



**KRELL**  
THE LEADER IN AUDIO ENGINEERING

# Engineered Performance

Today, after more than three decades of critically acclaimed, award-winning designs, the Krell badge is synonymous with music reproduction that fills a room with intoxicating detail and startling dynamics. Like live music, effortless power and instant response elicit a visceral reaction that engages all the senses. Yielding phenomenal power in the most refined manner imaginable, a Krell music or home theater system is a synthesis of almost impossible contradictions; a unique blend of beauty, grace, and power.



Krell continues to define the ultimate experience in music and home theater reproduction. Pairing superior materials, advanced manufacturing techniques, and inventive engineering to a core collection of unimpeachable design tenets defines Krell components. This underpinning infuses all Krell models and delivers performance that is simply breathtaking. From source to speaker, stereo or home theater, the Krell difference is obvious and seductive. Be warned, your first Krell experience will not be your last.



Krell CAST™

Current Audio Signal Transmission, termed CAST, is a revolutionary method of connecting analog audio components for unparalleled sonic performance.

Throughout the design process, rigorous application of Krell design principles focuses on three major performance factors: musical detail, three dimensional sound presentation, and extreme volume capability. The free pursuit of the most realistic music reproduction is the heart of Krell design and this heart beats strongest in this new collection of Krell stereo and home theater products. Each model in the new collection shines as a solo player but truly sparkles as part of a Krell ensemble connected together using Krell CAST MMF interconnect technology and a finale of Krell Modulari Duo Reference Loudspeakers.





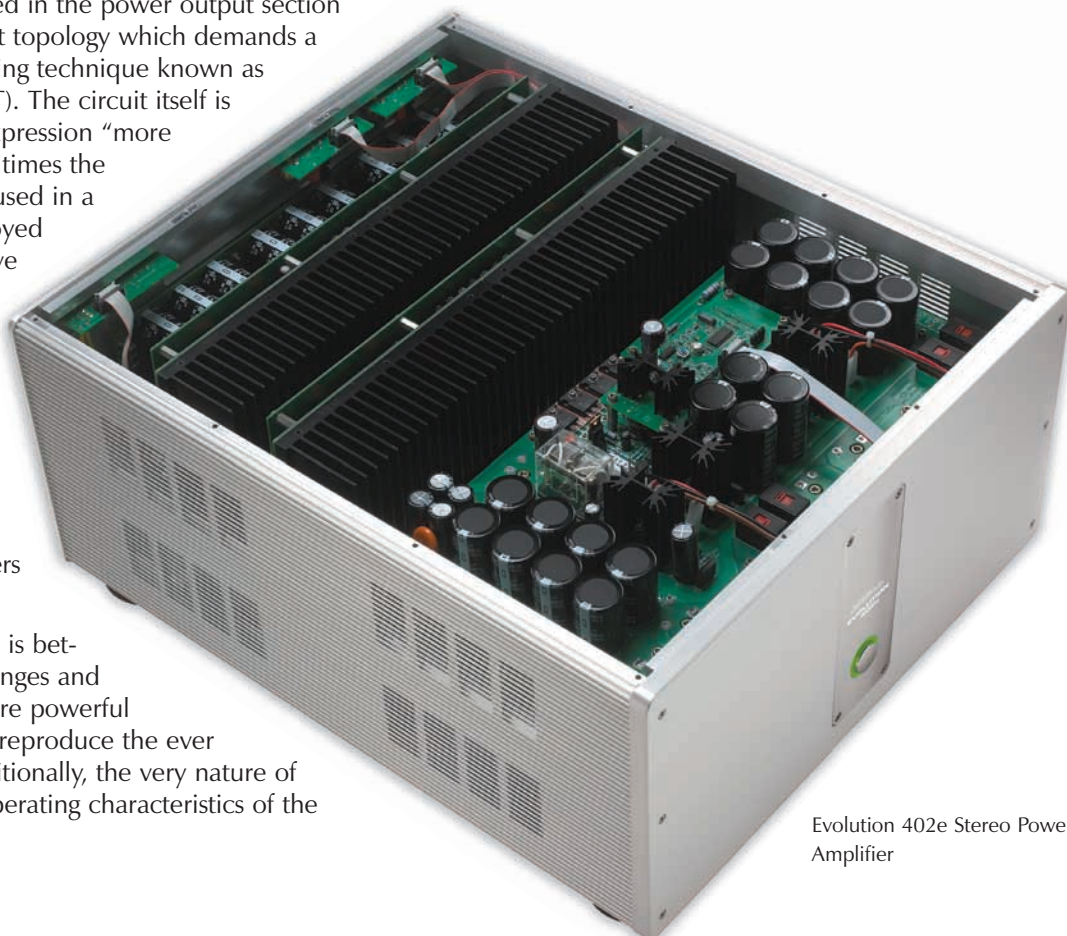
Evolution 900e Stereo Power Amplifier

Evolution e Series amplifiers exude uncompromised build quality with massive non-resonant chassis, solid alloy faceplates accentuated by striking diamond-cut center panels, huge binding posts, and military-grade circuit boards. The engineering story, however, goes much deeper. These inspired amplifiers, represent a new platform — showcasing innovative, breakthrough technologies that deliver virtually unlimited power and unprecedented refinement in audio reproduction. The Evolution e Series excels in each of these areas, delivering involvement at all volume levels, a “visual” presentation within the speakers, and awe inspiring dynamic power.

