

Because of its powerful amplifier channels and high-capacity power supply, iBias amplifiers will benefit from a dedicated AC circuit. Avoid connections through extension cords or multiple AC adapters. High quality 20 amp AC strips are acceptable. Please contact your authorized Krell dealer or distributor before using any devices designed to alter or stabilize the AC power.

Connecting the iBias Amplifier 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. For the Solo 375 or Solo 575, Krell recommends the use of CAST. A Krell exclusive technology, a Krell system connected with Krell CAST MMF cable is the fullest expression of Krell engineering.

Follow these steps to connect an iBias amplifier to your system.

1. Make sure all power sources and components are off before connecting inputs and outputs.
2. Neatly organize the wiring between the iBias amplifier and all system components. Separate AC wires from audio cables to prevent hum or other unwanted noises from being introduced into the system.
3. Connect the left and right loudspeaker cables to the amplifier's left and right loudspeaker output terminals (14).
4. Connect the left and right outputs of your preamplifier or processor to the appropriate analog inputs (15, 16, 17) on the iBias amplifier.
5. Plug the AC cord into the IEC connector (22) on the back panel of the iBias amplifier. Plug the remaining end into the AC wall receptacle. Move the Power Breaker Switch on the rear panel to the up position. The red stand-by indicator (2) illuminates and the display shows the model number, firmware version, serial number, and IP address.

Note

Use only the power cord provided with the iBias amplifier 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 iBias amplifier to perform optimally.

When powering up any system, always turn amplifiers on last.
When powering down, always turn amplifiers off first.

1. When the amplifier is in stand-by mode, with the red stand-by indicator (2) illuminated, turn the amplifier on by pressing the power button on the front panel (1). There are audible clicks. The blue power indicator (2) illuminates. The display will show the IP Address and model number and then turn off. The iBias amplifier is now in the operational mode.
2. With the preamplifier or processor in the mute position, or the volume control fully attenuated, select a source.
3. Start playing the source.
4. Set the volume to a comfortable listening level using the preamplifier or processor volume control.
5. To turn the amplifier off, press the power button on the front panel (1). The red stand-by indicator (2) illuminates.
It is now safe to turn off the rest of the system.

MODEL: _____ SERIAL NUMBER: _____



iBias Power Amplifier

Duo 125, 175, and 300 Stereo Amplifiers
Solo 375 and Solo 575 Mono Amplifiers
Trio 300 Three Channel Amplifier
Chorus 4200, 5200, and 7200 Multi Channel Amplifiers

SETUP GUIDE

Getting Started

Krell's history is rich with breakthrough Class A amplifiers that have helped build the Krell legacy of offering the best sounding amplifiers available. Audiophiles have always considered Class A technology to be the best sounding operating state for amplifiers. However, despite Class A's unrivaled sound quality, it has fallen out of fashion because of recent demands to reduce power consumption and heat in home electronics products. Krell engineering took this challenge and redefined the meaning of high performance power amplifier. Our goal – unmatched performance, elegant design, and a compelling array of features. The breakthrough, iBias, a patent pending circuit delivering Class A operation without the excessive heat and wasted energy of conventional designs, housed in a striking new form factor, with network connectivity for advanced access and monitoring. The sound is open and unconstrained, in a manner that rivals live performance and the true sound of voices and instruments. Music and dialogue are reproduced with a richness, detail, and startling dynamics that fill a room. The iBias amplifier is easy to operate and integrate into your system.

Overview



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.

Do not place the amplifier 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 amplifier as well as the fan openings on the back 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 amplifier 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.

Unpacking

Note

Save all packing materials. If you need to ship the iBias amplifier 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 iBias amplifier chassis
- 1 IEC connector (AC power) cord
- 1 12V Trigger cable
- 1 Setup Guide

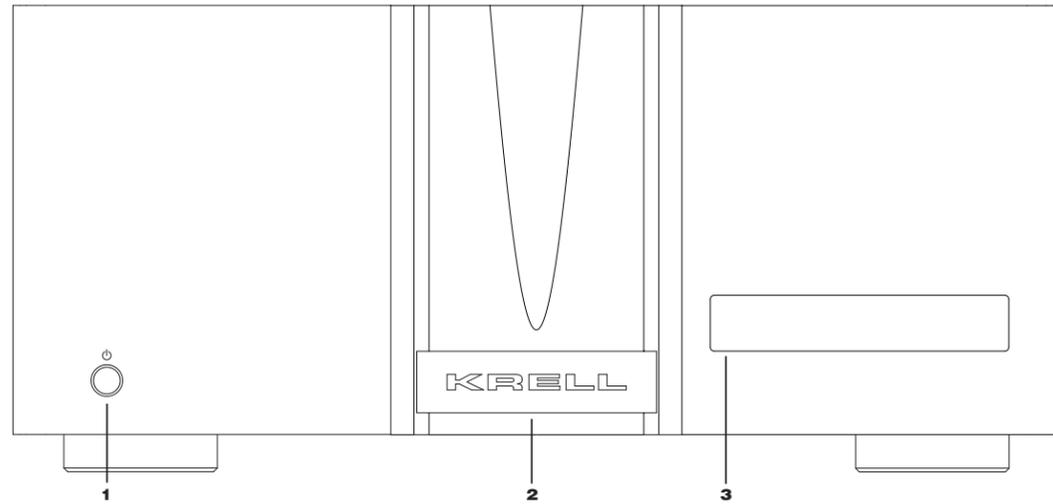
2. Carefully remove all items from the shipping box.
3. Place the amplifier in a safe location and remove the protective plastic wrapping.

