KID

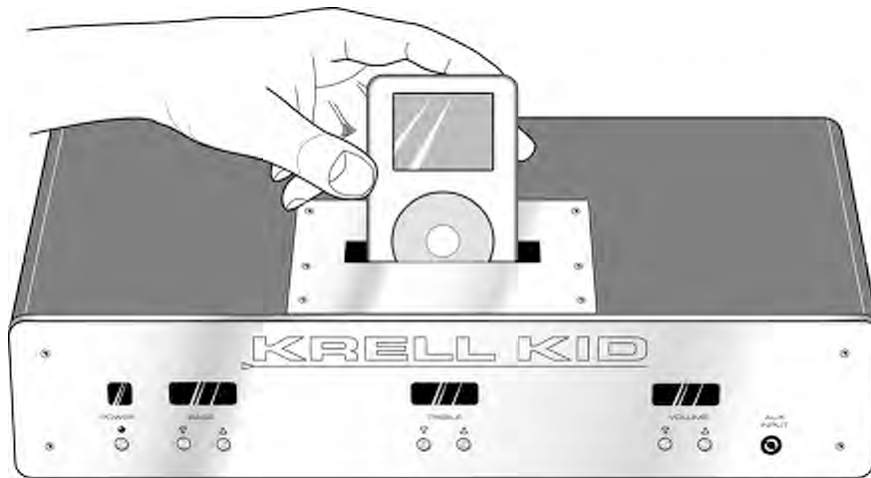**Owner's Reference**

KRELL

▶ **THE LEADER IN AUDIO ENGINEERING**

Owner's Reference, v 07.0

CONTACT INFORMATION

Krell Industries, Inc.
45 Connair Road
Orange, CT 06477-3650 USA
TEL 203-298-4000
FAX 203-891-2028
E-MAIL krell@krellonline.com
WEBSITE http://www.krellonline.com

IMPORTANT SAFETY INSTRUCTIONS

1. *Read Instructions.*

2. *Keep these Instructions.*

3. *Heed all Warnings.*

4. *Follow all Instructions.*

5. *Do not use this apparatus near water.*

6. *Clean only with dry cloth.*

7. *Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.*

8. *Unplug this apparatus during lightning storms or when unused for long periods of time.*

9. *Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as a power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.*

10. *The KID must be placed on a firm, level surface where it is not exposed to dripping or splashing.*

11. *The ventilation grids on the top and bottom of the KID must be unobstructed at all times during operation. Do not place flammable material above or beneath the KID.*

12. *Before making connections to the KID, ensure that the power is off and other components are in mute or stand-by mode. Make sure all cable terminations are of the highest quality, free from frayed ends, short circuits, or cold solder joints.*

13. *THERE ARE NO USER SERVICEABLE PARTS INSIDE A KID.*

Please contact Krell if you have questions not addressed in this guide.

CE

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

INTRODUCTION

Thank you for your purchase of the KID, the Krell Interface Dock. The KID delivers maximum sonic performance from an iPod-device and is designed for use with the iPod-device with video and the iPod-device with Click Wheel. The KID is the first product of its kind to utilize the fully differential output of the internal DAC for iPod-devices. Additional features include opto-isolated digital connections between the iPod-device and the KID, and balanced differential Class A circuitry. Ultra low noise volume control, with digitally-controlled analog bass and treble controls fine-tune your listening experience. A self-locating top loading cradle for the iPod-device, and a full-function remote control make operation flexible. Balance and single ended outputs, composite and s-video outputs, and an RS-232 control allow for a variety of connection options.

CONTENTS

ILLUSTRATIONS

This owner's reference contains important information on the placement, installation, and operation of the KID. Please read this information carefully. A thorough understanding of these details will help ensure satisfactory operation and long life for your KID and related system components.

REMOVING THE KID
FROM THE SHIPPING BOX

One person can remove the KID from its shipping box safely and easily.

1. Open the shipping carton top flap. You see the literature pack containing:

    1   Owner's Reference
    1   Warranty Registration Card

2. Remove the literature pack and the top layer of foam to view:
    1   KID
    1   AC power cord
    1   KID remote control
    1   CR2025 lithium battery

3. Face the front of the shipping box and remove the foam insert containing the AC power cord by pulling the insert straight out of the box.

