn-on or turn-off transients during intermittent power interruptions.

Discover more at [www.jeffrowland.com](http://www.jeffrowland.com)

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## SPECIFICATIONS

<b>Overall Gain</b>	Maximum 7 dB , +/- 20 dB programmable on each input
<b>Gain Range</b>	99.5 dB, 199 Equal Increments
<b>Gain Resolution</b>	0.5 dB, +/- 0.03 dB Over Entire Range
<b>Frequency Response</b>	10 Hz – 300 kHz, -3 dB @ 8 ohms
<b>Maximum Input Level</b>	13.5 volts (RMS) @ 0 dB Gain
<b>Maximum Output Level</b>	13.5 volts (RMS)
<b>THD + Noise</b>	< .003% @ 2 volt (RMS) Output, 50 Hz – 20 kHz
<b>Signal-to-Noise Ratio</b>	> 100 dB
<b>Common Mode Rejection Ratio</b>	> 90 dB, 20 Hz – 20 kHz
<b>Channel Separation</b>	> 93 dB, 20 Hz – 20 kHz
<b>Input Impedance</b>	40k ohms Balanced or Unbalanced
<b>Output Impedance</b>	60 ohms Balanced or Unbalanced
<b>Inputs</b>	4 pair Balanced (XLR), 2 pair Unbalanced (RCA)
<b>Outputs</b>	2 pair Balanced (XLR), 2 pair Unbalanced (RCA) for Main
<b>Power Consumption</b>	15 watts
<b>Power Supply</b>	Universal Voltage Input Power Factor Corrected Power Supply
<b>Display</b>	320 x 32 dot Vacuum Fluorescent Display (VFD)
<b>Preamplifier Weight</b>	22 lbs. / 10 kg
<b>Power Supply Weight</b>	6 lbs / 2.7 kg
<b>Preamplifier Dimensions (h/w/d)</b>	3.9" x 15.5" x 12.3" (99mm x 394mm x 312mm)
<b>Power Supply Dimensions (h/w/d)</b>	2.9" x 4.7" x 11" (73mm x 119mm x 279mm)



JEFF ROWLAND  
DESIGN GROUP

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