A new high speed transistor used in the power output section is configured in a unique circuit topology which demands a more sophisticated manufacturing technique known as surface mount technology (SMT). The circuit itself is an ingenious example of the expression “more hands make light work.” Three times the number of transistors typically used in a conventional amplifier is employed in an intricate array called Active Cascode Topology™. Each device works a fraction of a normal workload and thus effortlessly performs its job

To properly recreate dynamic content of real music, a large power source is required. One that can handle the varying demands the music and speakers will place upon it.

As a car with more horsepower is better equipped to handle the changes and demands of a given road, a more powerful amplifier is better equipped to reproduce the ever changing quality of music. Additionally, the very nature of reproducing music alters the operating characteristics of the speaker itself.



Evolution 402e Stereo Power Amplifier





**Evolution 402e**  
Stereo Power Amplifier



Evolution e Series amplifiers start with massive power supplies. These are the engines of an amplifier and are custom designed for each Evolution e Series amplifier. The most powerful model, the Evolution 900e, includes a striking 6,000 watt power supply. This figure is akin to a engine with a very high horsepower rating specification. As in a car, where the full horsepower capability is not tapped continuously, a high powered amplifier is ready when it is time to “step on the gas”. The visceral feeling enjoyed from a high horsepower car is the same that occurs when listening to music or viewing a movie with a powerful amplifier based system.

The Evolution e Series consists of models of different channel configurations and power outputs for various system applications. Ultimate performance is realized by dedicating one monaural amplifier per speaker. Only required to power a single speaker, it is easy to understand why this is the preferred configuration. Additional Evolution e Series models include two channel and three channel options. A new eco-friendly mode reduces standby power draw dramatically. Standby power draw has been reduced of over 99.5% from the previous amplifier generation.



**Evolution 403e Three-Channel Power Amplifier**

Boasting technology sourced from their award winning larger siblings, the Evolution 2250e and Evolution 3250e provide the immense power and refined performance that are the hallmarks of every Krell amplifier. Sharing the same advanced high speed output devices, massive power supplies, and unique Krell Current Mode circuitry, the Evolution 2250e and Evolution 3250e deliver performance that was previously reserved for products costing far more.

Featuring a 2,500 VA power transformer the Evolution 2250e and Evolution 3250e are powerhouses. Power output of 250 W per channel into 8 ohms and 500 W per channel into 4 ohms will drive any loudspeaker to its full dynamic capability. An additional transformer for control and protection circuitry also provides power for a new energy efficient standby mode.

Housed in elegant silver or black brushed anodized aluminum, the Evolution 2250e and Evolution 3250e are the smallest amplifiers in the Evolution e Series. Featuring a 7" high profile, the new amplifiers bring prodigious power to applications requiring smaller amplifiers without sacrificing sonic performance. The stylish Aluminum faceplate features the blue power ring and low draw standby mode shared by all Evolution e Series amplifiers.

**Evolution 3250e Three channel Power Amplifier**



**Evolution 2250e Stereo Power Amplifier**



**Evolution 302e Stereo**



Coupling legendary KRELL preamplifier technology, state of the art digital processing, and the latest in surround formats including HDMI 1.4 compatibility, the Evolution 707 3D is an uncompromising centerpiece for a reference music and home theater system. Housed in a chassis normally reserved for Krell amplifiers, each critical sub circuit is given unrestricted space for maximum circuit sophistication. Designed to take full advantage of the lossless Dolby

A detailed view of the internal components of a laptop. The motherboard is green and populated with various electronic components, including capacitors, resistors, and integrated circuits. Two RAM modules are visible, secured with screws. A large black heat sink is positioned over the central processing unit. A white ribbon cable is connected to a component on the left. The laptop's chassis is black, and the overall layout is compact and organized.

Included with the Evolution 707 is a sensitive calibration microphone that gathers information from the listening environment. ARES or Automatic Room Equalization System, is a powerful internal Krell software program that analyzes the microphone data and suggests a set of calibrations for optimal performance. For the future, the Evolution 707 3D software based core is readily updateable via a standard RS-232 computer connection if operating or performance improvements become available.

## Phantom Stereo Preamplifier

Often overlooked, the preamplifier is a critical component in the signal chain. A small signal must be carefully amplified without damaging the delicate staging and dimensional components of the music. The Phantom Preamplifier, using a combination of advanced technologies and skillful design, elevate this task to an art form. Music emanates from an expanse that outlines the recording venue, transporting you to the moment of creation. With the Phantom Preamplifier, musicians appear, silhouetted by the air



Phantom Stereo Preamplifier

about them, filling the room with a mesmerizing depiction of the recording. The experience is engaging, captivating, and entrancing.

