

Connecting the Illusion II to Your System

Krell recommends using balanced interconnect cables. Balanced interconnect cables not only can minimize sonic loss but are also immune to induced noise, especially with installations using long cables. Balanced connections have 6 dB more gain than single-ended connections. When level matching is critical, keep this gain value in mind.

Position the preamplifier where you intend to use it in your system.

1. Neatly arrange and organize wiring to and from the preamplifier and all components. Separate the AC wires from any audio cables to prevent hum or other unwanted noise from being introduced into the system.
2. Connect the outputs of your source equipment to the appropriate balanced (11), or single-ended inputs (12) on the Illusion II.
3. Connect the main outputs (13) on the Illusion II to your amplifier's inputs.
4. Connect the supplied AC power cord to the IEC power cord receptacle (17) of the preamplifier.
5. Plug the other end of the AC power cord into AC power and turn on the rear power switch. The display (3) shows Illusion II SOFTWARE VERSION, and the stand-by/power indicator (4) illuminates red, indicating that the Illusion II is in stand-by mode. When the display shuts off, the Illusion II is ready to be powered on.

Note

Use only the power cord provided with the Illusion II to make the connection to AC power. Operation with a power cord other than the one supplied by Krell can induce noise, limit current, or otherwise impair the ability of the preamplifier to perform optimally.

Operating the Illusion II

After the Illusion II is connected to your system and to AC power you may begin operation:

1. Press the power button (1) on the front panel, or the remote control power key. The standby/power indicator turns blue. The display shows the factory default input: S-1, and level: 000. The Illusion II is now in the operational mode.
2. With the preamplifier output muted, or the volume fully attenuated, select a source manually using the front panel input select buttons (5 or 6) or the remote input select keys. Start playing the source. Use the level buttons (10) or the remote level keys to set the volume to a comfortable level.
3. To return the preamplifier to the stand-by mode, press the power button (1) or remote power key. (We recommend leaving the Illusion II in the stand-by mode when it is not playing music.)

Channel Balance Adjustment

The balance function allows adjustment of the left and right balance. The options are: CENTER, L .5-5 dB <, R .5-5 dB >. The remote control has direct keys (D) to make these adjustments. For front panel adjustment follow the steps listed below.

1. Press the preamplifier menu button (9), then use the level control knob, or the remote control up and down keys to select: BALANCE.
2. Press the enter button (8) or remote enter key. The display shows the default mode: CENTER.
3. Use the level buttons, or the up and down keys, to select the desired balance option from 0 to +5 dB in .5 dB increments, left or right.
4. Press the enter button or key to confirm the selection. The display reads: BALANCE.
5. Press the menu button to exit the menu.



Illusion II Stereo Preamplifier

SETUP GUIDE

Getting Started

Thank you for your purchase of the Krell Illusion II Stereo Preamplifier. The Illusion II features Krell Current Mode circuit topologies, balanced technology, and a robust power supply for exceptional audio performance. The Illusion II preamplifier includes a digital input module and a headphone output. A thoughtful suite of menu options ensures that the Illusion II can be customized for the greatest ease of operation.

Overview

The preamplifier's front panel provides power, input selection, level control, menu functions, and status display. The rear panel allows connection to audio sources, power amplifiers, AC power, and other system components.

The remote control provides power, preamplifier, level control, navigation and customization functions, CD and DVD player controls and menu configuration.

Do not place the preamplifier where it could be exposed to dripping or splashing.

Do not remove or bypass the ground pin on the end of the AC cord. This may cause radio frequency interference (RFI) to be introduced into your playback system.

The ventilation slots on the top and bottom of the preamplifier must be unobstructed at all times during operation. Do not place flammable material on top of or beneath the component.

Turn off all systems' power before connecting the preamplifier to any component.

Make sure all cable terminations are of the highest quality, free from frayed ends, short circuits, or cold solder joints.

THERE ARE NO USER-SERVICEABLE PARTS INSIDE ANY KRELL PRODUCT

WARNINGS



This product complies with the EMC directive (89/336/EEC) and the low-voltage directive (73/23/EEC).

This CLASS 1 apparatus must be connected to a MAINS socket outlet with a protective earthing connection.

Unpacking

Note

Save all packing materials. If you need to ship the Illusion II in the future, repack the unit in its original packaging to prevent shipping damage.

1. Open the shipping box and remove the top layer of foam. You will see these items:

1 Preamplifier chassis	2 AAA remote batteries
1 IEC connector (AC power) cord	1 T-10 Torx wrench for remote
1 Remote control	1 Setup Guide

2. Carefully remove all items from the shipping box.
3. Place the preamplifier in a safe location and remove the protective plastic wrapping.

