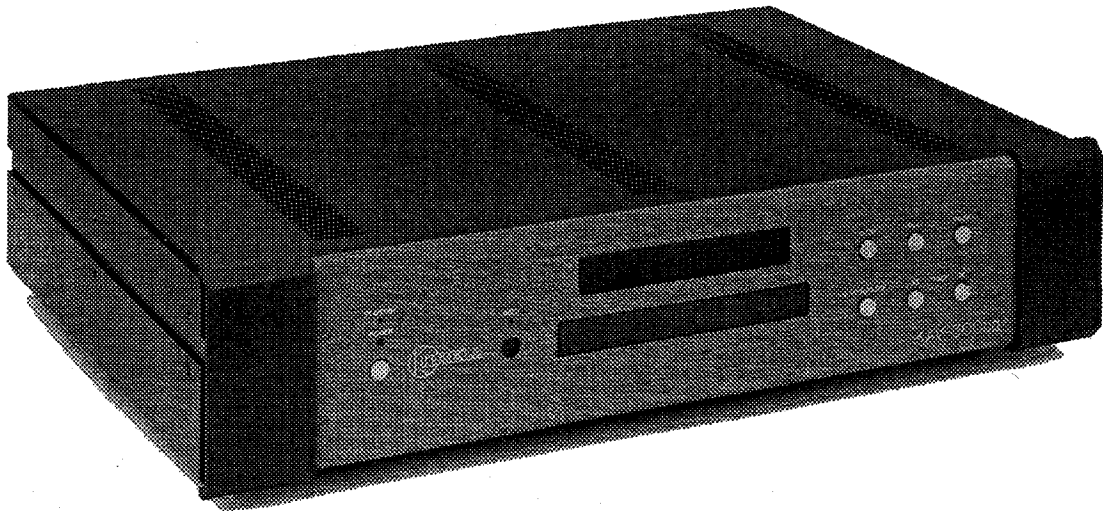




# **KAV-300cd** **Front Loading** **Compact Disc Player**

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**Instructions for Use, v 99.0**



**Owner's Reference**

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**KAV-300cd  
Front Loading  
Compact Disc Player**

**Krell Industries, Inc.**

**45 Connair Road**

**Orange, CT 06477-3650 USA**

**TEL 203-799-9954**

**FAX 203-799-9796**

**E-MAIL [krell@krellonline.com](mailto:krell@krellonline.com)**

**WEB SITE [www.krellonline.com](http://www.krellonline.com)**

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## CE Marking

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 Krell KAV-300cd Front Loading Compact Disc Player. The KAV-300d's transport design eliminates error-producing wobble and delivers exceptional tracking & focus accuracy, regardless of environment or disc characteristics. Digital circuitry provides ultra-high signal resolution and directly coupled analog circuitry assures superior low-frequency performance, with low distortion, wide bandwidth, and minimal negative feedbacks. The KAV-300cd can be seamlessly into a home theater or whole-house audio system, and the hand-held remote control provides convenient operation of the KAV-300cd as well as other Krell components. This owner's reference manual contains important information on placement, installation, and operation of your KAV-300cd. Please read this information carefully. A thorough understanding of these details will help ensure satisfactory operation and long life for your KAV-300cd and related system components.

THERE ARE NO USER-SERVICEABLE PARTS INSIDE ANY KRELL PRODUCT.

**Please contact your authorized dealer, distributor, or Krell, if you have any questions not addressed in this reference manual.**

## Unpacking

1. Open the box and remove the top layer of foam. You will see these items:
  - 1 KAV-300cd
  - 1 AC power cord
  - 1 12 VDC remote cable link
  - 1 3 AG 3 AMP 250V fast acting fuse
  - 1 KAV-300c remote control
  - 2 AAA batteries
  - 1 packet containing an introductory letter from C.E.O. Dan D'Agostino, the Owner's Reference, and the Warranty Registration Card
2. Carefully remove the unit and accessories from the box. Remove the protective plastic wrap from the unit.

### Notes

*If any of these items are not included, please contact your authorized Krell dealer or distributor immediately for assistance.*

*Save all packing materials. If you must ship your KAV-300cd in the future, repack the unit in its original packaging to prevent transit damage.*

<sup>1</sup>Krell is the registered trademark of Krell Industries, Inc.

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## Placement

### WARNING

The compact disc player must not be located where it could be exposed to dripping or splashing fluids.