The Phantom preamplifier is the first Krell preamplifier to include an optional crossover. The crossover functionality offers the ability to use a subwoofer/satellite speaker arrangement and still maintain the highest quality sonic performance.

Previous to the Phantom preamplifier, this system configuration would require signals to pass through a subwoofer's lower quality crossover

circuitry.

Owing to Krell's work in the Modulari Duo Reference loudspeaker, the unique crossover feature is a highly sophisticated option. When the optional crossover board is installed, additional crossover menu items become available to balance subwoofer and satellite speakers properly. Definable parameters include independently assignable crossover frequencies and filter types for the high and low pass sections. The high pass section of the crossover uses the full Phantom preamplifier circuitry for its output stage.



The Phantom preamplifier is a dual monaural circuit design with the left and right channels afforded their own power supplies and individual full chassis sized boards. All signal gain is achieved with surface mount topology using proprietary circuitry with nearly 500 times the accuracy of other designs. A common shortcut in standard designs, negative feedback, is not used anywhere in the preamp, nor is it necessary. Distortion is vanishingly low. As a result high frequencies sound especially smooth and extended, and music seems to emerge from "jet black" silence.

The Phantom audio circuits receive power from a Krell Current Mode analog power supply housed in its own dedicated chassis. The power supply avoids the common integrated circuit topology used in many

Preamplifier and instead mimics the design topology of Krell Evolution e Series amplifiers.

Oversized for a preamplifier, the power supply responds quickly to musical demands and is

unaffected by all but the most severe AC voltage

power fluctuations. Capable of delivering current and voltage swing for any musi-

cal event, the Phantom power supply is gentle on AC requirements when not in use. A new eco-friendly design reduces standby power draw to 2W.



Phantom II Stereo Preamplifier

The Phantom II incorporates the advanced technologies, less the optional crossover, and brilliant design of the Phantom preamplifier into a single chassis format. It is a perfect choice for systems that are of a smaller scale.



## Cipher SACD/CD Player

Featuring an advanced disc drive and coupled to the latest Krell digital and analog output circuitry, the Krell Cipher delivers the ultimate performance from today's highest resolution source material. Every performance enhancement is incorporated to retrieve the most accurate signal from SACD and CD music titles. Isolated mechanically from the



underlying chassis, the drive mechanism utilizes composite mounts to minimize vibration induced errors. Special sound dampening material is strategically placed inside the unit to minimize mechanical resonances even further. Krell customized disc drive firmware enhances reading accuracy, drive mechanics, and operational parameters. As an ultimate final step, the separate SACD and CD laser heads are individually calibrated by hand for the precise output levels required for reference quality SACD and CD playback.

All signals are fed into the latest digital conversion technology including a Krell designed module that reduces timing based errors to a virtually immeasurable level.

Conventional players use one digital-to-analog converter (DAC) for both channels and convert the current output of the DACs to voltage, a process that invariably causes signal distortion. Instead, the Cipher uses one DAC per channel and feeds the native balanced current output directly to Krell Current Mode circuitry. Removing the typical current-to-voltage stage found in conventional players eliminates distortions associated with this conversion. This lowers distortion and improves sound quality to its maximum level.

The backbone of all audio components is the power supply which is often minimized in lesser players. The Cipher includes independent power supplies for the drive mechanism, digital, and analog sections to maintain signal isolation between these circuit areas. The Cipher's linear power supply is sourced directly from the designs used in Krell Evolution e Series amplifiers. A custom-wound toroidal power transformer, 10 times larger than those found in typical players, provides tremendous current reserves and assures low-noise analog stage operation.

## Krell CAST™

Current Audio Signal Transmission, termed CAST, is a revolutionary method of connecting analog audio components for unparalleled sonic performance.

In traditional audio systems, each component is a discrete entity with unique characteristics that act upon the musical signal independently. Each component is unaware of the other components in the system. The cables that connect the components also have their own electrical characteristics, which affect the sonic presentation of the entire system. Krell CAST™ (Current Audio Signal Transmission) unifies individual components and interconnects them into an electrically linked whole. The original signal remains unaltered from source to speaker. Still equipped with standard connections for use with other components, the full expression of Krell technology is realized when the system is connected using Krell CAST MMF interconnects.



Krell CAST connected systems offer significant improvements in every performance area: speed, precision, dynamic range, depth and width of the sound stage, transient impact, and tonal balance.



## Modulari Duo Reference Loudspeaker

Striking in appearance and unique in its approach, the Modulari Duo Reference delivers on seemingly mutually exclusive goals - full-range performance with deep bass and startling dynamics realized in a design of modest scale and dimensions. Independent of its size, the Modulari Duo Reference delivers reference caliber performance through its combination of superior materials, amplifier grade crossover circuitry, and exceptional engineering. The Modulari Duo Reference is for those music and movie lovers that demand ultimate performance but also prize aesthetic beauty.