Placement

Place the iBias amplifier on a firm, level surface, away from excessive heat, humidity, or moisture. The amplifier requires at least one inch (2.54 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.

Figure 1 The iBias Front Panel

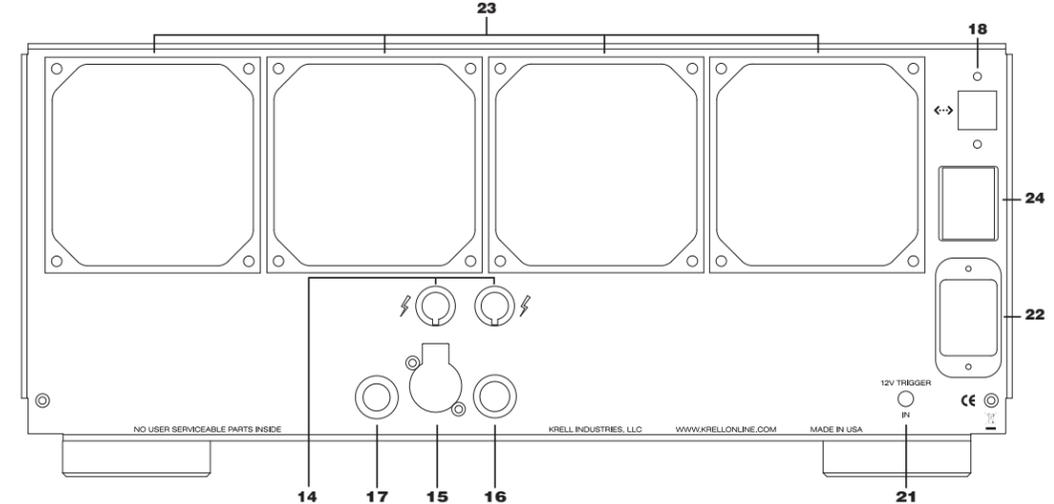
Front Panel



- 1 Power Button**
Use this button to switch the iBias amplifier between stand-by and operational modes.
- 2 Power Indicator**
The stand-by indicator illuminates red when the iBias amplifier is plugged into a standard AC wall receptacle and the rear panel power breaker switch is in the up position, indicating that the amplifier is in the stand-by mode and ready to be switched to the operational mode. The indicator illuminates blue when the iBias amplifier is in operational mode.
- 3 Front Panel Display**
The front panel display shows the model number, firmware version, serial number, and IP address. Fault conditions are also displayed in the front panel display.

