



**Instructions for Use** 

**Owner's Reference** 

### Showcase DVD Instructions for Use v 03.0

#### CONTACT INFORMATION

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

#### **WARNINGS**

Do not place the Showcase DVD 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 grids on the top and bottom of the Showcase DVD 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 Showcase DVD to any component. Make sure all cable terminations are of the highest quality, free from frayed ends, short circuits, or cold solder joints.

Caution: Visible and invisible laser radiation. When the cover is open, avoid exposure to beam.

This unit employs a laser. To prevent possible eye injury, only a qualified service person should remove the cover or attempt to service this device. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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.

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## Introduction

Thank you for your purchase of the Krell Showcase DVD.

The Showcase DVD produces a brilliant video image through the use of the high bandwidth circuit architecture, pioneered by Krell in the DVD Standard, and is at the forefront of DVD video technology with HDMI, an optional scalable output stage.

A carefully regulated power supply results in picture stability, even during line fluctuations while the proprietary Krell Digital Video Filter enhances DAC performance. The Krell Current Mode output stage delivers outstanding bass weight, midrange articulation, and high frequency extension.

The wireless infrared remote control, and RS-232 and 12 VDC remote connection options on the back panel allow you to integrate the Showcase DVD into advanced control systems. The user-friendly setup menu provides a variety of audio, video, and access control options for optimum configuration and enjoyment of your Showcase DVD and home theater system.

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

## **Definition of Terms**

Following are the definitions of key terms used in your owner's reference manual.

### Hardware

### Button

Front panel selection device on the Showcase DVD.

#### Key

Remote control selection device on the Showcase DVD.

#### **Video Monitor**

Video screen without a receiver.

#### Television

Video screen with a receiver. The term "television" in this document stands for a video screen with or without a receiver.

### Balanced

Input and Output Connections

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. Balanced connections are more 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. Turn the system off prior to making or breaking singleended connections. Single-ended connections are not recommended for connections requiring long cable runs.

### Operation

#### Off

When the AC power cord is unplugged from the AC power source, the component is off.

#### Stand-by Mode

When the Showcase DVD is connected to AC power, the red standby LED illuminates. This indicates that the component is in stand-by mode, a low power consumption status that keeps the audio and regulator circuits at idle. Krell recommends leaving the component in the stand-by mode when not playing a disc.

#### **Operational Mode**

When the power button on the front panel or power key on the remote control is pressed and the blue power LED illuminates, the component is in the operational mode and ready to play a disc.

### Definition of Terms, continued

Video Technology	<b>Video Signal</b> A signal which includes all the information present in the video pic- ture. There are three basic elements in a video picture: color, bright- ness, and synchronization data.
	<b>Chrominance (C or Chroma).</b> The color portion of a video signal.
	Luminance (Y, Brightness, or Luma). The monochrome portion of a video signal.
VIDEO SIGNAL OPTIONS	<b>Component Video Signal (3 Signals)</b> Three separate signals transmit: luma (Y), blue minus luma (B-Y), and red minus luma (R-Y), resulting in a high quality, film-like picture.
	<b>YPbPr (or PrPbY).</b> One way to designate the three signals used in component video. $Y =$ the luma signal, Pb = the blue minus luma (B-Y) chroma signal, and Pr = the red minus luma (R-Y) chroma signal.
	<b>S-Video Signal (2 Signals)</b> Two separate signals transmit the luma (Y) and chroma (C). S-video signals bypass television circuitry required by composite video, and reduces video noise as well as cross-contamination of luma and chroma signals.
	<b>Composite Video Signal (1 Signal)</b> One signal transmits luma (Y) chroma (color), and synchronization data.
<b>BUILDING THE VIDEO</b>	Interlaced (standard) signals build the video picture in two passes.
PICTURE	<b>Progressive signals</b> build the video picture in one pass. This technology eliminates motion artifacts and produces film-quality pictures. Both the video source and television must be equipped with progressive video connections.

## Unpacking

Follow these steps to safely unpack your Showcase DVD:

- 1. Open the shipping box and remove the top layer of foam. You see these items:
  - 1 Krell Showcase DVD
  - 1 AC power cord
  - 1 12 VDC (12 V trigger) cable
  - 1 remote control
  - 1 CR2025 lithium battery
  - 1 Quick Setup Guide
- 2. Grasp the underside of the foam end-caps that encase the Showcase DVD and lift it straight out of the shipping box.
- 3. Place the Showcase DVD in a safe location and remove the endcaps and protective plastic wrapping.

Only one person needed.

**Notes** 

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

Save all packing materials. If you ship your Showcase DVD in the future, repack the unit in its original packaging to prevent transit damage. See **Return Authorization Procedure,** on page 56, for more information.

## **Placement**

	Before you install the Showcase DVD into your system, review the following guidelines to choose the location for the component. This will facilitate a clean, trouble-free installation. The Showcase DVD does not require any type of special rack or cabinet for installation.
	Place the Showcase DVD on a firm, level surface, away from excessive heat, humidity, or moisture. The Showcase DVD requires at least one inch (2.5 cm) of clearance on each side and at least one inch (2.5 cm) of clearance above and below the component to provide adequate ventilation. Installations inside cabinetry may need extra ventilation.
Note	The Showcase DVD 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 unit. Any unauthorized modifications to the unit or electronics will void the war- ranty.
IMPORTANT	Do not attach enhancement accessories such as rings, mats, or dampers to individual discs. These accessories may interfere with the disc transport, resulting in erratic playback and/or poor performance.
AC Power Guidelines	The Showcase DVD has superb regulation and does not require a dedicated AC circuit. Operate the Showcase DVD only with the power cord supplied.
	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 may be used if they are grounded and meet or exceed the unit's power supply rating of 100 VA.

## **Quick Start**

READ THIS FIRST	The Showcase DVD is shipped ready to play from the factory. The player automatically switches to NTSC or PAL, depending on the disc format. The default standard is preset, and not selectable by the user. To get started, Krell recommends the following routine:
Step 1	Connect the Showcase DVD to AC Power Plug the AC cord into the wall outlet. The red stand-by LED (3) illumi- nates.
Step 2	Choose and Connect the Video Outputs to Your Television Choose the output that matches your television input. The Showcase DVD supports composite, S-Video, interlaced, and progressive scan (480p) component video signals. See <b>Definition of Terms,</b> on page 3, for a detailed description of video signals.
PROGRESSIVE SCAN VIDEO	The progressive PrPbY outputs will provide the best quality pic- ture, because they build video screen content in one pass. To achieve this picture quality, the progressive PrPb Y outputs need to be connected to a television with a 31.5 kHz horizontal scan rate, capable of accepting a progressive signal of 480p or better. Most plasma, D-ILA, DLP, and HDTV televisions have this fea- ture.
Note	Connect the Showcase DVD directly to the television. Set the TV to the correct video input channel.
HDMI CONNECTOR (Optional)	An optional HDMI connector is available for the Showcase DVD. The connector produces the following digital component signals: 480p, 720p, and 1080i.