The Modulari Duo Reference combines a Modulari subwoofer tower with the Modulari Primo two-way minispeaker. Because the 260-pound subwoofer tower and the 85-pound Primo are crafted out of solid aluminum slabs ranging from 1/2 inch to 1 inch in thickness, they are free of the sonic resonances that plague enclosures made from wood or MDF.

This ultra-rigid, high-mass construction allows the compact subwoofer cabinet to handle the vibration and pressure generated by its three 8-inch, custom-designed ScanSpeak woofers. Each of these woofers has a maximum excursion of 1 inch, displacing enough air to reproduce bass notes down to 27 Hz. Thus, the Modulari Duo Reference can reproduce every single note on an 88-key grand piano - even the 27.5 Hz low A - flawlessly.



The modular construction isolates the Primo's 1-inch ScanSpeak ring-radiator tweeter and 7-inch ScanSpeak woofer from the intense energy generated within the subwoofer tower. For home theater installations, additional Primos may be purchased separately to use as center and surround speakers.

The speaker is available in silver aluminum finish or anodized black finish.

# Specifications

## Evolution 900e Monaural Power Amplifier



**Frequency response:**  
20 Hz to 20 kHz +0, -0.18 dB  
<0.5 Hz to 120 kHz +0, -3 dB

**Signal-to-noise ratio:**  
>113 dB, wideband, unweighted,  
referred to full power output  
>122 dB, "A"-weighted

**Gain:** 25.4 dB

**Total harmonic distortion:**  
<0.02% at 1 kHz, at 900 W, 8  $\Omega$   
<0.15% at 20 kHz, at 900 W, 8  $\Omega$

**Input impedance:**  
CAST: 70  $\Omega$ ; Balanced: 200 k $\Omega$ ;  
Single-ended: 100 k $\Omega$

**Input sensitivity:**  
CAST: 4.55 mA RMS;  
Balanced or single-ended: 4.55 V RMS

**Output power:**  
900 W at 8  $\Omega$ ; 1800 W at 4  $\Omega$ ;  
3600 W at 2  $\Omega$

**Output voltage:** 240 V peak-to-peak; 85 V RMS

**Output current:** 60 A peak

**Slew rate:** 90 V/ $\mu$ s

**Output impedance:** <0.023  $\Omega$ , 20 Hz to 20 kHz

**Damping factor (referred to 8  $\Omega$ ):** >350, 20 Hz to 20 kHz

**Power consumption: Standby:** 2 W; High current  
Standby: 440W; Idle: 650 W; Maximum: 5000W

**Heat output: Standby:** 7 BTU/hr.; High current  
Standby: 1500 BTU/hr.; Idle: 2200 BTU/hr.;  
Maximum: 7700 BTU/hr.

**Inputs:** 1 CAST via 4-pin bayonet connector  
1 balanced via XLR connector  
1 single-ended via RCA connector

**Outputs:** 1 pair Krell binding posts

**Dimensions (WxHxD):** 17.3 x 9.8 x 26.1 in.  
438 x 248 x 662 mm

**Weight:** 175 lb., 79.2 kg (unit only)  
190 lb., 86 kg (as shipped)

## Evolution 600e Monaural Power Amplifier



**Frequency response:**  
20 Hz to 20 kHz +0, -0.18 dB  
<0.5 Hz to 120 kHz +0, -3 dB

**Signal-to-noise ratio:**  
>110 dB, wideband, unweighted,  
referred to full power output  
>119 dB, "A"-weighted

**Gain:** 25.4 dB

**Total harmonic distortion:**  
<0.02% at 1 kHz, at 600 W, 8  $\Omega$   
<0.15% at 20 kHz, at 600 W, 8  $\Omega$

**Input impedance: CAST:** 70  $\Omega$ ; Balanced: 200 k $\Omega$ ;  
Single-ended: 100 k $\Omega$

**Input sensitivity: CAST:** 3.72 mA RMS;  
Balanced or single-ended: 3.72 V RMS

**Output power:** 600 W at 8  $\Omega$ ; 1200 W at 4  $\Omega$ ;  
2400 W at 2  $\Omega$

**Output voltage:** 196 V peak-to-peak; 69 V RMS

**Output current:** 49 A peak

**Slew rate:** 100 V/ $\mu$ s

**Output impedance:** <0.030  $\Omega$ , 20 Hz to 20 kHz

**Damping factor (referred to 8  $\Omega$ ):** >270, 20 Hz to 20 kHz

**Power consumption: Standby:** 2W; High current  
Standby: 260 W; Idle: 410 W; Maximum: 3800W

**Heat output: Standby:** 787U/hr.; High current Standby:  
890 BTU/hr.; Idle: 1400 BTU/hr.;  
Maximum: 5500 BTU/hr.

**Inputs:** 1 CAST via 4-pin bayonet connector  
1 balanced via XLR connector  
1 single-ended via RCA connector