4. Set the remote and the AC power cord aside, for later use.

5. Insert your hands below the left and right foam inserts surrounding the KID.

6. Lift the KID with the foam inserts straight out of the box.

7. Place the KID on a safe place work surface, on its side, resting on one of the foam inserts.

8. Remove the other foam insert.

9. Reposition the KID on the work surface, with the side containing the remaining foam insert tilted up.

10. Remove the second foam insert.

11. Remove the foam enclosing the component.

If any of the listed items are not included in the shipping box, please contact your authorized Krell dealer or distributor.

Save all packing materials. If you need to ship the KID in the future, repack the unit in its original packaging to prevent shipping damage. See Return Authorization Procedure, on page 12, for more information.

PLACEMENT CONSIDERATIONS

Before installing the KID into your system, please review the following guidelines to choose the proper location for the KID. This will facilitate a clean, trouble-free installation.

Place the KID on a firm, level surface, away from excessive heat, humidity, or moisture. The KID does not require any type of special rack or cabinet for installation.

The measurements of the KID are:

    13 W X 2.8 H X 10.9 D in
    33 W X 7 H X 27.7 D cm

The KID requires the following clearance for adequate ventilation:

—   at least eight inches (20 cm) above (to accommodate the iPod-device)

The ventilation grids, on the bottom of the KID chassis, must be unobstructed.

If the KID is placed in a closed cabinet, more than eight inches (20 cm) of clearance may need to be provided above and below the component, or small fans may be needed to increase ventilation. The air space between the chassis and shelf must be unobstructed.

AC Power Guidelines. Use only the power cord provided with the KID. The use of the KID with devices designed to alter or stabilize the AC power may impair the ability of the interface dock to perform optimally.

FIGURE 1 Front Panel

Inset shows docking station on top cover
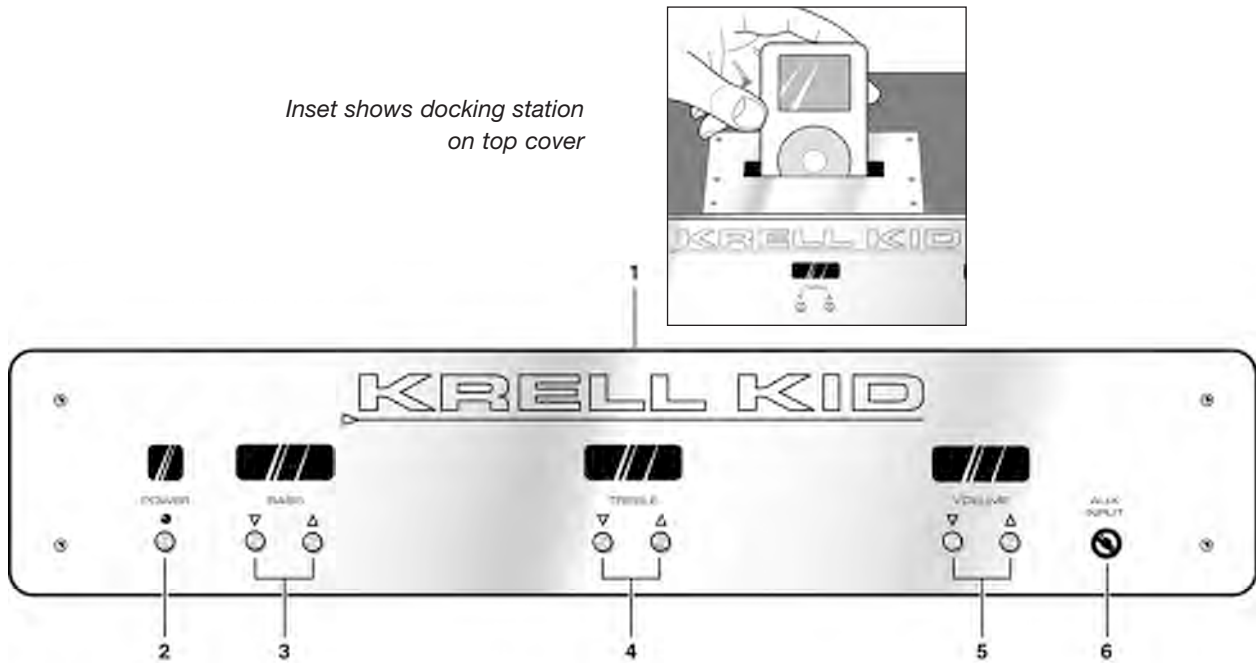
TOP ONLY