The ventilation grids on the top of the KAV-300cd need to be unobstructed at all times during operation. Do not place flammable material on top of or beneath the KAV-300cd. For installations inside cabinets, make sure the KAV-300cd has adequate air circulation. Contact your authorized dealer, distributor, or Krell for more information.

Before you install the KAV-300cd into your system, review the following guidelines to choose the location for the KAV-300cd. This will facilitate a clean, trouble-free installation. The KAV-300cd does not require any type of special rack or cabinet for installation. *For the dimensions of the KAV-300cd, see **Specifications** on the back cover.*

1. Place the KAV-300cd on a firm level surface, away from excessive heat, humidity or moisture.
2. Although well shielded, the KAV-300cd should not be placed near hum sensitive components such as preamplifier phono stages or turntables. The power supply may create interference and induce hum.

3. The KAV-300cd incorporates an advanced suspension system and does not require additional mass coupling or isolation. You may experiment with feet or cones as long as they are not permanently affixed to the chassis. Any unauthorized modifications to the electronics or chassis will void the warranty.

### IMPORTANT

*The use of CD rings, mats, or other devices attached to individual CDs is not recommended. These devices may cause problems with the transport mechanism, resulting in erratic playback and/or poor sound.*

## AC POWER GUIDELINES

### WARNING

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

The KAV-300cd has superb regulation and does not require a dedicated AC circuit. Avoid connections through extension cords or multiple AC adapters. High quality 15 amp grounded AC strips are acceptable. High quality AC line conditioners or filters can be used if they are grounded and meet or exceed the unit's power supply rating of 100 VA.

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## Connecting the KAV-300cd to Your System

### WARNING

When making connections to this component or any other, make sure the power amplifier is off and the preamplifier is in the 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.

1. Plug the KAV-300cd into a standard wall AC receptacle. The stand-by LED will illuminate.
2. Connect the KAV-300cd output (6) to the appropriate preamplifier input.
3. Push the power button (2) on the front panel or the pwr key on the remote control. To activate the KAV-300cd from the remote, first press the CD key on the remote, then press the red pwr key. When the power LED on the compact disc player illuminates, the KAV-300cd is ready for operation.

The KAV-300cd is equipped with two analog output configurations: Single-ended via RCA connectors, and balanced via XLR connectors. Krell recommends the use of balanced interconnects. Balanced interconnects not only have the ability to minimize sonic loss but also have immunity to induced noise, especially for installations using long cable lengths. Balanced connections have 6dB more gain than single-ended connections. When level matching is critical, keep this specification in mind.

The XLR pin configuration is described below:)

Pin 1	Ground
Pin 2	Non-inverting (0°)
Pin 3	Inverting (180°)

The left and right channel RCA and balanced outputs (6) are labeled on the back panel. Maintain the correct left/right orientation.

### Note

*Both the balanced and single-ended outputs can be used to simultaneously feed different systems.*

## DIGITAL OUTPUTS

The KAV-300cd is equipped with one EIAJ fiber optic (Toslink) and one S/PDIF coaxial digital output. The toggle switch on the rear panel must be set to the ON position in order to send this output to a digital recording device or external D/A processor.

## ADDITIONAL CONNECTIONS

### RC-5 In

This input accepts baseband RC-5 input commands from various remote devices, facilitating custom installations. This allows the KAV-300cd to be controlled via hard-wired signals sent from such units