**Outputs:** 1 pair Krell binding posts

**Dimensions (WxHxD):**  
17.3 x 9.8 x 22.1 in.  
438 x 248 x 560 mm

**Weight:** 135 lb., 61.1 kg (unit only)  
150 lb., 67.9 kg (as shipped)

## Evolution 402e Stereo Power Amplifier



**Frequency response:**  
20 Hz to 20 kHz +0, -0.18 dB  
<0.5 Hz to 120 kHz +0, -3 dB

**Signal-to-noise ratio:**  
>106 dB, wideband, unweighted,  
referred to full power output  
>116 dB, "A"-weighted

**Gain:** 25.4 dB

**Total harmonic distortion:**  
<0.02% at 1 kHz, at 400 W, 8  $\Omega$   
<0.15% at 20 kHz, at 400 W, 8  $\Omega$

**Input impedance: CAST:** 70  $\Omega$ ; Balanced: 200 k $\Omega$ ;  
Single-ended: 100 k $\Omega$

**Input sensitivity: CAST:** 3.04 mA RMS;  
Balanced or single-ended: 3.04 V RMS

**Output power (per channel, all channels driven):**  
400 W at 8  $\Omega$ ; 800 W at 4  $\Omega$

**Output voltage:** 160 V peak-to-peak; 57 V RMS

**Output current:** 37 A peak    Slew rate: 100 V/ $\mu$ s

**Output impedance:** <0.055  $\Omega$  at 20 Hz;  
<0.064  $\Omega$ , 20 Hz to 20 kHz

**Damping factor (referred to 8  $\Omega$ ):** >145 at 20 Hz;  
>125, 20 Hz to 20 kHz

**Power consumption: Standby:** 2W; High current  
Standby: 260 W; Idle: 390 W; Maximum: 3800W

**Heat output: Standby:** 787U/hr.; High current Standby:  
890 BTU/hr.; Idle: 1300 BTU/hr.; Maximum:  
6400 BTU/hr.

**Inputs:** 2 CAST via 4-pin bayonet connectors  
2 balanced via XLR connectors  
2 single-ended via RCA connectors

**Outputs:** 2 pairs Krell binding posts

**Dimensions (WxHxD):** 17.3 x 9.8 x 22.1 in.  
438 x 248 x 560 mm

**Weight:** 135 lb., 61.1 kg (unit only)  
150 lb., 67.9 kg (as shipped)

## Evolution 403e Three-Channel Power Amplifier



**Frequency Response:**  
20 Hz to 20 kHz +0, -0.18 dB  
<0.5 Hz to 120 kHz +0, -3 dB

**Signal-to-noise ratio:**  
>106 dB, wideband, unweighted,  
referred to full power output  
>116 dB, "A"-weighted

**Gain:** 25.4 dB

**Total harmonic distortion:**  
<0.02% at 1 kHz, at 400 W, 8  $\Omega$   
<0.15% at 20 kHz, at 400 W, 8  $\Omega$

**Input impedance: CAST:** 70  $\Omega$ ; Balanced: 200 k $\Omega$ ;  
Single-ended: 100 k $\Omega$

**Input sensitivity: CAST:** 3.04 mA RMS;  
Balanced or single-ended: 3.04 V RMS

**Output power (per channel, all channels driven):**  
400 W at 8  $\Omega$ ; 800 W at 4  $\Omega$

**Output voltage:** 160 V peak-to-peak; 57 V RMS

**Output current:** 37 A peak    Slew rate: 100 V/ $\mu$ s

**Output impedance:** <0.055  $\Omega$  at 20 Hz;  
<0.064  $\Omega$ , 20 Hz to 20 kHz

**Damping factor (referred to 8  $\Omega$ ):** >145 at 20 Hz;  
>125, 20 Hz to 20 kHz

**Power consumption: Standby:** 2W; High current  
Standby: 370 W; Idle: 570 W; Maximum:  
5000W

**Heat output: Standby:** 787U/hr.; High current  
Standby: 1270 BTU/hr.; Idle: 1950 BTU/hr.;  
Maximum: 7700 BTU/hr.

**Inputs:** 3 CAST via 4-pin bayonet connectors  
3 balanced via XLR connectors  
3 single-ended via RCA connectors

**Outputs:** 3 pairs Krell binding posts

**Dimensions (WxHxD):** 17.3 x 9.8 x 26.1 in.  
438 x 248 x 662 mm

**Weight:** 175 lb., 79.2 kg (unit only)  
190 lb., 86 kg (as shipped)

## Cipher SACD/CD Player



**Frequency response:**  
20 Hz to 20 kHz +0, -0.25 dB

**Signal-to-noise ratio:**  
>112 dB, "A"-weighted

**Total harmonic distortion:**  
<0.005% dB, 20 Hz to 20 kHz

**Power consumption:** 61 W

**Analog audio outputs:**  
1 pair CAST via 4-pin bayonet connectors  
1 pair balanced via XLR connectors  
6 single-ended via RCA connectors

**Digital audio outputs:**  
1 S/PDIF via RCA connector  
1 EIAJ optical via Toslink connector

**Remote control:**  
1 wireless IR remote  
1 remote IR sensor input via 3-cond. 3.5mm  
conn.

**Control inputs/outputs:**  
1 RS-232 bi-directional interface  
1 ea. 12 VDC trigger in/out via 3.5mm  
connector  
1 ea. Krell CAN link in/out via RJ-45  
connector