Step 3	Co to Co put	onnect the Showcase DVD Audio Outputs Your Home Theater System onnect the left and right balanced or single-ended analog audio out- ts to the left and right audio inputs of your amplifier or receiver.
Step 4 (Optional)	Co Yo Us scr Sh and	<b>onfigure the Showcase DVD to Match</b> <b>ur Television</b> e this section of you want to change the picture view on the video reen, and you already have a good working knowledge of the owcase DVD setup menu. For greater detail on how to access d navigate the setup menu, see pages 31-45.
	1.	Press the power button or key (1) to place the Showcase DVD in the operational mode. The blue power LED (2) illuminates. The video screen displays the Krell logo, followed by the appearance of a status window, which indicates the playing condition of the Showcase DVD.
	2.	If a disc is in the transport (12), pause (6) or stop (7) disc play- back.
	3.	Press the setup button or key (17) to access the setup menu. The setup menu multiple-toolbar appears on the video screen.
	4.	Use directional buttons or keys (14) to navigate to the OSD icon on the multiple-toolbar. When an item on the menu is selected, it is highlighted in black and surrounded by cursor arrows.
	5.	Press the down directional button or key to navigate to the main menu options for OSD.
	6.	Press the right directional button or key to select TV SHAPE.
	7.	Press the right button or key again to access the TV shape options in the OSD first sub-menu:
	8.	Select the TV shape you want: 4:3 LETTERBOX, 4:3 PANSCAN, or 16:9.
	9.	Press the setup button or key again to exit the setup menu.



#### Power

- 1 Power Button or Key
- 2 Power LED
- 3 Stand-by LED
- 4 Front Infrared Sensor

#### **Disc Functions**

- 5 Repeat Button or Key
- 6 Pause Button or Key
- 7 Stop Button or Key
- 8 Play Button or Key9 Track Forward and
- Track Back Button or Key 10 Search Forward and
- Search Back Button or Key
- 11 Open/Close Button or Key
- 14 Directional Buttons or Keys
- 15 Enter Button or Key
- 16 Menu Button or Key
- 17 Setup Button or Key
- 18 HDMI Button
- 19 HDMI LEDs

#### Display

- 12 Disc Transport
- 13 Front Panel Display

#### Remote Only

#### **Advanced Disc Functions**

- 20 Audio Key
- 21 Subtitle Key
- 22 Angle Key
- 23 Title Key
- 24 Numeric Keys

#### **Programming Functions**

- 25 A-B Key
- 26 Prog(ram) Key





## **Front Panel Description**

See Figure 1 on page 8

Power	11	Power Button or Key Use this button or key to switch the Showcase DVD from the stand-by to the operational mode.
	2	<b>Power LED</b> The blue power LED illuminates when the Showcase DVD is in the operational mode.
	3	<b>Stand-by LED</b> The red stand-by LED illuminates when the Showcase DVD is plugged into AC power and is in the stand-by mode.
	4	<b>Front Infrared Sensor</b> The infrared sensor receives commands from the Showcase DVD remote control when the IR select switch (37) is in the up position. For proper remote control operation, make sure the infrared sensor is not covered or obstructed.
<b>Disc Functions</b>	5	Repeat Button or Key Use this button or key to activate and deactivate disc repeat options. See also: To Play a DVD or VCD, page 20; To Play an Audio CD, page 24; To Play an MP3 Disc, page 27.
	6	<b>Pause Button or Key</b> Use this button or key to pause disc playback. The phrase PAUSE appears briefly in the status window in the upper left corner of the television. To resume playback, press the pause button or key again, or press the play button or key (8).
	7	<b>Stop Button or Key</b> Use this button or key to stop disc playback. A status window appears in the upper left corner of the television screen, followed by a RESUME temporary feedback field icon. If you are playing a DVD or VCD, press play (8) when the RESUME icon appears, to resume playback from the stop point. If you do not press play while RESUME icon is on the screen, the DVD starts playing from the first title and chapter.
	8	<b>Play Button or Key</b> Use this button or key to begin or resume disc playback.
	9	<b>Track Forward Button or Key</b> <b>Track Forward.</b> Use this button or key to move forward one chapter or track. The mode selected appears in a status window in the upper left corner of the television screen. The front panel display (13) shows the currently playing chapter or track number.

DISC FUNCTIONS, continued

#### 9 Track Forward Button or Key, continued

**Track Back.** Use this button or key to move back one title, chapter, or track. The mode selected appears in a status window in the upper left corner of the television screen. The front panel display shows the currently playing title and chapter, or track number. See also: **To Play a DVD or VCD**, page 20; **To Play an Audio CD**, page 24; **To Play an MP3 Disc**, page 27.

#### 10 Search Forward and Back Buttons or Keys

**Search Forward.** Use this button or key to access the two fastforward playback modes. Use the search forward button or key to switch between the slower and faster modes. On DVD, VCD, or Audio CD playback, the mode selected appears in the status box in the upper left corner of the television screen. Press the play button or key to resume normal playback.

**Search Back.** Use this button or key to access the two fastreverse playback modes when in the play mode. On DVD, VCD, or Audio CD playback, the mode selected appears in the status box in the upper left corner of the television screen. Use the search back button or key to switch between the slower and faster modes. Press the play button or key to resume normal playback. See also: **To Play a DVD or VCD**, page 20; **To Play an Audio CD**, page 24.

#### 11 Open/Close Button or Key

Use this button or key to open and close the disc transport.

#### 12 Disc Transport

The disc transport holds the disc.

#### **13 Front Panel Display**

The front panel display shows currently playing title and chapter or track numbers, elapsed time, repeat mode, and disc status.

#### 14 Directional Buttons or Keys

Use these buttons or keys to navigate the Showcase DVD setup menu, a DVD disc menu, an audio CD, or an MP3 disc menu. Also, use these buttons to view a DVD disc as frame by frame stills.

#### 15 Enter Button or Key

Use this button or key to set select disc menu functions or exit the setup menu.

## Menu Access and Setup Functions

**DISC FUNCTIONS**, continued

#### 16 Menu Button or Key

Use this button or key to access the DVD disc menu. Disc playback pauses automatically when you enter the menu. Use the directional buttons or keys (14) to move through the menu. Press enter to select the desired menu item.

#### 17 Setup Button or Key

Use this button or key to access the Showcase DVD setup menu. The setup menu allows you to customize your Showcase DVD on screen display (OSD), audio soundtrack, and select special features such as access control. Press the setup button again to reveal sub menus, or press the enter key to exit the setup menu. See **Showcase DVD Setup Menu**, pp. 31-54, for information on configuring the Showcase DVD.

#### 18 HDMI Button (Optional)

Use this button to scroll through three output signal choices: 480p, 720p and 1080i.

#### 19 HDMI LEDs (Optional)

The illuminated LED indicates the component video scan resolution in use: 480p, 720p, or 1080i.

## **Remote Control Description**

See Figure 2 on page 8

Battery Installation and Removal	The Showcase DVD remote control uses one CR2025 lithium bat- tery, 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 eyeglass 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, positive (+) 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.		
Notes	Do not use a knife or other sharp object to open the battery compartment; they will scratch the remote control finish.		
	Replace batteries when remote control function becomes intermittent.		
	Remove batteries if the remote control is not used for a long time. Battery leakage can damage the remote control.		
Remote Control-Only Functions	The Showcase DVD remote control provides all the power, standard disc functions, menu access, and menu setup functions available on the front panel. Additional advanced disc and programming functions are accessed only from the remote control. A description of the remote control-only keys for the Showcase DVD follows.		
ADVANCED DISC FUNCTIONS	<b>20</b> Audio Key Press this key to access the audio icon on the multiple-toolbar menu. Use the down directional button or key (14) to cycle between OFF or the languages available on the disc soundtrack. The last language scrolled to is automatically selected, and becomes active after the transport (12) is opened and closed. Navigate to the audio sound category of the osp menu for an expanded view of the languages available.		

ADVANCED DISC FUNCTIONS, continued

#### 21 Subtitle Key

Press this key to access the subtitle icon in the multiple-toolbar menu. Use the down directional button or key (14) to cycle between OFF or the subtitle languages available on the disc soundtrack. The last subtitle language scrolled to is automatically selected, and becomes active after the transport (12) is opened and closed. Navigate to the audio mode category of the OSD menu for an expanded view of the subtitle languages available.