1   iPod-device docking station

FRONT PANEL ONLY

6   Auxiliary Input

FRONT PANEL AND REMOTE

2   Power button/key
3   Bass control button/keys
4   Treble control button /keys
5   Volume level button/keys

REMOTE ONLY

7   DISP key (turns on iPod-device backlight)
8   Menu key
9   Up directional keys: iPod-device up arrow key
10 Down directional keys: iPod-device down arrow key
11 Left and right directional keys and the keys below
    the label TRACK iPod-device Previous and Next
    Track keys
12 Play/Resume key
13 Stop key
14 Repeat key
15 Shuffle key
16 Pause key
17 Mute key
18 Search keys
19 Album keys
20 Playlist key

Button = front panel mechanism
Key = remote function mechanism

FIGURE 2 Remote Control
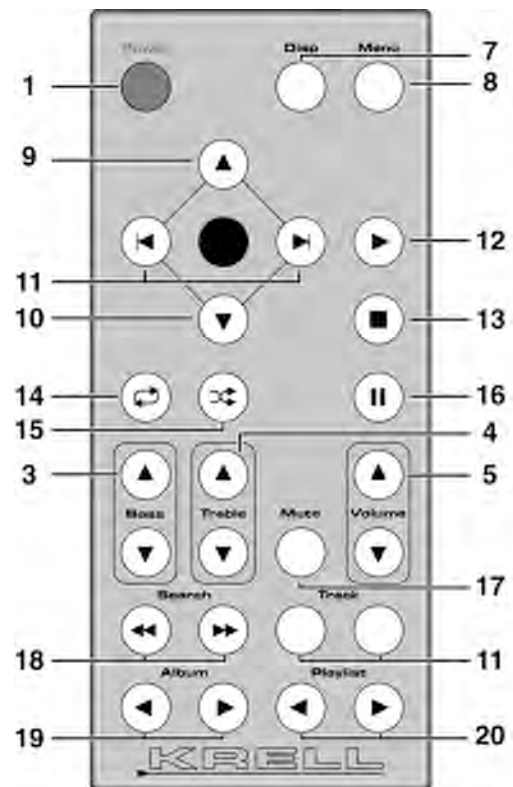
TOP PANEL ONLY

1   iPod-device docking station
Connect the iPod-device to the KID using the docking station. The iPod-device takes the KID in and out of stand-by.

When an iPod-device is connected to the dock, the KID automatically moves to the operational mode from stand-by.

When an iPod-device is removed from the dock, the KID automatically reverts to the stand-by mode.

6   Aux Input
Use this input instead of the docking station (1) to connect any audio source via a 3.5 mm stereo phone cable.

FRONT PANEL AND REMOTE

2   Power Button
Press the power button or key to take the KID in and out of stand-by.

Power LED Color Guide
When the KID is plugged into AC power, the power LED illuminates:

Red   The KID is in stand-by mode.

Blue   The KID is on, in the operational mode, indicating that an iPod-device is connected.

Purple   The KID is on, in the operational mode, and an iPod-device is not connected.

3 Bass Control
Two buttons or keys control the bass tone

control + or - 6 dB. The bass control is within the KID and not in the iPod-device.

4 Treble Control
Two buttons or keys control the treble tone control + or - 6 dB. The treble control is within the KID and not in the iPod-device.

5 Volume Control
Two buttons or keys control the KID's volume, up or down from 0 to 151. Press and hold both volume buttons at the same time for 3 seconds and the volume will lock so the KID can be used as a source in an A/V system.

Press and hold both volume buttons or keys at the same time for 3 seconds to unlock the volume. The volume control is within the KID and not in the iPod-device.

REMOTE ONLY

7 DISP Key
Turns on the iPod-device backlight.

8 Menu Key
Activates the iPod-device menu function. The remote menu key does not have a held function.

9 Up Directional Key
Performs the iPod-device up arrow function.

10   Down Directional Key
Performs the iPod-device down arrow function.

**11   Left and Right Directional Keys
or Track Keys**
Activate the iPod-device previous and next track functions respectively.