### 12 VDC Remote Power In

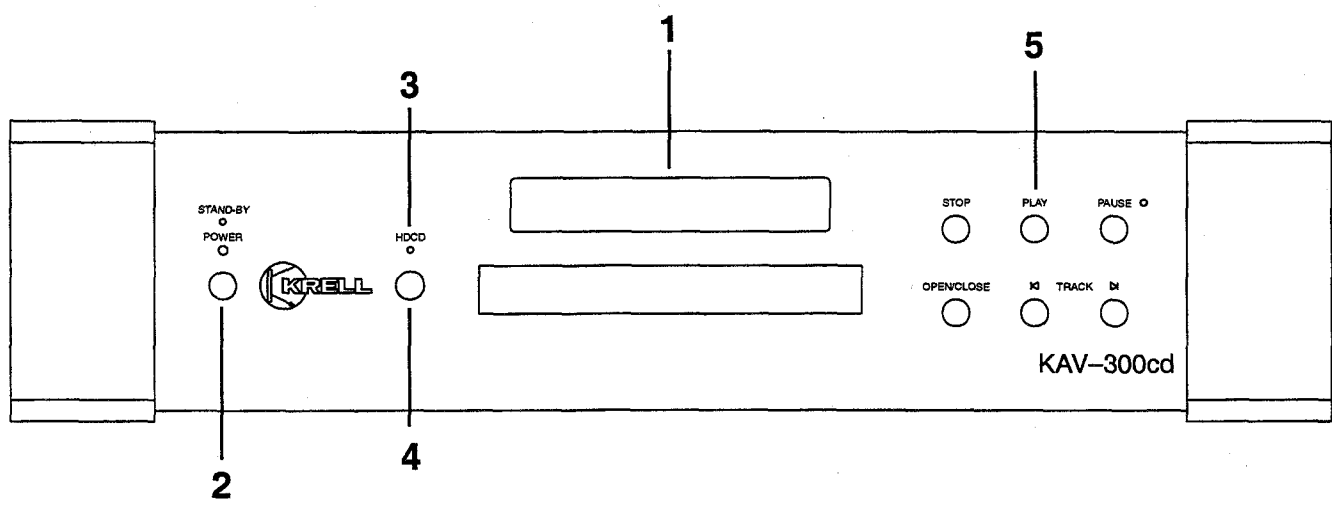
This input accepts 12 volt power on/off signals from other Krell components, as well as other devices that incorporate a 12 volt power on/off trigger output. This allows for remote turn on/off of the KAV-300cd with the power activation of another Krell component as well as other components used in a custom installation.

### Note

*Consult the owner's reference of any component used in a custom installation to take full advantage of the remote capability of the KAV-300cd.*

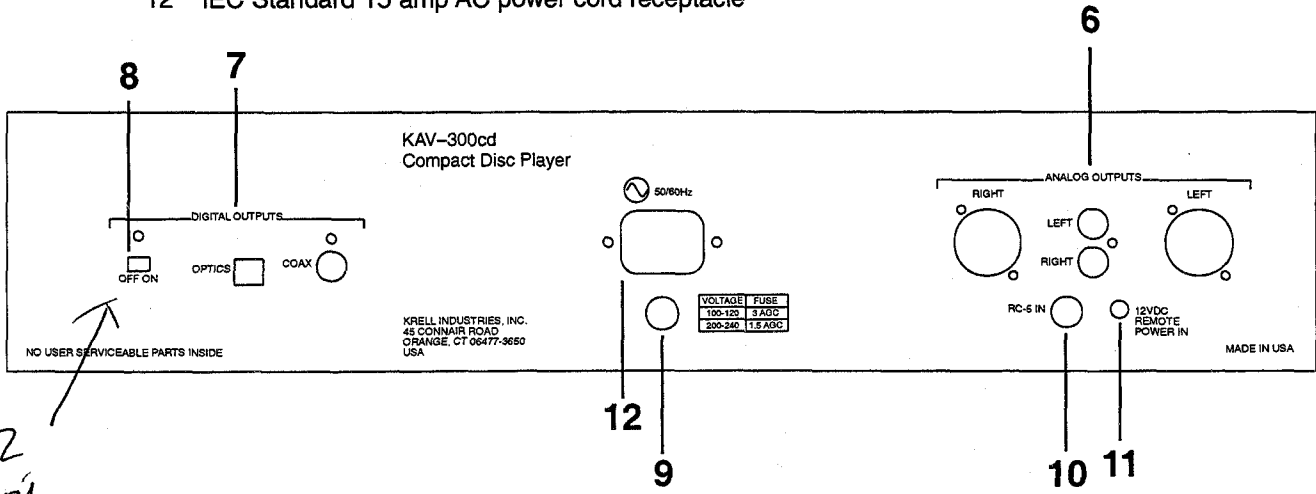
**FIGURE 1 KAV-300cd FRONT PANEL**

- 1 Display Window
- 2 Power On/Off Button
- 3 Function Indicator for HDCD<sup>®1</sup> Decoding
- 4 Infrared Remote Sensor
- 5 Transport Function Buttons for: Stop, Play, Pause, Open/Close, Track Back, and Track Forward