Placement

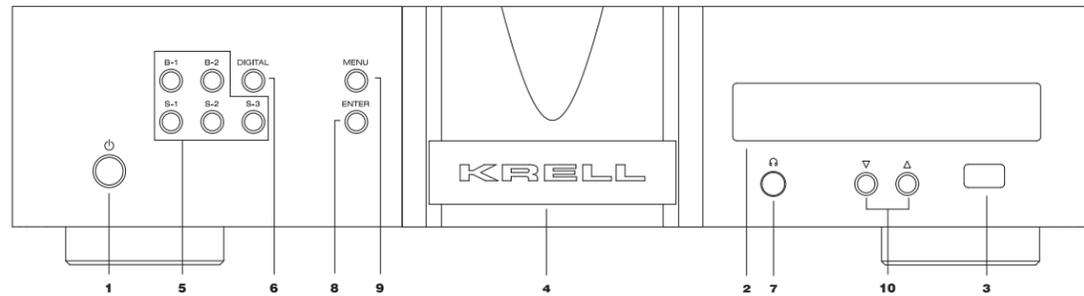
We recommend that you place the preamplifier on a firm, level surface, away from excessive heat, humidity, or moisture. The preamplifier requires at least two inches (5 cm) of clearance on each side and at least two inches (5 cm) of clearance above to provide adequate ventilation. Installations inside cabinetry may need extra ventilation.

AC POWER GUIDELINES

The Illusion II preamplifier has superb regulation and does not require a dedicated AC circuit. Avoid connections through extension cords or multiple AC adapters. High quality 15 amp AC strips are acceptable. The use of AC line conditioning devices is not recommended. The features provided by these devices are already on board the Illusion II.

MODEL **Illusion II Preamplifier** SERIAL NUMBER

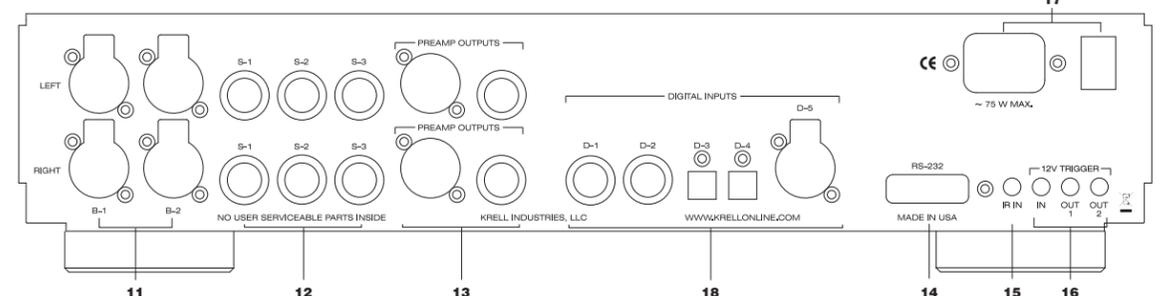
Figure 1 The Illusion II Front Panel



Front Panel

- 1 Power**
Use this to switch the preamplifier between stand-by and operational modes.
- 2 Display**
This provides channel status messages, including input selection, volume level, balance offset, and menu selections.
- 3 Infrared sensor**
This receives commands from the remote control. Make sure this is not obstructed.
- 4 Stand-by/Power indicator**
This power indicator illuminates red (stand-by) when the Illusion II is plugged into a standard AC wall receptacle and rear power switch is on. The power indicator illuminates blue (operational mode) when the power button (1) is pressed while the Illusion II is in stand-by mode.
- 5 Analog Input selectors**
Use these to select the corresponding rear panel input that is connected to a single-ended (S-1, S-2, S-3), or balanced (B-1, B-2) analog source. The display (2) shows the selected input and volume level. Pressing the input button on the active source will mute all outputs. A second press will unmute the outputs.
- 6 Digital Input selector**
Use this to select the D/A converter module. Pressing and holding the digital button will cycle through the additional digital inputs.
- 7 Headphone Jack**
1/4" stereo headphone jack. The main outputs are muted when headphones are being used.
- 8 Enter button**
Use this to configure the menu functions of the Illusion II. See menu (9).
- 9 Menu button**
Use this to access the menu functions of the Illusion II.
- 10 Level control buttons**
Use these buttons to increase or decrease system volume level. The level control buttons or keys also select menu options that customize the Illusion II.