12   Play Key
Performs the iPod-device play/resume function.

13   Stop Key
Performs the iPod-device stop function.

14   Repeat Key
Performs the iPod-device repeat function.

15 Shuffle Button
Performs the iPod-device shuffle function.

16   Pause Key
Performs the iPod-device pause function.

17   Mute Key
Performs the iPod-device mute function.

18   Search Up/Down Keys
Press and hold these keys to perform the iPod-device search function.

19   Album Up/Down Keys
Perform the iPod-device album up and down functions.

20   Playlist Up/Down Keys
Perform the iPod-device playlist up and down functions.

FIGURE 3 Back Panel
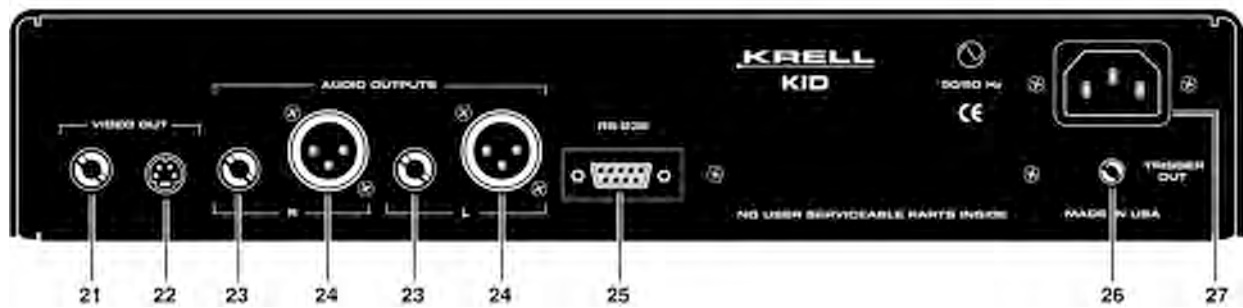
21 Composite video output
22 S-video output
23 Single-ended analog audio outputs
24 Balanced analog audio outputs

25 Comm Port RS-232 connector
26 12 VDC Out
27 IEC power connector

BACK PANEL CONNECTIONS

VIDEO OUTPUTS

21 Composite Video Outputs
One composite video output with an RCA connector.

22 S-video Output
One S-video output with a DIN connector.

ANALOG OUTPUTS

23 Single-ended Audio Outputs
Two single-ended analog audio channel outputs with RCA connectors.

24 Balanced Analog Audio Outputs
Two balanced analog audio channel outputs with XLR connectors.

BACK PANEL REMOTE CONTROLS

25 Comm Port RS-232 Connector
Sends software updates directly to the KID using an external computer control system.

26 12 VDC Out
Sends a 12 V power on/off signal via a 12 V trigger cable to other Krell components and to other devices that incorporate 12 V power on/off trigger input.

When the KID is in the operational mode and a trigger is enabled, the 12 VDC Out provides 12 V of DC output. When the KID is in the stand-by mode or off, or if a trigger is not enabled, the DC output is 0 V.

POWER CONNECTION

59 IEC Connector
A standard male IEC power connector, for use with the AC power cord.

INSTALLATION / CONNECTION OVERVIEW

To prepare the KID for operation, follow the connecting sequence below:

1. Install the batteries in the remote. (This page.)

2. Connect the KID to your system and plug the KID into AC power. (This page.)

4. Insert the ipod-device in the KID docking station. (Next page.)

BATTERY INSTALLATION AND REMOVAL

The KID remote control uses one CR2025 lithium battery which is included with the shipment.

To open the battery compartment on the back of the remote control:

1. Place the remote face down on the table.

2. Use your thumbnail or a small jeweler's or eye-glass screwdriver to move the small tab toward the center of the remote, while using your index fingernail or screwdriver to pull down gently on the slot to the right of the tab. The battery compartment will slide out.

3. Place the battery plus side up in the battery tray.

4. Slide battery compartment back into the remote until you hear a click.

The remote control is ready for operation.

Note. Do not use a knife or other sharp objects to open the battery compartment; to avoid scratching the remote control finish.

Note. Replace batteries when remote control function becomes intermittent. Remove batteries if the remote control is not to be used for a long period of time. Battery leakage can damage the remote control.

CONNECTION STEPS

The KID connects to a preamplifier, processor, or amplifier as an A/V source. In addition, it connects to the Krell PAPA Dock, a 150 W amplifier specifically designed for the Krell KID. The KID is equipped with a balanced and single-ended analog audio output, as well as an S-video and a composite video output.