#### 22 Angle Key

Use this key to select alternate camera angles, when they are available on the disc.

#### 23 Title Key

Press this key to access the title which is playing.

Many discs have only one title.

#### 24 Numeric Keys

Press a numeric key to select a disc chapter, title, or track during playback. The setup menu opens with the cursor at the title and chapter number or track number that is playing. Press the numeric key for the next chapter, title, or track number you want to play. Playback resumes at the selected title, chapter, or track.

If a title, chapter, or track is not available on the disc, the number you select is not displayed on the menu.

#### 25 A-B Key

Press this key to define the start of a continuous loop. Press again to define the end of a continuous loop. Playback begins immediately and continues until you press the A-B key a third time, to clear the loop. See *How to Create an A-B Loop*, on page 49.

#### 26 Prog(ram) Key

Press this key to access the favorite track selection (FTS) icon in the multiple-toolbar menu. Select and playback chapters, titles, or tracks in a particular sequence. See also: **How to Write a Title/Chapter Program,** for a DVD or VCD, on page 46; **How to Write a Track Program for an Audio CD,** on page 48.

Note

Note

PROGRAMMING FUNCTIONS

#### Figure 1 The Showcase DVD Back Panel 40 41 32 35 36 номі ост ON KRELL VIDEO OUTPUTS -12VDC-AUDIO SYNC OFF Showcase DVD RS-232 NALOG OU OOLEFT RIGHT Œ Ο 50/60Hz NO USE MADE IN USA RIGHT 27 28 30 29 31 33 34 37 38 39

#### Analog Audio Outputs

- 27 Left and Right Balanced Audio Outputs
- 28 Left and Right Single-ended Audio Outputs

#### **Interlaced Video Outputs**

- 29 Composite Video Output
- 30 S-Video Video Output
- 31 Component Video Output (Y, Pb, Pr)

#### Progressive Scan Video Output

32 Progressive Scan Video Output, (Pr, Pb,Y)

#### **Digital Audio Outputs**

- 33 Optics Digital Output
- 34 Coaxial Digital Output

#### **Remote Back Panel Connections**

- 35 RS-232 Communication Port
- 36 12 VDC In/Out (12 V Trigger)
- 37 IR Select Switch
- 38 Back Infrared Sensor

#### Power

39 IEC Connector

#### HDMI Connection (Optional)

- 40 Audio Sync Switch
- 41 HDMI Out

## **Back Panel Description**

See Figure 3 on page 14

Analog Audio Outputs	27	Left and Right Balanced Audio Outputs The Showcase DVD is equipped with one pair of left and right balanced analog audio outputs via XLR connectors.
	28	Left and Right Single-ended Audio Outputs The Showcase DVD is equipped with one pair of left and right single-ended analog audio outputs via RCA connectors.
Interlaced Video Outputs	29	<b>Composite Video Output</b> The Showcase DVD is equipped with a composite video output via an RCA connector. Composite video uses one wire to convey the video signal.
	30	<b>S-Video Video Output</b> The Showcase DVD is equipped with an S-video output via a 4 pin mini-DIN connector. Composite video uses two wires to convey the video signal.
	31	<b>Component Video Output (Y, Pb, Pr)</b> The Showcase DVD is equipped with a component video output via RCA connectors. Component video uses three wires to con- vey the video signal.
Progressive Scan Video Outputs	32	<b>Progressive Scan Video Outputs (Pr, Pb, Y)</b> The Showcase DVD is equipped with a progressive video output via RCA connectors. Progressive video uses three wires to con- vey the video signal.
Notes	The the use	e Showcase DVD automatically switches to NTSC or PAL, depending on disc format. The default standard is preset, and not selectable by the r.

Digital Audio Outputs	<ul> <li><b>33</b> Optics Digital Output The Showcase DVD is equipped with one EIAJ optics digital audio output via a TosLink connector. </li> <li><b>34</b> Coaxial Digital Output The Showcase DVD is equipped with one S/PDIF coaxial digital audio output via an RCA connector. </li> </ul>
Back Panel Remote Connections	<b>35 RS-232 Communication Port</b> The Showcase DVD is equipped with an RS-232 communication port, which receives messages from a computer-based control system, providing more intelligent control of the Showcase DVD. For more information, see <i>RS-232 Port: Sending Commands</i> <i>and Interpreting Data,</i> the developer's reference on the Krell website at www.krellonline.com.
	<b>36 12 VDC Out and In</b> The 12 VDC out and in connections allows you to control the operational and stand-by modes of components with 12 V triggers, to easily coordinate allowing whole systems or parts of systems.
	<b>Output.</b> The 12 VDC output sends a 12 Volt power on/off signal to other Krell components via a 12 V cable, as well as to other devices that incorporate a 12 V power on/off trigger input.
	<b>Input.</b> The 12 VDC input receives 12 Volt power on/off signals from other Krell components and devices that incorporate a 12 V trigger.
Notes	When the Showcase DVD is in the operational mode, 12 VDC output provides 12 V of DC output. When the Showcase DVD is in the stand-by mode or off, DC output is 0 V.
	12 VDC Out (12 V trigger) current is limited to 30 mA.
	Consult the owner's manual of each component used in a custom installa- tion to take full advantage of the Showcase DVD's remote capability.
	<b>37 IR Select Switch</b> Use this switch to activate the front or Back Infrared Sensor (38).
	<b>Front.</b> The switch in the up position indicates that the front infrared sensor is active. <b>Rear.</b> The switch in the down position indicates that the back infrared sensor is active.

#### Back Panel Description, continued

BACK PANEL REMOTE CONNECTIONS, continued 38 Back Infrared Sensor

This sensor receives commands from the Showcase DVD remote control when the IR select switch (37) is in the down position.

#### 39 IEC Connector

The Showcase DVD is equipped with a standard female IEC power connector, for use with the AC power cord.

## **HDMI Connection**

(Optional)

**Power** 

#### 40 AUDIO SYNC SWITCH

Use this switch to synchronize audio and video when using the HDMI output (41). Turn this function off, if you are not using the HDMI output.

#### 41 HDMI OUT

Digital video output that interfaces with an A/V receiver or a video monitor equipped with an HDMI input.

# Showcase DVD Connections to Your System

Using Balanced Connections	Krell recommends using balanced interconnect cables. Balanced interconnect cables not only can minimize sonic loss but are also less sensitive 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.
Connection Steps	This section provides information about connecting your Showcase DVD to other components in your system. The Showcase DVD is equipped with a variety of connection options, for easy integration into your home theater system.
	Follow these steps to connect the Showcase DVD to your system.
	1. Make sure all power sources and components are off before con- necting inputs and outputs.
	2. Neatly organize the wiring between the Showcase DVD and all system components. Separate AC wires from audio cables to prevent hum or other unwanted noises from being introduced into the system.
	3. Match and connect the video outputs from Showcase DVD to the video inputs of the television. The Showcase DVD supports composite, S-Video, and component interlaced video signals and progressive (480p) component video signals. See <b>Definition of</b> <i>Terms, on page 3, for more information on video signals.</i>
PROGRESSIVE SCAN VIDEO	The progressive PrPbY outputs will provide the best quality pic- ture, when they are connected to a television capable of accept- ing a progressive signal of 480p or better. This includes most plasma, D-ILA, DLP, and HDTV televisions.
Note	To use the progressive scan video outputs on the Showcase DVD, the tele- vision must have a 31.5 kHz horizontal scan rate and a progressive (480p) video input.
HDMI CONNECTOR (Optional)	An optional HDMI connector is available for the Showcase DVD. The connector uses a single cable to support multiple audio and multiple- video cables, and produces the following digital component signals: 480p, 720p, and 1080i.