**FIGURE 2 KAV-300cd BACK PANEL**

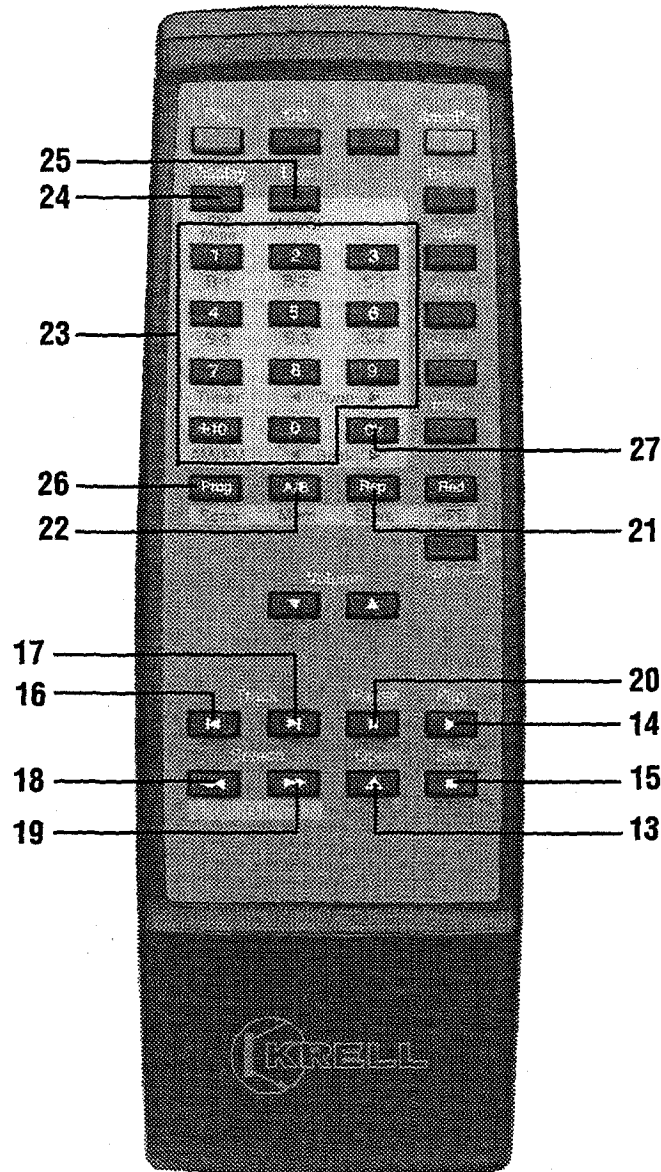
- 6 Left and Right balanced and single ended analog outputs
- 7 Digital outputs: EIAJ optical (Toslink) and SPDIF coaxial
- 8 Digital output activation switch
- 9 Fuse holder
- 10 Baseband RC-5 input
- 11 12 volt trigger
- 12 IEC Standard 15 amp AC power cord receptacle



*4.2 version does not have the switch, CPB*

<sup>1</sup>HDCD<sup>®</sup> is the registered trademark of Pacific Microsonics, Inc.

**THE KAV-300cd REMOTE CONTROL**



- |                       |                                |
|-----------------------|--------------------------------|
| 13 Open Key           | 21 Repeat Key                  |
| 14 Play Key           | 22 A/B Key                     |
| 15 Stop Key           | 23 Direct number Access Keypad |
| 16 Track Back Key     | 24 Display Key                 |
| 17 Track Forward Key  | 25 Dim Key                     |
| 18 Search Back Key    | 26 Track Programming Key       |
| 19 Search Forward Key | 27 Clear Key                   |
| 20 Pause Key          |                                |

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## Front Panel and Remote Control Operation

The KAV-300cd remote control provides complete CD transport functions as well as Krell preamplifier and power amplifier remote functions. A description of the keys and their functions is provided below.

### Note

*Not all keys on the remote control function with the KAV-300cd. Press the CD key on the remote to access CD commands.*

### 13 Open

Press once to open the drawer. Insert a CD, label side up, into the drawer. Press open again. After a momentary pause (while the CD's contents are being scanned), the total number of tracks and the total playing time appear in the display window (1).

### 14 Play

To activate playback from the beginning of the CD, press play after inserting the CD into the drawer. The drawer will close and playback will begin from the first track. If the CD is loaded and the disc contents have been scanned, press play on the front panel (5) or remote control. The disc will start playing from track 1 or the beginning of a programmed track sequence. When an HDCD<sup>®</sup> encoded CD is played, the HDCD<sup>®</sup> LED (3) illuminates, indicating that HDCD<sup>®</sup> decoding is functioning.

