

# **EVOLUTION 707**

**SURROUND PREAMP/PROCESSOR**

**KRELL**  
THE LEADER IN AUDIO ENGINEERING



**State-of-the-art audio performance  
meets high definition video processing  
in a dual zone preamp/processor design  
that knows no compromise.**

The Evolution 707 Surround Preamp/Processor  
custom all-aluminum chassis is available  
in luxurious silver or black  
anodized finish.

# EVOLUTION 707

SURROUND PREAMP/PROCESSOR

## DESIGN

The Evolution 707 has 8.4 channels of audio output featuring 2 center channel outputs and 4 subwoofer outputs, for maximum flexibility in system design. Two digital signal processors (DSPs), Crystal CS497004s, are employed to perform all surround mode processing. The Evolution 707 supports Dolby Digital Surround EX, Dolby Digital 5.1, DTS 6.1 ES, DTS 5.1, DTS NEO:6, Dolby Pro Logic II processing as well as Dolby TrueHD and DTS HD Master Audio lossless surround formats over HDMI™ 1.3, plus 9 proprietary Krell Music Surround modes. Digital processing circuitry runs in double precision mode at a word length of 64-bits for the most precise division of frequencies and optimization of the system's speaker/subwoofer combination. Twelve output stages are fully balanced and feature Krell Current Mode™ topology with 1.5 MHz of bandwidth for accurate reproduction of today's demanding movie soundtracks.

Evolution CAST™ outputs are supported for all 12 channels. Current audio signal transmission (CAST) is a proprietary method of sending the audio signal between components in the current domain, from a

high impedance transmitter to a low impedance receiver. Krell components connected in Evolution CAST act together as an electrically unified whole, free from the deleterious effects normally imposed by the connecting cables. Preamp mode bypasses all digital circuitry and routes the analog input, stereo or 7.1 multi-channel, directly to the volume control for the purest path possible. Separate power supplies for digital and analog circuit paths are linear designs and feature custom made, low-noise transformers and robust regulation. Remote control options include bi-directional RS-232 communication, multiple 12 VDC triggers, and a direct RC-5 input.

The all-discrete analog video circuitry provides pristine pass-through of all progressive and wideband high definition signals including HDMI™. Inputs and outputs for composite, S-video, component, and HDMI™ 1.3 are supported. On Screen Display set-up and status is available on all video outputs, all the time, including up-conversion to component and HDMI progressive outputs. Any SD or HD video standard may be converted up to 1920 x 1080p at 60 Hz.

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## FEATURES

- Two Zone 8.4 Preamp/processor
  - Individual 24-bit/192 kHz DACs
  - HDMI™ 1.3, Dolby True HD, and DTS HD
  - RS-232, RC-5, 12 VDC Triggers
  - Discrete Differential Class A Output Stages
  - Ultra High 1.5 MHz Bandwidth Design
  - Evolution CAST™ Input and Output
  - Krell Current Mode™
  - Up-conversion to 1920 x 1080p at 60Hz
  - 17.3 W, 9.8 H, 22.1 D, in.  
43.9 W, 24.9 H, 56.1 D, cm
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*All operational features, functions, specifications, and policies  
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