### Showcase DVD Connections to Your System, continued

	<ol> <li>Connect the balanced (27) or single-ended (28) analog audio outputs to your loudspeakers.</li> </ol>
	<ol> <li>Connect the optics digital audio (33) or coaxial audio (34) digital output to your loudspeakers.</li> </ol>
Note	DTS audio playback is available only from the digital outputs.
	<ol> <li>Plug the AC power cord into the IEC connector (39) on the back panel, then plug the AC power cord into the wall socket. The red stand-by LED (3) on the front panel illuminates.</li> </ol>
Note	When powering up any system, always turn amplifiers on last. When powering down, always turn amplifiers off first.

## Showcase DVD Operation

	This section provides information about operating the Showcase DVD. The Showcase DVD is shipped ready to play. After the player is connected to the television and other system components, and plugged into AC power, it is ready for operation.
Compatible Discs	The Showcase DVD is a Region 2 player which plays the following disc formats: DVD, DVD-R, CDDA, CD-R, CD-RW, DVD+RW, MP3, and VCD.
Notes	Krell recommends leaving the Showcase DVD in the stand-by mode when not playing a disc.
	Do not attach enhancement accessories such as rings, mats, or dampers to individual discs. These accessories may interfere with the disc transport, resulting in erratic playback and/or poor performance.
	Adjust the volume level through your system volume control.
To Play a DVD or VCD	All functions outlined on pages 8-11 are available when you play a DVD or VCD.
	<ol> <li>Press the power button on the front panel or the power key (1) on the remote. The blue power LED (2) illuminates, and the red stand-by LED (3) turns off. The Krell logo and a status window appear on the television screen. The Showcase DVD is in the operational mode, and the disc transport (12) is active.</li> </ol>
Screen in Operational Mode	
<u>Status window</u>	

To Play a DVD or VCD, continued	2. Press the open/close button or key (11) to open the disc transport.
	3. Place the disc on the transport.
	<ol> <li>Press the open/close button or key again to close the disc trans- port. Playback begins from the first title or track. The front panel window displays READING and INFO.</li> </ol>
	5. The phrase INFO remains on the front panel display window until you press the enter (15) or play button or key.
	<ol><li>The Showcase DVD starts playing the movie and the front panel window displays the time, the title and chapter, or the track.</li></ol>
	7. Press the stop button or key (7) to end disc playback.
	<ol> <li>To turn the Showcase DVD off, press the power button on the front panel or the power key on the remote. The red stand-by LED illuminates and the Showcase DVD is in the stand-by mode.</li> </ol>
	See <b>Front Panel Description,</b> on page 9, and <b>Special Operations,</b> on page 46, for more information on disc playback options.
STATUS WINDOW	The status window icon reports the current operating condition of the Showcase DVD, and appears in the upper left portion of the television screen. If a disc is playing, the function, title, chapter, or track as well as time elapsing is displayed in the icon.
	To suppress the status window, see page 38.

Krell Showcase DVD

#### DVD AND VCD FUNCTIONS

All functions listed under *Front Panel Description,* on pages 9-11 and under Remote-only, on pages 12-13 are available when you play a DVD or VCD.

#### 5 Repeat Button or Key

Press this button or key to repeat a title or chapter, or an entire disk:

CHAPTER REPEAT	Press once to repeat the currently playing
	chapter.
TITLE REPEAT	Press twice to repeat all chapters in current title.
REPEAT	Press three times to repeat the entire disc.
REPEAT OFF	Press four times to clear the repeat function.

The selected repeat option appears briefly in the temporary feedback field icon, in the upper left corner of the television screen. The phrase REPEAT appears in the front panel display (13).

When repeat is off, there is no temporary feedback field icon in the upper left corner of the television screen, and the phrase REPEAT disappears from the front panel display.

#### 9 Track Forward and Track Back Buttons or Keys

Press this button or key to move to another title or chapter, or move to the beginning of the current title or chapter. Direction and title or chapter number are displayed on the front panel display window (13), or in a status window on the television screen.

**Track Forward.** Press the track forward button or key firmly during playback, to move to the next title or chapter. Press track forward button or key briefly during playback, to return to the beginning of the current title or chapter.

**Track Back.** Press the track back button or key firmly during playback, to move to the last title or chapter. Press the track back button or key briefly during playback to return to the beginning of the current title or chapter.

To move to any title or chapter, enter the title or chapter number using the numeric keys (24) on the remote control. DVD AND VCD FUNCTIONS, continued

#### 10 Search Forward and Back Buttons or Keys

Press this button or key to search forward or backward through the disc at an advanced speed. There are two fast-forward playback modes: x 4 and x 32.

Press once and the phrase X4 appears in the status window in the upper left corner of the television screen. Press again and the phrase X32 appears in the status window in the upper left corner of the television screen.

Press the play button or key (8) to resume normal playback.

## To Play an Audio CD

- 1-3.Follow the first three steps under *To Play a DVD or VCD* on pages 20-21.
- Press the open/close button or key again to close the disc transport. The front panel window displays READING and the television screen displays the audio CD menu. Playback begins from the first track.

			A	udio Disk Moo
Play	Track	Time	Total tracks	Total tim
	1	0.00.02	13	1.09.31
FTS	100	Off		
Track				
Program				

- 5. As the Showcase DVD plays the audio CD tracks, the television screen and the front panel display window continually report the current track and time elapsed on the track.
- 6. Playback stops at the end of the disc. To stop playback at any other time, press the stop button or key (7).

To turn the Showcase DVD off, see **To Play a DVD or VCD**, Step 8, on page 21.

Audio Mode Menu on Screen

AUDIO CD	
<b>FUNCTIONS</b>	

The following functions are available when you play an audio CD:

#### 5 Repeat Button or Key

Press this button or key to repeat a track selection, or an entire disc.

REPEAT TRACK Press once to repeat the currently playing track. REPEAT TRACK appears in the audio CD menu on the television screen.

REPEAT DISC Press twice to repeat an entire disc. REPEAT DISC appears in the audio CD menu on the video screen.

To deactivate REPEAT, press the repeat button or key a third time. When repeat is off, there is no repeat phrase on the television screen.

6 Pause Button or Key, 7 Stop, 8 Play Button or Keys For descriptions of these functions, see Front Panel Description, on page 10.

#### 9 Track Forward and Track Back Button or Key

Press this button or key to move to another track or move to the beginning of the current track. Direction and track number are displayed on the front panel display window (13), or in a status window on the television screen.

**Track Forward.** Press the track forward button or key firmly during playback to move to the next track. Press track forward button or key briefly during playback return to the beginning of the current track.

**Track Back.** Press the track back button or key firmly during playback to move to the last track. Press track back button or key briefly during playback to return to the beginning of the current track.

To move to any track, enter the track number using the numeric keys (24) on the remote control.

AUDIO CD FUNCTIONS, continued

#### 10 Search Forward and Search Back Button or Key

Press this button or key to search forward or backward through the disc at an advanced speed. Speed and direction are displayed on the front panel display window (13), or in a status window on the television screen. When the search begins, the sound is partially muted. To end a search, press play (8) to resume playback or press stop (7) to stop playback.