### 15 Stop

Terminates CD playback.

### 16 ◀: Track Back

Press once to select and begin playing the track that precedes the current track.

### 17 ▶: Track Forward

Press once to select and begin playing the track that follows the current track.

**18 ◀◀ Search Back** (*remote control only*)  
Press and hold this key to scroll backward through the current track.

**19 ▶▶ Search Forward** (*remote control only*)  
Press and hold this key to scroll forward through the current track.

### 20 Pause

Press once to temporarily suspend playing the current track. To resume playing the track at the point pause was engaged, press pause again or press play.

### 21 Rep (Repeat)

 (*remote control only*)

Press once to repeat the entire disc or track program continuously. Press twice to repeat the current track continuously. Press again to cancel this function. When selecting the desired repeat function, press the repeat key once and REPEAT will appear in the display window (1). Press repeat twice and REPEAT and SINGLE will appear in the display window.

### 22 A/B

 (*remote control only*)

Use this key to create a loop between two pre-determined points within a single track or sequential tracks. To create an A/B loop, start play of a track. When you hear the part that you want as the beginning of the loop, press A/B to insert the start position. Press A/B again to insert the finish position. A/B will automatically begin and continue indefinitely. To delete the A/B program, press A/B again or press the stop key (15).

### 23 Direct Number Access Keypad

 (*remote control only*)

The direct number access keypad makes track selection quick and easy. When using the direct track access function, the selected track will begin play immediately after it is selected. If the track you want to play is numbered 1-9, press the key that corresponds to the track. Use the +10 key to

<sup>1</sup>Krell is the registered trademark of Krell Industries, Inc.



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access tracks numbered 10 or higher. The +10 key selects a track in increments of 10.

**EXAMPLE:** To access track 8, press the number 8 key once. To access track 10, press the +10 key once and the 0 key once. To access track 24, press the +10 key twice and press the 4 key once.

#### **24 Display** (remote control only)

Use this key to cycle the display window (1) between elapsed time of the track currently playing, time remaining in the current track, and total remaining time of the disc or program. Press the CD key on the remote control, then press the mode key until the desired information appears in the display window .

#### **25 Dim** (remote control only)

Use this key to turn the display window (1) on and off. Press the CD key on the remote control, then press the dim key until the display window reaches the desired position.

### **TRACK PROGRAMMING**

#### **26 Prog** (remote control only)

Use this key to select the tracks you would like to hear, in the order in which you would like to hear them. This method of programming is short term and will be cleared when you press the stop key (15) twice. A maximum of twenty tracks may be stored in a program sequence.

#### **27 Clr (Clear)** (remote control only)

Use this key to delete the last entry selected in a programmed sequence. *Track forward, track back, repeat, and pause function normally within a programmed sequence.*

#### **Note**

*Track forward, track back, repeat, and pause function normally within a programmed sequence.*

### **HOW TO WRITE A PROGRAM**

1. Press the program key (26) on the KAV-300cd remote control. PROGRAM will appear in the display window (1).
2. Key in the desired track sequence using the numeric keypad (23). The number of tracks and total playing time of the programmed sequence will appear in the display window (1). Track numbers will appear in the display as they are stored within a programmed sequence.
3. Press the play key (14) to begin playback of the programmed sequence.
4. Press the stop key (15) once to stop playback (but not erase program). Press stop twice to erase a programmed sequence.

#### **Note**

*When the CD is in stand-by mode the programmed sequence is erased.*

### **HOW TO PROGRAM USING TRACK FORWARD AND BACK**

1. Press the program key (26) on the KAV-300cd remote control. PROGRAM will appear in the display window (1).
2. Press the track forward key (17) to select a track. Key in the desired track sequence using the numeric keypad (23). The number of tracks and total playing time of the programmed sequence will appear in the display window (1). Track numbers will appear in the display as they are stored within a programmed sequence.

**EXAMPLE:** Press track forward two times to get back to track 2.

- 
3. Press play (14) to begin playback of the programmed sequence.
  4. Press stop (15) once to stop playback (but not erase the program). Press stop twice to erase the programmed sequence.