Figure 3 The Illusion II Back Panel



Back Panel

- 11 Balanced inputs: B-1 and B-2**
These XLR balanced analog source input connectors are wired as follows:
Pin 1 Ground
Pin 2 Non-inverting
Pin 3 Inverting
- 12 Single-ended inputs: S-1, S-2, and S-3**
There are 3 single-ended analog source inputs with RCA connector pairs.
- 13 Main outputs**
The Illusion II is equipped with one balanced XLR output pair and one single-ended RCA output pair.
- 14 RS-232 port**
This port receives messages from a computer-based control system, providing integrated control of all preamplifier functions.
- 15 RC-5 in**
This remote connector is used with third-party remote control systems that provide RC-5 (IR) data via a wired connection. A stereo tip, ring, sleeve 1/8" mini connector is used in the following configuration:
Tip = RC-5 data
Ring = +5 V
Sleeve = GND.
- 16 12 VDC in/out (12 V trigger)**
There are 2 outputs and one input that send and receive 12 VDC power on/off (trigger) signals to and from other Krell components, and other devices that incorporate a 12 V trigger. This allows other components to be turned on/off, or to/from stand-by, through the remote control.
- 17 IEC power cord receptacle and power switch**
This is for use with the provided AC power cord. Plug the other end into an AC Mains supply capable of supplying the correct AC voltage and current for the power supply. This connector and power cord must remain unobstructed for easy removal in case of an emergency.
- 18 Digital inputs: D-1, D-2, D-3, D-4, and D-5**
There are 2 coaxial inputs using RCA connectors, 2 optical connectors using Toslink connectors, and 1 AES/EBU using an XLR connector.

Remote Control

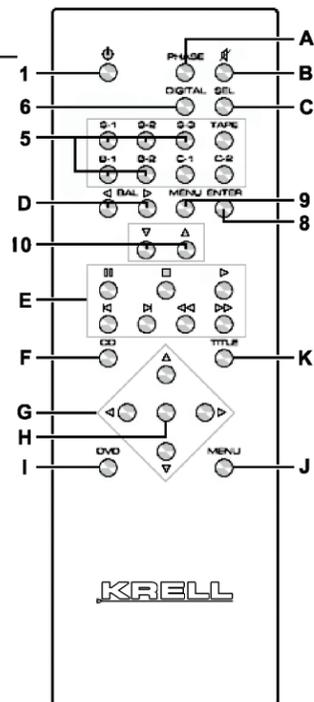


Figure 2 The Illusion II Remote Control

- Keys labeled 1 to 10**
have the same function (and callout number) as the front panel controls.
- Keys labeled A through K**
are unique to the re-remote control, and are described below:
- A Phase key**
Inverts the polarity of the audio signal. A lowercase i is displayed when the polarity is inverted.
- B Mute key**
Use this mute all outputs. A second press of the mute key will unmute the outputs.
- C Sel(ect) key**
Cycles through the digital inputs.
- D Bal(ance) keys**
Use to balance left and right output levels.
- E Transport keys**
These keys are functional with all Krell CD and DVD players.
- F CD key**
Press this to make the transport keys operate Krell CD players.
- G Direction keys**
Use these keys to navigate CD and DVD menus.
- H Select Key**
Use this to make selections from CD and DVD menus.
- I DVD key**
Press this to make the transport keys operate DVD players.
- J Menu key**
Use this to enter CD or DVD player menus.
- K Title key**
Use this with CD or DVD player menus.

Customizing the Illusion II

Configurable Functions

AC Mains
Balance (channel)
Balance (input trim)
Display, Info
Input Level Trim
Input Name, Input Phase
Input Trigger, Mute, Output Trigger, Recall, Save, Theater.

The menu button or key (9) allows you to configure functions. Enter the menu to view the list of configurable functions.

Select a function to view a submenu of the list of options that configure the function. You can configure some options as well, if a second submenu appears when you select an option.

Navigation Conventions

Navigating the preamplifier menu is straightforward and consistent throughout, using 4 functions and the menu option BACK.

9 Menu Button or Key
To enter the menu, press the menu button or key. Once you are in the menu, you can press the menu button or key to exit the menu.

10 Level Control Buttons or Up and Down Keys
Use the level control buttons or the up and down keys on the re-remote control to scroll forward and backward through the menu hierarchy. Each menu list is a continuous loop.

- 8 Enter Button or Key**
Press this button or key to select a function or a configuration option, and confirm a selection
- 3 Front Panel Display**
The display shows the active function and configurable options.
- BACK**
Select BACK to scroll backwards through the menu hierarchy, or to exit a menu option without confirming that option.