**Dimensions (WxHxD):**  
17.3 x 6.0 x 17.3 in.  
438 x 153 x 438 mm

**Weight:**  
29 lb., 13.2 kg (unit only)  
37 lb., 16.8 kg (as shipped)

## Phantom Stereo Preamplifier



**Frequency response:**  
20 Hz to 20 kHz  $\pm$ 0.02 dB  
0.35 Hz to 720 KHz +0, -3 dB

**Signal-to-noise ratio (ref. 4 mA RMS CAST or 4 V RMS balanced output):** >100 dB, wideband,  
unweighted; >109 dB, "A"-weighted

**Gain:** 12 dB (CAST or balanced output);  
6 dB (single-ended output)

**Total harmonic distortion plus noise (ref. 4 mA RMS CAST or 4 V RMS balanced output):**  
<0.003%, 20 Hz to 20 kHz

**Input impedance: CAST:** 25  $\Omega$ ; Balanced: 40 k $\Omega$ ;  
Single-ended: 20 k $\Omega$

**Output impedance: CAST:** >1 M  $\Omega$ ; Balanced: 250  
 $\Omega$ ; Single-ended: 125  $\Omega$

**Input overload:** CAST: 12 mA RMS;  
Balanced: 10 V RMS; Single-ended: 6.5 V RMS

**Output overload:** CAST: 16 mA RMS;  
Balanced: 16 V RMS; Single-ended: 8 V RMS

**Volume control:** Balanced, current mode,  
16-bit, discrete R-2R ladder

**Inputs:** 2 pairs CAST via 4-pin bayonet connectors  
2 pairs balanced via XLR connectors  
3 pairs single-ended via RCA connectors

**Tape input:** 1 pair single-ended via RCA connectors  
Main outputs: 2 pairs CAST via 4-pin bayonet  
conn.  
1 pair balanced via XLR connectors  
1 pair single-ended via RCA connectors

**Tape output:** 1 pair single-ended via RCA conn.,  
buffered

## Phantom (continued)

**Control inputs/outputs:**  
1 RS-232 in via 9-pin D-sub connector  
1 remote IR detector in via 3-conductor 3.5mm  
connector  
1 12 VDC trigger in via 2-conductor 3.5mm  
connector  
1 ea. Krell CAN link in/out via RJ-45 connector  
2 programmable 12 VDC trigger out via  
2-conductor 3.5mm connector

**DC power output:** 1 phono power output ( $\pm$ 20 VDC)  
via 9-pin D-sub connector for KPE

**Power consumption:**  
Standby: 60 W; Power on: 65 W;  
Power on w/KPE: 75 W

**Dimensions (WxHxD):**  
**Preamplifier only:**  
17.3 x 3.8 x 18.3 in.  
438 x 97 x 464 mm  
**Power supply only:**  
17.3 x 3.8 x 17.7 in.  
438 x 97 x 448 mm  
**Units together:**  
17.3 x 7.6 x 18.3 in.  
438 x 192 x 464 mm

**Weight:** 18 lb., 8.1 kg (preamplifier only)  
28 lb., 12.7 kg (power supply only)

## Phantom II Stereo Preamplifier



Same as for Phantom except as follows:

**Signal-to-noise ratio (ref. 4 mA RMS CAST or 4 V RMS balanced output):** >100 dB, wideband,  
unweighted; >109 dB, "A"-weighted

**Power consumption:**  
Standby: 45 W; Power on: 70 W;  
Power on w/KPE: 80 W

**Dimensions (WxHxD):**  
17.3 x 3.8 x 18.3 in.  
438 x 97 x 464 mm

**Weight:** 22 lb., 10.0 kg (unit only)  
37 lb., 16.7 kg (as shipped)

All operational features, functions, specifications, and policies are subject to change without notice.

All specified power amplifier output ratings are true continuous sine wave measurements, calculated from observed RMS voltage into the specified resistive loads. These ratings are comparable to what most manufacturers refer to as "RMS watts" or "RMS power."