Figure 3 The iBias Back Panel - Solo 575 shown

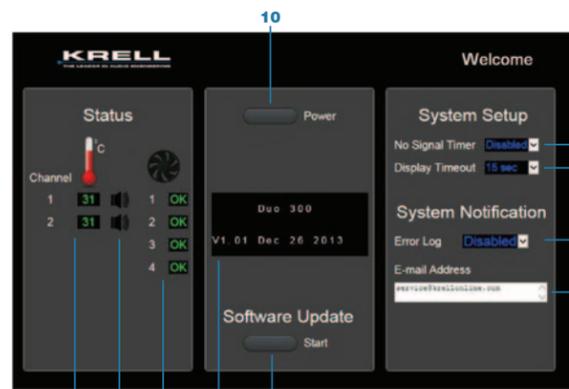
Back Panel



- 14 Loudspeaker Outputs**
The iBias amplifier is equipped with standard binding posts for each amplifier channel.
- 15 Balanced Analog Inputs**
The iBias amplifiers are equipped with one balanced input per channel via XLR connector.
- 16 Single-Ended Analog Inputs**
The iBias amplifiers are equipped with one single-ended input per channel via RCA connector.
- 17 CAST Inputs Solo 375 and Solo 575 only**
The iBias mono amplifiers are equipped with one CAST input via a LEMO connector and is for use with a CAST equipped preamplifier or surround processor.
- 18 Ethernet Connection**
The RJ45 connector is used to connect an iBias amplifier to a network. Once the amplifier is connected to a network router with Internet access, the amplifier's advanced protection systems are now viewable on an Internet-connected device. Excessive current, output DC, fan speeds, short circuit, and overheating are all monitored in real time. If an issue occurs, the fault is displayed on the front panel and reported on the web server interface. Emails will automatically be sent to as many as three email addresses to notify Krell, the end user and/or the dealer of the condition.
- 21 12 VDC In (12 V trigger)**
The 12 V Trigger input allows you to place the iBias amplifier into the stand-by or operational mode from other components.
- 22 IEC Connector**
The connector is for use with the provided IEC standard 20 amp power cord. This connector and power cord must remain unobstructed for easy removal in case of emergency.
- 23 Cooling Fans**
iBias amplifiers come equipped with up to four fans. Please keep the fan openings clear of any obstructions to allow proper air flow.
- 24 AC Power Breaker Switch**
Use this switch to change the iBias amplifier from off to the stand-by mode.

Network Control

Figure 2 Network Control Screen - Duo 300 Shown



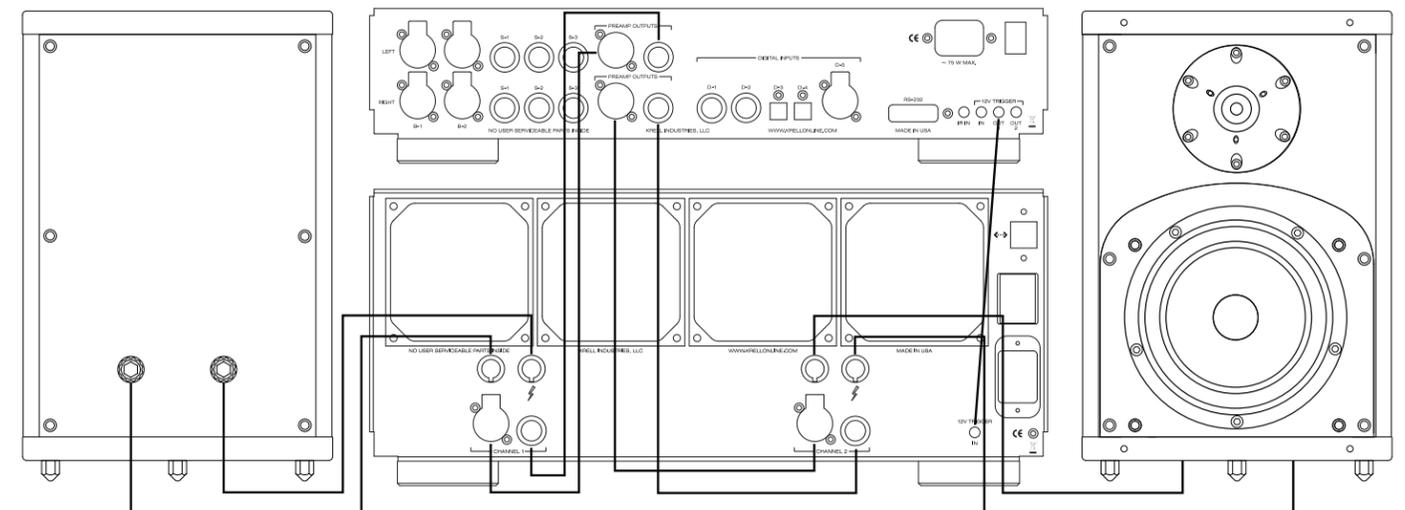
After connecting the iBias amplifier to a network via the RJ 45 connector (18), enter the amplifier's IP address into the address bar of a network device on the same network. The following additional features are now available.

- 1 Temperature Monitoring**
The iBias amplifiers monitor the temperature of each channel and adjust fan speed to maintain proper cooling. Temperatures listed in green, yellow, and red, indicating cool, warm, and hot operating temperatures.
- 2 Channel Muting**
Press the speaker icon to mute and unmute an individual channel
- 3 Fan Operation Status**
Fan speed is monitored and is indicated by a green OK for proper operation and a red E for an error.
- 4 Display Window**
Indicates amplifier status and any fault conditions.
- 5 Software Update**
Press this button to initiate a software update
- 6 Error Log**
Set to Enabled to have fault conditions sent to the email addresses listed in the E-mail address window (7).

- 7 E-mail Address window**
Up to 3 email addresses can be entered to receive fault condition emails.
- 8 Display Timeout**
Set the time for how long the front panel display remains illuminated. The Disabled option keeps the display illuminated indefinitely.
- 9 No Signal Timer**
Set the time for how long the amplifier remains in operational mode without receiving an input signal. The Disabled option keeps the amplifier in operational mode indefinitely.

Note
The network must have internet access for features 5 and 6 to function.

Figure 4 Connection Diagram



Note
Use only one type of connection: Single-ended, balanced, or CAST between Preamp and Amplifier