 Hold down this button or key for approximately 1 second during playback, to search the disc at X4 the normal speed

- Hold down the button or key again, to search at X8 speed.
- Hold down the button or key a third time, to return to the normal speed.
- 14 Directional Buttons or Keys

For descriptions of this function, see *Front Panel Description,* on page 10.

#### 25 A-B Key

See How to Create an A-B Loop, on page 49.

26 Program Key See How to Write a Track Program for an Audio CD, on page 48.

### **MP3 Disc Formats**

The Showcase DVD supports the following MP3-CD formats (ISO 9660 format):

- A maximum of 30 characters
- Nested director up to eight levels
- A maximum ALB number of 32
- VBR bit-rate supported
- Sampling frequencies supported: 32, 44.1, and 48 k Hz.
- Supported bit rates: 32, 64, 96, 128, 192, and 256 (kbps).

The Showcase DVD does not support the following formats:

- Files including \*.WMA, \*.AAC, \*.DLF, \*M3U, \*PLS
- Chinese file names
- Non-session closed discs
- Discs recorded under UDF format

It is normal to experience an occasional "skip" while listening to MP3 files. Digital-out is not active during MP3 disc playback, in compliance with SDMI.

Notes

MP3 Disc Formats, continued
 Only digital audio music will play, due to the recording nature of Digital Audio MP3 (DAM).
 Disc reading time may exceed ten seconds, if there are a large number of songs compiled on one disc.
 Only the first session of multi-session discs is supported.
 To Play MP3 Discs
 1-3.Follow the first three steps under To Play a DVD or VCD above, on pages 20-21.

 Press the open/close button or key again to close the disc transport. Playback begins from the first title or track. The front panel window displays READING and the video screen displays the MP3 menu.



- The Showcase DVD starts playing the MP3 tracks, and the front panel window displays the current track and time elapsed on the track
- 6. Press the stop button or key (7) to end disc playback.

To turn the Showcase DVD off, see Step 8 on page 21.

#### **MP3 Menu on Screen**

MP3 DISC	
<b>FUNCTIONS</b>	

The following functions are available when you play an MP3 disc:

#### 5 Repeat Button or Key

Press this button or key to repeat a track or an album.

REPEAT TRACK Press once to repeat the current track. REPEAT TRACK appears on the television screen. Press the repeat button or key again to repeat

an album. REPEAT ALBUM appears in the MP3 menu on the television screen.

REPEAT DISC Press the repeat button or key a third time to repeat an entire disc, REPEAT DISC appears in the MP3 menu on the television screen.

To deactivate REPEAT, press the repeat button or key a fourth time. When repeat is off, there is no repeat phrase on the television screen.

#### 6 Pause Button or Key, 7 Stop, 8 Play Button or Keys For descriptions of these functions, see Front Panel Description, on page 10.

#### **9** Track Forward and Track Back Buttons or Keys This function allows you to move to the next or previous disc album or track. Both the front panel window and the MP3 menu display the current track information.

- 1. Press the up or down directional button or key (14) to scroll through available albums.
- 2. Press the forward or backward track button or key (9) to scroll through available tracks.

You can also select an album or track using the numeric keys:

In the stop mode, use the numeric keys to select the ALBUM. In the play mode, use the numeric keys to select the TRACK.

#### 14 Directional Buttons or Keys

For descriptions of this function, see **Front Panel Description**, on page 10.



## Interpreting Temporary Feedback Field Icons

The temporary feedback field icon appears in the upper left portion of the television screen, displaying information about the status of the disc. If the setup menu multiple-toolbar is displayed, the icon is integrated in the toolbar *(not shown)*. Icons describe the following Showcase DVD functions:



Interpreting Temporary Feedback Field Icons, continued

#### ACTION PROHIBITED

A box containing an X appears on the television screen, when a selected command is not permitted by the player or the disc. The gray area in the action prohibited box displays the specific action requested.

Some discs only allow limited function operation during playback.

#### RESUME

The resume feature applies to the disc currently in the transport well as the last four discs played. To start playback of a disc from the point where it was last stopped, press play (8) when the resume icon appears on the screen.

## **Setup Menu Overview**

This section explains how to access and navigate the setup menu and how to select functions. The setup menu is comprised of:

- a multiple-toolbar at the top of the screen
- toolbar icons, each with a unique set of functions, accessed through a main menu
- a series of sub menus for each function
- a help-text bar at the bottom of the screen

Although all functions in the setup menu are optional and may be set up at your convenience, Krell encourages you to use the setup menu to optimize the performance of the Showcase DVD within your system in this sequence:

- 1. Access the setup menu by pressing the setup button or key (17). See pages 32–33.
- 2. Familiarize yourself with the navigation conventions. See page 34.
- 3. Select the OSD icon on the toolbar. See page 35.
- Configure the OSD functions. See pages 36–38.
   Initially, you may wish to change the picture view on your video screen, before playing your Showcase DVD. See Example: To Change the TV Shape, on page 40.
- Access other toolbar icons and their functions. See page 42.
   For detailed information on limiting child access and designating authorized discs for viewing, see page 50.
- 6. Exit the setup menu by pressing the enter button or key (15).

Disc playback pauses automatically, when you access the OSD menu.

A temporary feedback field icon containing an X is displayed on the video screen, either alone or within the toolbar menu, if the disc chapter or track you are playing prohibits access to the setup menu. For more information, see **Interpreting Temporary Feedback Field Icons,** on page 29.

Note

## Showcase DVD Setup Menu

# To Access the Setup Menu

Follow these steps to access the setup menu, after the Showcase DVD is connected to your system, and in the operational mode. See *Connecting the Showcase DVD to Your System,* on page 18.

1. Pause (6) or stop (7) the disc, or make sure that it is not in the transport (12). A status window appears on the television screen.



#### Krell Showcase DVD

To Access the Setup Menu, continued

2. Press the setup button or key (17). The setup menu appears, including the multiple-toolbar, the cursor arrows, and the help-text bar. The status window continues to be displayed.



### Navigation Conventions

#### MENU COLOR

Color indicates selection status in the setup menu. An active menu item is highlighted in black and available items are blue. Unavailable items are either white or do not appear on the screen.

#### HELP-TEXT BAR

The help-text bar describes the active toolbar icon. The factory default is ON. To turn the help-text bar off, see page 39.

#### CURSOR ARROWS

On screen cursor arrows select all functions and their options. When the cursor arrows are at a menu item, that item is active and highlighted in black.



Use the directional buttons or keys (14) to move the cursor arrows to the menu item you want. The cursor will skip over unavailable (white in color) menu items. Once the cursor arrows are at a menu item, the menu item is selected. There is no need to press the enter button or key to set a selection.

The cursor arrows move left and right, along the multiple-toolbar. When the cursor arrows are on the toolbar icon at the far right, press the right directional arrow button or key to display more toolbar icons. If the cursor arrows do not travel, there are no more toolbar icons to display.

The cursor arrows move up and down between the multiple-tool bar menu and the main menu. Within the main menu, the cursor arrows move left, right, up, or down.

Within the main menu, when the cursor arrows move to the right, they open sub menus with options. Some sub menus access additional sub menus.

### On Screen Display (OSD) Menus

**OSD Main** 

After you access the setup menu, navigate to the OSD multipletoolbar icon. Press the down directional button or key (14) and the OSD main menu appears.

	05	SD «ť	📀 i¢
	222 V		<i>t</i> =
V	<b>.</b>	TV Shape	4:3 panscan
		Black level shift	On
udio (sound)	-0	Video shift	÷
		Color settings	2 Rich
udio mode (language)		Personal color	Settings
		Digital Crystal Clear	Settings
pecial functions	Ô	Video Output	YUV

Left column, main menu, shows categories available under the OSD toolbar icon

#### **OSD MAIN MENU**

The on screen display (OSD) main menu is comprised of 3 sections: a left column, a middle column, and a right column. Function categories are displayed in the left column, and include:

- -TV
- Audio (sound)
- Audio mode (language selection)
- Special features

The center column contains a list of functions for each category. The right column displays the function selected, and links to one or more sub menus that optimize each function.