Follow these steps to connect the KID to your system:

1. Make sure all power sources and components are off before connecting inputs and outputs.

2. Neatly arrange and organize wiring between the KID and all system components. Separate AC wires from audio cables to prevent hum or other unwanted noise from being introduced into the system.

3. Remember that balanced outputs use three-pin XLR connectors. Single-ended outputs use RCA connectors. Maintain the correct left/right orientation.

4. Connect the balanced or single-ended analog audio outputs to the corresponding inputs on the preamplifer or processor, or to the amplifier in your system.

5. Connect the S-video or composite output to the corresponding input on the monitor in your system.

6. Plug the AC power cord into the IEC power connector on the back panel. Then plug the AC power cord into the wall socket.

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

**FIGURE 4 Inserting the iPod-device
Into the Docking Station**
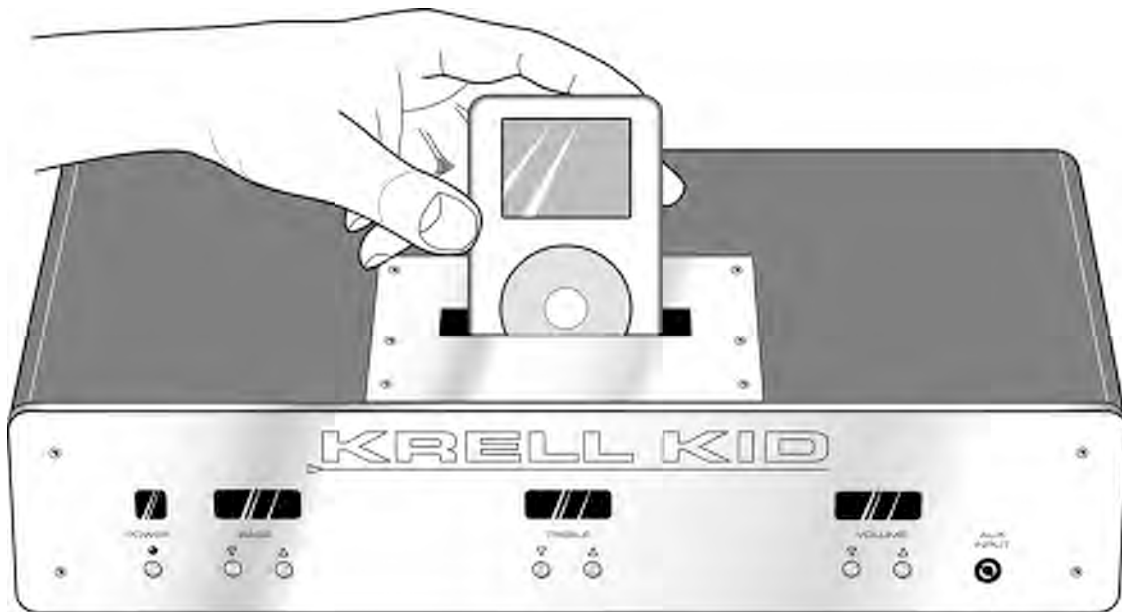
The Krell KID will self-center and self-adjust for an iPod-device conforming to the iPod-device 3G, 4G, Photo, or 5G mechanical specifications. With the KID plugged into AC power:

1. Hold the iPod-device close to a 16 degree angle, referenced to the top horizontal surface of the KID.

2. Set the iPod-device in the center of the dock so it is resting on top of the four acrylic rollers.

3. Push down on the top of the iPod-device so it positions itself inside the four rollers and onto the connector.

When the KID is in stand-by mode, it will charge the iPod-device battery, if the iPod device is connected to the KID via the docking station (1).

POWER LED COLOR GUIDE

Power LED Color Guide
When the KID is plugged into AC power, the power LED illuminates:

Red   The KID is in stand-by mode.

Blue   The KID is on, in the operational mode, indicating that an iPod-device is connected.

Purple   The KID is on, in the operational mode, and an iPod-device is not connected.

OPERATIONAL STEPS

This section provides information about operating the KID, after it is plugged into AC power.

1. Insert the iPod-device into the docking station (1) on the top cover, and wait for the KID to turn on, as it communicates with the iPod-device.

