

KRELL Design Features: Evolution 707 Surround Preamp/processor

AUDIO

- 8.4 channels of audio output features 2 center channel outputs and 4 subwoofer outputs, for maximum flexibility in system design.
- Two digital signal processors (DSPs), the Crystal CS49623 and the CS49302 are employed to perform all surround mode processing.
- 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, plus 9 proprietary Krell Music Surround modes.
- Digital processing circuitry runs in double precision mode at a word length of 48-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 the 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.
- Custom all-aluminum chassis boasts impeccable fit and finish.
- Separate power supplies for digital and analog circuit paths are linear design and feature custom made, low-noise transformers and robust regulation.

- Remote control options include bidirectional RS-232 communication, multiple 12 VDC triggers, direct RC-5 input. The processor is Crestron I²P certified for use with touchpanel based systems.

VIDEO

- The all-discrete video circuitry, with a bandwidth of 350 MHz, provides pristine pass-through of all progressive and wideband high definition signals including HDMI.
- Inputs and outputs for composite, S-Video, component, and HDMI are supported.
- On Screen Display set-up and status are available on all video outputs, all of the time, including upconversion to component and HDMI progressive outputs.
- Any SD or HD video standard may be converted up to 1920 x 1080p at 60Hz.
- Faroudja DCDi Cinema (Directional Correlational Deinterlacing)
 - A per pixel video format convertor—a unique algorithm identifies all the moving edges in a scene and adjusts the angle of interpolation at each pixel.
 - Elimination of staircasing or jagged edge artifacts
 - Film mode detection features bad edit correction.
 - Emmy award winning
- Faroudja Truelife Video Enhancer
 - Identifies transitions considered to be the details in an image such as skin texture, freckles or hair for artifact free image enhancement.
- Motion Adaptive processing reduces noise without introducing smearing.
- VCR sources may be processed and output via HDMI.
- Support for a second video zone is included.

KRELL
THE LEADER IN AUDIO ENGINEERING

Krell Industries, Inc.
45 Connair Road • Orange, CT 06497-3697 USA
203-298-4000 • Fax: 203-799-9796 • Sales Fax: 203-891-2028
krell@krellonline.com • www.krellonline.com

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P/N 309584-W