On Screen Display (OSD) Menus, continued	A description of the OSD menu functions follows:
	TV SHAPE
TV Category: Adjusts the picture view	Change the aspect ratio of the video output to match your moni- tor. The choices are:
	LETTERBOX A widescreen picture with black bars at the top and bottom of the screen. Use with a 4:3 TV.
	PAN SCAN A full-height picture with the sides trimmed. Use with a 4:3 TV.
	16:9 A widescreen picture. Use with a 16.9 TV.
	BLACK LEVEL SHIFT (NTSC ONLY) Select ON to enrich the contrast of the video signal, with a NTSC format television only. The PAL format does not have a pedestal or setup for black level shift. The choices are: ON and OFF.
	VIDEO SHIFT Use the sliders to scroll the picture to the left or right on the screen. The factory default centers the picture on the screen.
	COLOR SETTINGS Choose one of five color settings, numbered 1 through 5. Choices 2 through 5 are preset options. Choice 1 is user-adjustable using the personal color feature under toolbar icon OSD, function name TV SHAPE:
	SettingDescription1Personal2Rich3Natural4Soft5Animation
	PERSONAL COLOR Fine tune selected color settings to your taste. Navigate to COLOR SETTINGS to adjust the saturation, brightness, and contrast of the picture.

On Screen Display (OSD) Menus, continued	DIGITAL CRYSTAL CLEAR Adjust the appearance of the picture. Navigate to SETTINGS and adjust:
TV Category: Adjusts the picture view, continued	CHROMA DELAY Adjusts the difference between signals, affecting hue and sat- uration.
	GAMMA Adjusts the brightness, changing the contrast between light and dark.
	SHARPNESS Values rang from +3 (very sharp) to -3 (soft).
	DCDi Directional Correlation Deinterlacing (DCDi) eliminates jagged diagonal edges in a video picture.
	VIDEO OUTPUT (INTERLACED ONLY) Adjust the video output standard. The choices are RGB or YUV. The European version of YPbPr is YUV. The selection takes effect when you exit the menu.
Audio Category: Adjusts the Sound	DIGITAL OUTPUT Adjust the digital audio output. The choices are: OFF, PCM ONLY, and ALL. The factory default is ALL, which means that the coaxial output is on. If you are not connecting to a device with a digital input, change the setting to OFF. If you are not connecting to a digital multi-channel decoder, set the digital output to PCM ONLY. PCM The abbreviation for pulse code modulation, a digital repre- sentation of an audio signal.
	ANALOG OUTPUT Adjust the analog audio output to match your system's playback capability. The choices are STEREO, DOLBY SURR-COMPAT, or 3D SOUND.
	NIGHT MODE This function compresses peaks in the audio playback, and opti- mizes the dynamics of the sound for low volume playback. The choices are ON and OFF.
	KARAOKE VOCAL Use the DVD player to downmix a multi-channel Karaoke sound track to the audio outputs (2-channel sound). Use on only when a multi-channel karaoke DVD is being played, otherwise turn this func- tion OFF. The choices are: ON and OFF.

On Screen Display (OSD) Menus, continued

Audio Category: Adjusts the Sound, continued

Audio Mode Category: Adjusts the Language

#### PCM OUTPUT

Adjust the sampling rate of the PCM (pulse code modulation) output. The choices are: 48 kHz and 98 kHz.

#### AUDIO LANGUAGE

Select a language from the list provided. If available on the disc, audio will play in the selected language. If the selected language is unavailable, audio will be in the first spoken language on the disc. The languages can be selected from the toolbar audio icon, where the languages show up as abbreviations.

#### SUBTITLE

Select a subtitle language from the list provided. If the subtitle function is available on the disc, subtitles:

- appear on the television screen in the language selected
- are identified in the help-text box, if it is active
- show up as abbreviations on the toolbar under the subtitle icon

after you resume disc playback. If the selected subtitle language is unavailable, subtitles will appear in the first subtitle language on the disc. The subtitles can be selected from the toolbar audio icon, where the subtitles show up as abbreviations.

The Showcase DVD resets the subtitle icon in the multiple-menu toolbar to OFF when it is in the stand-by mode.

MENU

Displays the setup menu in English, Spanish, or French.

#### Special Functions Category:

ACCESS CONTROL

Create, confirm, or change a 4-digit access code. The designated 4-digit code must be entered in order to playback discs. The access control system will only operate a DVD disc which is programmed with access code software.

#### STATUS WINDOW

Displays the current status of the Showcase DVD. When this feature is enabled, the temporary feedback icon and the toolbar menu appear if the disc is stopped. The factory default is ON. Select OFF to suppress the icon and toolbar.

On Screen Display (OSD) Menus, continued

Special Functions Category: continued

#### LOW POWER STANDBY

Dims the television screen when the pause selection is active. The function starts automatically after the Showcase DVD is in the pause mode for 15 minutes.

#### BIT RATE INDICATOR

Displays bit rate information for video and audio during playback of DVD and SVCD discs. The choices are ON and OFF.

#### PLAYBACK CONTROL (PBC)

Access the menu on a VCD, gives navigation information about MP3 files, or allows the viewing of computer discs. If a VCD is programmed for PBC, this function must be ON in order th access the PBC menu. The choices are: ON and OFF.

#### HELP TEXT

View a description of a toolbar icon, when the icon is selected. The description appears in a help menu along the bottom of the screen. The choices are: ON and OFF. The factory default is ON.

## Example: To Change the TV Shape

The example below describes how to access a function and change it, using the the OSD main menu and TV SHAPE function and sub menus as an example.

After accessing the setup menu:

- 1. Select the toolbar menu icon OSD.
- 2. Press the down directional button or key (14). The osp main menu appears. The main menu has three columns: left, center, and right. The cursor arrows are in the left column, highlighting the TV category.

	OSI OSI	) «ť	3	ı¢
OSD icon	- <u></u>			
Cursor arrows at V category	(2)	TV Shape	4:3 panscan	
		Black level shift	On	
		Video shift	• • •	
		Color settings	2 Rich	
	<b></b>	Personal color	Settings	
		Digital Crystal Clear	Settings	
	Ô	Video Output	YUV	
	Left column	Center column	Right column	

- Press the right directional button or key to access the function TV SHAPE.
- 4. Press the right directional button or key a second time to access the picture view function in the right hand column. A sub menu appears, displaying the following options: 4:3 LETTERBOX, 4:3 PANSCAN, and 16:9.

#### Main Menu Screen

Example: To Change the TV Shape, continued

Sub Menu Screen



- 5. Choose a picture view. The video screen will show the picture you select, if the television supports the format.
- 6. After selecting the picture view, you may wish to navigate through the main menu to select other osp functions.
- 7. Exit the setup menu by pressing the setup button or key.

<b>Multiple-toolbar</b>	
lcons	

Located near the top of the video screen, the multiple-tool bar in the setup menu uses a set of icons to quickly access and change functions the Showcase DVD performs, if the disc you are playing has been programmed to allow access.