### **BATTERY INSTALLATION AND REMOVAL**

***NOTE:** Batteries should be replaced when functions from the remote control become intermittent. The KAV-300cd remote uses two AAA size 1.5 volt batteries.*

1. Remove the back panel to expose the batteries.
2. Remove the old batteries.
3. Install the new batteries, following the battery position diagram on the plastic battery receptacle.
4. Re-install the backplate.
5. Check to make sure the remote control is functioning properly.

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## Warranty

The KAV-300cd has a limited and transferable warranty of five years for parts and labor on circuitry and three years for parts and labor on all mechanical components. Should this 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.

The warranty described on this page shall be in lieu of any other warranty, express 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 this product does not perform as warranted herein, the owner is 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 this product, even if Krell has been advised of the possibility of such damages.

The warranty period begins on the date of retail purchase, as noted on the retail sales slip provided by an authorized Krell dealer or distributor, or on the warranty registration card sent to Krell. In the event adequate proof of purchase date is unavailable, the warranty period will begin on the date the unit was originally shipped from the factory. Krell can determine the original ship date from the serial number.

Transfer of warranty to a second owner occurs automatically. Please contact Krell to have the registration on the warranty changed. When the warranty is transferred, the second owner assumes the remainder of the original warranty period.

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

Freight to the factory is your responsibility. Second-day return freight within the United States (U.S.A.) is included in the warranty. If you have purchased your Krell product out-

side 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 unit 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 units damaged in transit to the factory. You are responsible for filing claims for shipping damages during the return shipment.

Replacement parts and/or products will be furnished 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 unit will void the warranty.**

The operating voltage of this unit 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, complete and return the Warranty Registration Card enclosed in the shipping box within 15 days of purchase. Thank you.***

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## Return Authorization Procedure

### **IMPORTANT**

*If you believe there is a problem with your component, please contact your dealer, distributor, or the Krell factory to discuss the problem before you return the component for repair. To expedite service, you may wish to complete and e-mail the Service Request Form in the Service Section of our website at:*

***www.krellonline.com***

#### To contact the Krell Service Department

**TEL** 203-799-9954  
Monday-Friday  
9:00 AM to 5:00 PM EST

**FAX** 203-799-9796

**E-MAIL** [service@krellonline.com](mailto:service@krellonline.com)

**WEBSITE** [www.krellonline.com](http://www.krellonline.com)

**KAV-300cd**

PRODUCT

PLEASE WRITE YOUR SERIAL NUMBER HERE

To return this 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 from the Krell Service Department.
2. Insure and accept all liability for loss of or damage to this product during shipment to the Krell factory and prepay all shipping charges. Please see the Warranty page in this manual, concerning liability for shipping damage and shipping charges.

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

### **IMPORTANT**

*Use the original packaging to ensure safe transit of this product to the dealer, distributor, or factory. Krell may, at its discretion, return this product in new packaging and bill the owner for such packaging if the product received by Krell was boxed in non-standard 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 this product is returned.*

To purchase additional packaging, please contact your authorized dealer, distributor, or the Krell Service Department.

Krell® Industries, Inc.  
45 Connair Road  
Orange, CT 06477-3650 USA

TEL 203-799-9954, FAX 203-799-9796  
E-MAIL krell@krellonline.com  
WEB SITE www.krellonline.com

# KAV-300cd Front Loading Compact Disc Player

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## Specifications

### FREQUENCY RESONSE

20 Hz-20 kHz +0.0, -18 dB

### SIGNAL TO NOISE RATIO

“A” WEIGHTED

103 dB

### TOTAL HARMONIC DISTORTION (THD)

20 kHz-16 kHz -87 dB

20 kHz -82 dB

### POWER CONSUMPTION

Idle 50 W

### TRANSPORT

Monolithic assembly featuring  
full-size disc clamp

### DAC

20-bit

### ANALOG AUDIO OUTPUT

1 pair balanced via XLR connectors

1 pair single-ended via RCA  
connectors

### DIGITAL AUDIO OUTPUTS

1 pair EIAJ optical  
via Toslink connectors

1 pair S/PDIF coaxial  
via connectors

### REMOTE CONTROL

1 handheld wireless infrared

12 VDC output via a 3.5 mm mini  
connector

RC-5 remote control input via a DC  
power connector

### DIMENSIONS

19w x 4.6h x 15d in.

48.3w x 11.7h x 38.1d cm.

### WEIGHT

**Shipping** 32 lbs, 14.5 kg

**Unit only** 22 lbs, 10 kg

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