# Specifications

## Evolution 400e Monaural Power Amplifier



**Frequency response:**  
20 Hz to 20 kHz +0, -0.18 dB  
<0.5 Hz to 120 kHz +0, -3 dB

**Signal-to-noise ratio:**  
>108 dB, wideband, unweighted,  
referred to full power output  
>118 dB, "A"-weighted

**Gain:** 25.4 dB

**Total harmonic distortion:**  
<0.02% at 1 kHz, at 400 W, 8  $\Omega$   
<0.15% at 20 kHz, at 400 W, 8  $\Omega$

**Input impedance:** CAST: 70  $\Omega$ ; Balanced: 200 k $\Omega$ ;  
Single-ended: 100 k $\Omega$

**Input sensitivity:** CAST: 3.04 mA RMS;  
Balanced or single-ended: 3.04 V RMS

**Output power:** 400 W at 8  $\Omega$ ; 800 W at 4  $\Omega$

**Output voltage:** 160 V peak-to-peak; 57 V RMS

**Output current:** 37 A peak

**Slew rate:** 100 V/ $\mu$ s

**Output impedance:** <0.064  $\Omega$ , 20 Hz to 20 kHz

**Damping factor (referred to 8  $\Omega$ ):** >125, 20 Hz to 20 kHz

**Power consumption:** Standby: 2W; High current  
Standby: 150 W; Idle: 210 W; Maximum: 2500W

**Heat output:** Standby: 7BTU/hr.; High current  
Standby: 510 BTU/hr.; Idle: 720 BTU/hr.;  
Maximum: 3800 BTU/hr.

**Inputs:** 1 CAST via 4-pin bayonet connector  
1 balanced via XLR connector  
1 single-ended via RCA connector

**Outputs:** 1 pair Krell binding posts

**Dimensions (WxHxD):**  
14.50 x 9.75 x 20.65 in.  
368 x 248 x 525 mm

**Weight:** 102 lb., 46.2 kg (unit only)  
120 lb., 54.3 kg (as shipped)

## Evolution 302e Stereo Power Amplifier



**Frequency response:**  
20 Hz to 20 kHz +0, -0.18 dB  
<0.5 Hz to 120 kHz +0, -3 dB

**Signal-to-noise ratio:**  
>107 dB, wideband, unweighted,  
referred to full power output  
>117 dB, "A"-weighted

**Gain:** 25.5 dB

**Total harmonic distortion:**  
<0.02% at 1 kHz, at 300 W, 8  $\Omega$   
<0.15% at 20 kHz, at 300 W, 8  $\Omega$

**Input impedance:** CAST: 70  $\Omega$ ; Balanced: 200 k $\Omega$ ;  
Single-ended: 100 k $\Omega$

**Input sensitivity:** CAST: 2.60 mA RMS;  
Balanced or single-ended: 2.60V RMS

**Output power:** 300 W at 8  $\Omega$ ; 600 W at 4  $\Omega$ ;  
1200 W at 2  $\Omega$

**Output voltage:** 139 V peak-to-peak; 49 V RMS

**Output current:** 35 A peak

**Slew rate:** 120 V/ $\mu$ s

**Output impedance:** <0.053  $\Omega$ , 20 Hz to 20 kHz

**Damping factor (referred to 8  $\Omega$ ):** >150, 20 Hz to 20 kHz

**Power consumption:** Standby: 2W; High current  
Standby: 150 W; Idle: 320 W; Maximum: 3400W

**Heat output:** Standby: 7BTU/hr.; High current  
Standby: 510 BTU/hr.; Idle: 1100 BTU/hr.;  
Maximum: 5500 BTU/hr.

**Inputs:** 2 CAST via 4-pin bayonet connector  
2 balanced via XLR connector  
2 single-ended via RCA connector

**Outputs:** 2 pair Krell binding posts

**Dimensions (WxHxD):**  
17.3 x 9.8 x 20.7 in.  
438 x 248 x 525 mm

**Weight:** 120 lb., 54.3 kg (unit only)  
138 lb., 62.4 kg (as shipped)

## Evolution 2250e Stereo Power Amplifier



**Frequency response:**  
20 Hz to 20 kHz +0, -0.07 dB  
<0.3 Hz to 150 kHz +0, -3 dB

**Signal-to-noise ratio:**  
>116 dB, "A"-weighted

**Gain:** 25.7 dB

**Total harmonic distortion:**  
<0.02% at 1 kHz, at 250 W, 8  $\Omega$   
<0.15% at 20 kHz, at 250 W, 8  $\Omega$

**Input impedance:** Balanced: 100 k $\Omega$ ;  
Single-ended: 50 k $\Omega$

**Input sensitivity:**  
Balanced or single-ended: 2.32 VRMS

**Output power (per channel, all channels driven):**  
250 W at 8  $\Omega$ ; 500 W at 4  $\Omega$

**Output voltage:** 133 V peak-to-peak; 47 V RMS

**Output current:** 20 A peak

**Slew rate:** 80 V/ $\mu$ s

**Output impedance:** <0.060  $\Omega$  at 20 Hz;  
<0.067  $\Omega$ , 20 Hz to 20 kHz

**Damping factor (referred to 8  $\Omega$ ):** >130 at 20 Hz;  
>120, 20 Hz to 20 kHz

**Power consumption:** Standby: 2W; High current  
Standby: 40 W; Idle: 80 W; Maximum: 2400W

**Heat output:** Standby: 7BTU/hr.; High current  
Standby: 140 BTU/hr.; Idle: 310 BTU/hr.;  
Maximum: 3100 BTU/hr.

**Inputs:** 2 balanced via XLR connectors  
2 single-ended via RCA connectors