#### **TOOLBAR ICON LIST**

There are three toolbar menus:

Toolbar 1 On screen display (OSD) Subtitle Audio language Color Sound Toolbar 2 Step (frame by frame) Slow motion Fast motion Camera angle Zoom Toolbar 3 Title Chapter Time search FTS (favorite track selection)

Press the setup key (17) once to scroll through Toolbar 1, Toolbar 2, and Toolbar 3. When there is no disc in the transport, only Toolbar 1 is accessible.

There is an abbreviated phrase below each toolbar icon. This phrase is the function that is active when the toolbar icon is selected. Scroll through the list of abbreviated phrases using the down directional button or key (14). The last function scrolled to is automatically selected. Some functions do not take effect until the transport (12) is opened and closed (11).

A description of each icon follows:

## Multiple-toolbar Icons,

**Toolbar 1 on Screen** 



#### **TOOLBAR 1**

#### ON SCREEN DISPLAY (OSD)

The user preferences settings in the setup menu. The on screen display (OSD) enables you to adjust picture, sound, language and access control functions. See page 35 for more information.

#### SUBTITLE

The current subtitle language. Scroll through the list of available subtitles. The Showcase DVD resets the subtitle icon in the multiplemenu toolbar to OFF when it is in the stand-by mode. See page 38 for more information.

#### AUDIO LANGUAGE

The current audio language. Scroll through the list of languages available on the disc and audio will play in the selected language. See page 38 for more information.

#### SMART COLOR

Scroll through one of five color settings, numbered 1 through 5. Choice 1 is user-adjustable. See page 36 for more information.

#### SOUND MODE

Adjust the analog audio output. See page 37 for more information.



#### **TOOLBAR 2**

**Toolbar 2 on Screen** 

FRAME BY FRAME

View a DVD OR VCD frame by frame, either forward or backward. Press the down directional button or key (14) to access the frame by frame box. Press the right directional button or key to move forward in the disc, frame by frame. Press the left directional button or key to move backward on the disc, frame by frame.

Multiple-Tool bar Icons, continued

TOOLBAR 2, continued

#### SLOW MOTION

View a DVD OR VCD in slow motion, either forward or backward on the disc. Press the down directional button or key (14) to access the slow motion settings selection box: -1/8, -1/2, -1/4, 0,1/4, 1/2, 1/8. The selected speed is highlighted in black. When you exit the selection box, the disc plays at the speed you selected.

#### FAST MOTION

View a DVD or VCD in fast motion, either forward or backward on the disc. Press the down directional button or key (14) to access the fast motion settings selection box: -32, -8, -4, < 1 > 4, 8, 32. The selected speed is highlighted in black, and starts to play immediately upon selection. The selected speed continues to play when you exit the selection box. To return to normal playback speed, access the fast motion settings selection box again, and highlight the number 1.

#### CAMERA ANGLE

If the disc currently playing contains scenes recorded from different camera angles, the angle icon displays the angle being shown and displays the number and kind of angles you can select. This icon is inactive if there are no alternate camera angles recorded on disc.

#### ENLARGE PICTURE

Zoom the picture up or down, and pan through the image. The available zoom settings are: OFF, x 1.33. x 2.4. Press the down directional button or key (14) to access the pan box and press the enter button or key (15) to pan. An ok box appears on the screen. Use the directional arrows to pan around the image. Press enter to exit the setup menu. The disc plays with the image at the enlarged size in the pan position. To return the picture image to the regular size and position, enter the setup menu, navigate to the enlarge picture icon, and select OFF.

Multiple-Tool bar Icons, continued

**Toolbar 3 on Screen** 



USE CURSOR ARROW TO RETURN TO PREVIOUS TOOLBAR ICONS

#### **TOOLBAR 3**

#### TITLE

Select a title on a DVD or VCD, and the disc plays the title selected. Discs containing only one title will restart from the beginning of TITLE 1 when you activate this function.

#### CHAPTER

Select a chapter on a DVD. The chapter number appears at the top of the screen, and the disc plays the chapter selected.

#### TIME SEARCH

Use the time search function to begin playing from a desired time on the DVD. Enter the time in the time edit box using the numeric keypad (24), and the disc plays at the time selected.

#### FTS (FAVORITE TRACK SELECTION)

Store up to 20 of your favorite DVD or VCD titles and chapters, or Audio CD tracks. If this function is off, you can program a loop. If this function is on, you can play a loop that you have programmed. See page 46 for more information.

## **Special Operations**

How to Write a Title/Chapter	When you play a DVD or VCD, you can write a program, if the disc allows this function:			
Program for a DVD or VCD	Navigate to the favorite track selection (FTS) check box at the far right of the third toolbar. ON OFF is displayed below the icon: ON Titles or chapters are programmed.			
	OFF Titles or chapters are not programmed.			
Notes	When a disc does not offer the FTS feature, there is no FTS check box icon in the toolbar and you cannot write a program.			
	To select a program:			
	1. The phrase below the FTS icon in the FTS toolbar icon is OFF. Press the down directional button (14) on the front panel or the down directional key on the remote control to move the cursor arrows to the FTS main menu. The FTS selection in the main menu is OFF.			
	2. Press the down directional buttons or keys to move the cursor arrows to TITLE OR CHAPTER ON the left FTS screen. Notice the disc title and chapter number(s), on the right program screen. The cursor arrow is at the selected number, highlighted in black.			
	3. Use the right and left directional arrow button or key to select the title(s) and chapter(s) for your program.			
	4. Press the enter button or key (15) to set each selection. The FTS selection in the main menu changes to ON, and each selection appears after PROGRAM.			

#### Special Operations, continued



Favorite Track Selection (FTS) Setup Menu on Screen

- 5. Exit the FTS program screen by pressing the up directional arrow. The phrase in the FTS toolbar icon changes to ON.
- 6. When you have finished selecting program titles and chapters, press the play button or key (8) to begin playback of the program sequence.

To clear a program:

- The phrase in the FTS toolbar icon is ON, and the box in the toolbar menu is checked. Press the down directional arrow which is located to the right of the word ON. The FTS screens appear. The FTS selection in the right program screen is ON.
- Press the down directional button or key (14) and scroll to the bottom of the program box, to select CLEAR ALL, which changes from blue to black. Press enter. The selected program tracks disappear and the FTS selection on the right hand program screen changes to OFF.
- 3. Exit the FTS program screens by pressing the up directional arrow. The phrase in the FTS toolbar icon changes to OFF.

## How to Write a Track Program for an Audio CD

#### FAVORITE TRACK SELECTION FTS

The FTS program allows you to store your favorite tracks for a particular disc in the Showcase DVD memory. Each FTS program contains up to 20 tracks.

- 1. Place an audio disc in the disc transport (12) and press the stop button or key (7). The audio mode menu appears on the video screen.
- 2. Use the down directional button or key (14) to navigate to the list of available tracks.
- 3. Use the left and right directional button or key to select tracks from the list, or enter the track number using the numeric keys.
- 4. Store each track by pressing enter (15). The track numbers are added to the program list. The number of tracks and the playing time of the program are displayed in the front panel window and in the audio mode menu on the video screen. The Showcase DVD automatically memorizes the FTS program.
- 5. Use the right or left directional buttons or keys to select ON OFF.
- 6. When the FTS program is complete, press play (8) to start playback or press stop to return to the stop mode.

To erase a track from an FTS program:

- 1. Use the directional buttons or keys to select the track number you want to erase.
- 2. Press enter. The track number will be erased from the list of selected tracks.

or

- 1. To erase the complete FTS program, use the down directional arrow to select CLEAR ALL.
- 2. Press enter. The complete FTS program will be erased.