2. Press the play key (12) on the remote.

3. Adjust the volume to the desired level using the buttons (5) on the KID front panel or keys on the remote. Numerical values indicating the volume level appear in the display window.

4. Adjust the bass tone control (3) to the desired level using the buttons on the KID front panel or the keys on the remote. Numerical values indicating the bass tone level appear in the display window.

5. Adjust the treble tone control (4) to the desired level using the buttons on the KID front panel or the keys on the remote. Numerical values indicating the treble tone level appear in the display window.

6. Press the stop key (13) to end playback.

7. Press the play button or key to begin playback again.

DEFINITION OF TERMS

The following are definitions of key terms used in this owner's reference.

OPERATION
Off
The component is off when the AC power cord is unplugged from the wall receptacle.

Stand-by Mode
A low power consumption status that keeps the audio and regulator circuits at idle. When the KID is in stand-by mode, the power LED (2) illuminates in red. Krell recommends leaving the component in the stand-by mode when it is not playing music.

When the KID is in stand-by mode, it will charge the iPod-device battery, if the iPod device is connected to the KID via the docking station (1).

Operational Mode
The component is in the operational mode when it is ready to play music. In the operational mode, The power LED (2) on the KID illuminates in blue when the IPod-device is in the docking station (1). The power LED illuminates in purple, when a device is attached to the aux input (6).

AUDIO OUTPUT CONNECTIONS
Balanced
A symmetrical input or output circuit that has equal impedance from both input terminals to a common ground reference point. The industry standard for professional and sound recording installations, balanced connections have 6 dB more gain than single-ended connections, and allow the use of long interconnect cables. Bal-anced connections are completely immune to induced noise from the system or the environment.

Single-ended
A two-wire input or output circuit. Use care when using single-ended connections as the ground connection is made last and broken first. Turn the system off prior to making or breaking single-ended connections. Single-ended connections are not recommended for connections requiring long cable runs.

VIDEO OUTPUT CONNECTIONS
S-Video Signal
An analog video signal that carries the video data as two separate signals (brightness and color).

Composite Video Signal
An analog video signal that carries the entire set of video signals in one signal line.

Krell products have a limited warranty. The KID carries a limited warranty of 2 years for parts and labor on circuitry. Amplifiers, preamplifiers, preamp/processors, and receivers carry a limited warranty of five years for parts and labor on circuitry. Loudspeakers carry a limited warranty of five years for parts and labor. CD and DVD players carry a limited warranty of five years for parts and labor on circuitry, and three years for parts and labor on mechanical parts.

Should the product fail to perform at any time during the warranty, Krell will repair it at no cost to the owner, except as set forth in this warranty.

This warranty does not apply to damage caused by acts of God or nature.

This warranty shall be in lieu of any other warranty, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. There are no warranties which exceed beyond those described in this document, if the product does not perform as warranted herein, the owner's sole remedy shall be repair. In no event will Krell be liable for incidental or consequential damages arising from purchase, use, or inability to use the product, even if Krell has been advised of the possibility of such damages.

Proof of purchase in the form of a bill of sale or receipted invoice substantiating that the product is within the warranty period must be presented to obtain warranty service. The warranty begins on the date of the original retail purchase, as noted on the bill of sale or receipted invoice from an authorized Krell dealer or distributor. Previously owned equipment, when re-purchased from an authorized Krell dealer or distributor, has the balance of the original warranty, based on the original date of manufacture. Krell dealers and distributors are not authorized to sell current products on the Internet. Current products purchased via the Internet do not have any transferrable warranty.

The warranty for a Krell product is valid only in the country to which it was originally shipped, through the authorized Krell distributor for that country, and at the factory. There may be restrictions on or changes to the Krell warranty because of regulations within a specific country. Please check with your distributor for a complete understanding of the warranty in your country.

If the product is serviced by a distributor who did not import the unit, there may be a charge for service, even if the product is within the warranty period.

Freight to the factory is your responsibility. Return freight within the United States (U.S.A.) is included in the warranty. If you have purchased your Krell product outside the U.S.A. and wish to have it serviced at the factory, all freight and associated charges to the factory are your responsibility. Krell will pay return freight to the U.S.A.-based freight forwarder of your choice. Freight and other charges to ship the product from the freight forwarder to you are also your responsibility.