**Outputs:** 2 pairs Krell binding posts

**Dimensions (WxHxD):** 17.25 x 7.6 x 19.13 in.  
438 x 193 x 486 mm

**Weight:** 77 lb., 34.8 kg (unit only)  
92 lb., 41.6 kg (as shipped)

## Evolution 3250e Three-Channel Power Amplifier



**Frequency response:**  
20 Hz to 20 kHz +0, -0.07 dB  
<0.3 Hz to 150 kHz +0, -3 dB

**Signal-to-noise ratio:**  
>116 dB, "A"-weighted

**Gain:** 25.7 dB

**Total harmonic distortion:**  
<0.02% at 1 kHz, at 250 W, 8  $\Omega$   
<0.15% at 20 kHz, at 250 W, 8  $\Omega$

**Input impedance:** Balanced: 100 k $\Omega$ ;  
Single-ended: 50 k $\Omega$

**Input sensitivity:**  
Balanced or single-ended: 2.32 VRMS

**Output power (per channel, all channels driven):**  
250 W at 8  $\Omega$ ; 500 W at 4  $\Omega$

**Output voltage:** 133 V peak-to-peak; 47 V RMS

**Output current:** 20 A peak

**Slew rate:** 80 V/ $\mu$ s

**Output impedance:** <0.060  $\Omega$  at 20 Hz;  
<0.067  $\Omega$ , 20 Hz to 20 kHz

**Damping factor (referred to 8  $\Omega$ ):** >130 at 20 Hz;  
>120, 20 Hz to 20 kHz

**Power consumption:** Standby: 2W; High current  
Standby: 50 W; Idle: 125 W; Maximum: 2400W

**Heat output:** Standby: 7BTU/hr.; High current  
Standby: 170 BTU/hr.; Idle: 430 BTU/hr.;  
Maximum: 3100 BTU/hr.

**Inputs:** 3 balanced via XLR connectors  
3 single-ended via RCA connectors

**Outputs:** 3 pairs Krell binding posts

**Dimensions (WxHxD):** 17.25 x 7.6 x 19.13 in.  
438 x 193 x 486 mm

**Weight:** 80 lb., 36.2 kg (unit only)  
95 lb., 43.0 kg (as shipped)

## Evolution 707 3D Surround Processor



**Analog audio inputs:**  
2 pair CAST via 4-pin bayonet connectors  
1 pair balanced via XLR connectors  
5 single-ended via RCA connectors  
1 Discrete 7.1 via RCA connector  
1 Tape in via RCA connector  
1 VCR audio in via RCA connector

**Digital audio inputs:**  
4 HDMI via HDMI connectors  
4 EIAJ optical via Toslink connectors  
4 Coaxial via RCA connectors

**Digital Video inputs:**  
4 HDMI via HDMI connector

**Digital Video outputs:**  
4 HDMI via HDMI connector

**Analog Video inputs:**  
3 Component Video via RCA connectors  
4 S-video via DIN connectors  
3 Composite Video via RCA connectors

**Analog audio outputs:**  
12 pair CAST via 4-pin bayonet connectors  
12 pair balanced via XLR connectors  
12 single-ended via RCA connectors  
1 Zone 2 via RCA connector  
1 Tape in via RCA connector  
1 VCR audio in via RCA connector

**Digital audio outputs:**  
1 EIAJ optical via Toslink connectors  
1 Coaxial via RCA connectors

## Evolution 707 3D (continued)

**Digital Video outputs:**  
4 HDMI via HDMI connector

**Digital Video outputs:**  
1 HDMI via HDMI connector

**Analog Video outputs:**  
2 Component Video via RCA connectors  
2 S-video via DIN connectors  
2 Composite Video via RCA connectors

**Dimensions:**  
17.25 x 8.75 x 21.22 in.  
43.82x 22.23 x 53.90 cm

**Weight:**  
52 lb., 23.59 kg (unit only)  
64 lb., 29.03 kg (as shipped)

## Modulari Duo Reference Loudspeaker



**Woofer drivers:**  
Three ScanSpeak 8" [210 mm] with thick alu  
minum cones and butyl rubber surrounds in  
vented enclosure

**Mid-bass driver:**  
ScanSpeak 7" [180 mm] with aluminum  
cone and butyl rubber surround in sealed  
enclosure

**Tweeter:**  
ScanSpeak 1" [25mm] ring tweeter

**Woofer Crossover filters:**  
Modified second-order (12 dB/octave)  
Butterworth, 200 Hz

**Mid-bass Crossover filters:**  
Modified third-order (18 dB/octave)  
Butterworth, 2500 Hz

**Woofer Low Frequency response:**  
-3 dB at 27 Hz

**Mid-bass Low Frequency response:**  
-3 dB at 48 Hz

**Woofer Dimensions:**  
11.54"W x 29.02"H x 22.08"D in.  
293mm W x 561mm H x 561 mm D

**Mid-bass Dimensions:**  
10.04"W x 14.52"H x 11.59"D in.  
255mm W x 369mm H x 294 mm D

**Woofer Weight:**  
260 lb., 118kg (unit only)

**Mid-bass Weight:**  
85 lb., 38.5kg (unit only)



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