How to Create an A-B Loop for a DVD, VCD, or	1.	When you see or hear the selection that you want as the begin- ning of the loop, press the A-B key (25) to insert the start position. REPEAT A appears on the video screen.
Audio CD	2.	When you see or hear the selection you want as the end of the loop, press the A-B key again to insert the finish position. REPEAT A-B appears on the television screen.
	3.	Playback of the loop begins automatically and continues until you press the A-B key a third time. REPEAT disappears on the video screen.
Note	Pa	use and resume play functions are active within an A-B loop.

#### Special Operations, continued

### Child Lock/Unlock

When child lock is inactive, the CHILD SAFE temporary feedback field icon appears in the upper left hand corner of the television screen, at the start of playback. When child lock is active, the CHILD LOCK ON temporary feedback field icon appears instead, at the start of playback.

To activate or deactivate CHILD LOCK:

- 1. If a disc is playing, stop disc playback (7).
- Navigate to the osb icon on the toolbar and press the down directional arrow or key (14). The main menu appears on the screen with the cursor arrows at the TV category.
- 3. Navigate to the ACCESS CONTROL function in the main menu.
- 4. Select ENTER CODE from the main menu. The enter code dialog box appears.
- 5. Enter the code of your choice. The confirm code dialog box appears.
- 6. Confirm the code. The access control dialog box appears.
- 7. Navigate to CHILD LOCK using the directional buttons or keys.
- Select the LOCK icon using the directional buttons or keys. The lock icon is selected when it is highlighted in black or

select the UNLOCK icon to deactivate child lock.

8. Press the enter button or key (15) to exit the setup menu.



#### Krell Showcase DVD

## To Authorize a Disc

Child Protection Dialog Box on Screen

When child lock is active, the child protection dialog box appears on screen each time a new DVD or VCD is played.

looked	Access Control
Play always	
Choose 'Play always the child-safe list	s' to insert the disk in

1. Enter your secret code and select PLAYBACK ONCE. The disc can be played as long as it is in the Showcase DVD transport, and the player is ON.

or

Enter your secret code and select PLAYBACK ALWAYS. The disc is authorized for play and the child safe temporary field icon is displayed, even if the child lock function in the setup menu is ON. If you select PLAY ALWAYS, the player will remember the disc for future use.

LIST OF AUTHORIZED DISCS The Showcase DVD keeps a list of 80 child safe disc titles in memory. A disc is placed at the top of the list when you select PLAYBACK ALWAYS in the child protection dialog box. When the list is full and a new disc is added, the last disc on the list is deleted from memory. Double sided DVDs may have a different ID for each side. To make the disc child safe, each side needs to be authorized.

# To Unauthorize a Disc

## To Activate/ Deactivate Parental Control (DVD Only)

#### PARENTAL CONTROL DISCLAIMER

The Showcase DVD player features a parental control system which activates when playing DVDs programmed with parental control coding. This parental control system will not be active on a DVD which does not have parental control coding. Please make sure that the disc plays according to your parental control settings, before you allow children to play the disc.

- 1. Place the disc in the transport (12). Playback starts immediately.
- 2. Press the stop button or key (7) when the CHILD SAFE temporary field feedback icon is visible.
- 3. The CHILD LOCK ON temporary field feedback icon replaces the child safe icon. The disc is now unauthorized.

The PARENTAL LEVEL function allows you to prevent discs from being played by children, or allows you to play certain discs with alternative scenes. A disc may be programmed to contain parental control information, on the entire disc or on certain scenes. These scenes are rated from 1 to 8, and alternative scenes more suitable to viewing by children, are available on the disc. These ratings are country dependent.

- 1. Open the setup menu (17).
- 2. Navigate to the OSD main menu.
- 3. Select ACCESS CONTROL. The access control dialog box appears.
- 4. Enter your 4-digit code.
- 5. Navigate to PARENTAL LEVEL.
- 6. Navigate to the value adjustment bar (1-8).
- 7. Use the up and down directional buttons or keys (14) to select a rating for the disc that is on the transport.
  - RATING 0

Rating is not active. The disc plays in full.

RATINGS 1-8.

The disc contains scenes not suitable for children. If you set a rating for the player, all scenes with the same rating or lower playback. Higher rated scenes do not playback unless an alternative is available on the disc.

8. Press enter (15), or press the left directional button or key to exit the menu.

#### Special Operations, continued

### To Change the Country

- 1. Open the setup menu (17).
- 2. Navigate to the OSD main menu.
- 3. Select the SPECIAL FEATURES category.
- 4. Select ACCESS CONTROL.
- 5. Select ENTER CODE. The enter code dialog box appears.
- 6. Enter your 4-digit code. The access control dialog box appears.
- 7. Navigate to CHANGE COUNTRY.
- 8. Press the right directional button or key (14). The country sub menu appears.
- 9. Use the up and down directional buttons or keys to select a country.
- 10. Press the enter button or key (15), or press the left directional button or key again to exit the menu.

### To Change the 4-digit Code

- 1. Open the setup menu (17).
- 2. Navigate to the OSD main menu.
- 3. Select the SPECIAL FEATURES category.
- 4. Select ACCESS CONTROL.
- 5. Select ENTER CODE. The enter code dialog box appears.
- 6. Enter your 4-digit code. The access control dialog box appears.
- 7. Navigate to CHANGE CODE.
- 8. Press the right directional button or key (14). The enter code dialog box appears.
- 9. Enter the new 4-digit code using the numeric keys (24). The confirm code dialog box appears.
- 10. Enter the new code a second time. The access control dialog box reappears.
- 11. Press the enter button or key (15), or press the left directional button or key to exit the menu.

# Did You Forget the 4-digit Code?

- 1. Press the stop button or key to exit the child protect screen.
- 2. Open the setup menu (17).
- 3. Navigate to the OSD main menu.
- 4. Select the SPECIAL FEATURES category.
- 5. Select ACCESS CONTROL.
- 6. Select ENTER CODE. The enter code dialog box appears.
- Cancel the 4-digit code by pressing the stop button or key (7) 4 times in the access control dialog box.
- 8. Enter the new code. The confirm code dialog box appears
- 9. Enter the new code a second time. The access control dialog box reappears.
- 10. Press the enter button or key (15), or press the left directional button or key (14) to exit the menu.

## Warranty

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. This Krell product has a limited 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.

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

The warranty on this page 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 this 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 this 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 unit 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.

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.

If a unit 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 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.

Krell does not supply replacement parts and/or products to the owner of the unit. Replacement parts and/or products will be furnished only to the distributor performing service on this unit 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.

## **Return Authorization Procedure**

HOW TO EXPEDITE SERVICE	If you believe there is a problem with your component, please con- tact your dealer, distributor, or the Krell factory to discuss the problem <i>before</i> 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:	
		http://www.krellonline.com
	To contact the Krell Service Department:	
	TEL FAX E-MAIL WEB SITE	203-799-9954 Monday-Friday, 9:00 AM to 5:00 PM EST 203-799-9796 service@krellonline.com http://www.krellonline.com
HOW TO RETURN A PRODUCT	To return a product to Krell, please follow this procedure so that we may serve you better:	
	<ol> <li>Obtain a Return Authorization Number (R/A number) and ship- ping address from the Krell Service Department.</li> </ol>	
	<ol> <li>Insure and accept all liability for loss or damage to the product during shipment to the Krell factory and ensure all freight (ship- ping) charges are prepaid.</li> </ol>	
	The product may also 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.	
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.	
HOW TO PURCHASE ADDITIONAL PACKING	To purchase additional packaging, please contact your authorized Krell dealer, distributor, or the Krell Service Department for assistance.	
SERIAL NUMBER	Your Showcase DVD product serial number is:	

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

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## Showcase DVD

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