Krell is not responsible for any damage incurred in transit. Krell will file claims for damages as necessary for a product damaged in transit to the factory. You are responsible for filing claims for shipping damages during the return shipment.

Krell does not supply replacement parts and/or products to the owner of the product. Replacement parts and/or products will be furnished only to the distributor performing service on this product on an exchange basis only; any parts and/or products returned to Krell for exchange become the property of Krell.

No expressed or implied warranty is made for any Krell product damaged by accident, abuse, misuse, natural or personal disaster, or unauthorized modification.

Any unauthorized voltage conversion, disassembly, component replacement, perforation of chassis, updates, or modifications performed to the product will void the warranty.

The operating voltage of the product is determined by the factory and can only be changed by an authorized Krell distributor or at the factory. The voltage for this product in the U.S.A. cannot be changed until six months from the original purchase date.

In the event that Krell receives a product for warranty service that has been modified in any way without Krell authorization, all warranties on that product will be void. The product will be returned to original factory layout specifications at the owner's expense before it is repaired. All repairs required after the product has been returned to original factory specifications will be charged to the customer, at current parts and labor rates.

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

To register your product for warranty benefits, please complete and return the Warranty Registration Card enclosed in the shipping box within 15 days of purchase. Thank you.

PROCEDURE FOR RETURNS

To return a product to Krell, please follow this procedure so that we may serve you better:

1. Obtain a Return Authorization Number (R/A number) and shipping address using the Krell website.

2. Insure and accept all liability for loss or damage to the product during shipment to the Krell factory and prepay all freight (shipping) charges.

The product may be hand delivered if arrangements with the Service Department have been made in advance. Proof of purchase will be required for warranty validation at the time of hand delivery.

TO EXPEDITE SERVICE

Fill out and e-mail the Service Request Form posted on the Krell website. To access the form, simply click on the Service Request Form in the navigation tier on the Krell home page at:

http://www.krellonline.com

or paste the following URL into your browser:
http://www.krellonline.com/service2.php?id=79&page=serviceRA

PACKING MATERIALS

IMPORTANT: Use the original packaging to ensure the safe transit of the product to the factory, dealer, or distributor. Krell may, at its discretion, return a product in new packaging and bill the owner for such packaging if the product received by Krell was boxed in nonstandard packaging or if the original packaging was so damaged that it was unusable.If Krell determines that new packaging is required, the owner will be notified before the product is returned

To Purchase Additional Packing Materials.
Please contact your authorized Krell dealer, distributor, or the Krell Service Department.

KRELL SERVICE DEPARTMENT	
TEL	203-298-4020
	Monday-Friday
	9:00 am to 5:00 pm, EST
FAX	203-795-2287
E-MAIL	service@krellonline.com
WEB SITE	http://www.krellonline.com

SPECIFICATIONS

Inputs
30-pin iPod-device type
1 3-conductor 3.5 mm connector

Audio Outputs
1 pair balanced via XLR connectors
1 pair single-ended via RCA connectors

Video Outputs
1 S-video via a DIN connector
1 Composite via a RCA connector

Control Inputs
1 RS-232 input via a 9-pin D-subminiature connector

Control Outputs
1 12 VDC trigger output via 2-conductor
3.5 mm connectors (500 milliamps maximum
per output)

Input impedance
Single-ended: 47.5 k Ohms

Output impedance
Balanced: 50 Ohms
Single-ended: 25 Ohms

Volume Control
256-step Digital Control

Input Overload
Single-ended: 4 V RMS

Output Overload
Balanced: 16 V RMS
Single-ended: 8 V RMS

Frequency Response
20 Hz to 20 kHz +0.7 dB, -0.0 dB
0.1 Hz to 90 kHz +0.7, -3 dB

Tone Control Range
Bass: +8 dB, -7 dB
Treble: +6 dB, -6 dB

Total Harmonic Distortion Plus Noise
Balanced Output: <0.002%, 20 Hz to 20 kHz,
4 V RMS or 4 mA RMS

Signal-to-noise Ratio
Wideband, Unweighted: >94 dB
"A" Weighted: >97 dB

Power Consumption
Standby: 10 W
Power on: 25 W

Dimensions
13 W x 2.8 H x 10.9 D in.
33.0 W x 7.0 H x 27.7 D cm

Weight
Unit Only: 10 lb., 4.5 kg

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

Your KID product serial number is: