Connecting the CIPHER to Your System

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

Pin assignments for XLR connectors:

Pin 1 Shield (ground)
Pin 2 Non-inverting (hot) (0°)
Pin 3 Inverting (cold) (180°)

Operating the CIPHER

Note
The CIPHER reads data discs. For example, if you prepare a CD-R or DVD-R containing MP3 audio files, you can play the discs on the CIPHER. The following terminology appears in the front panel display, to help you navigate a data disc:

ROOT = The beginning of the disc.
F = A closed folder.
TOP = An open folder.

Press the enter button or key (11) to open a folder, move to the previous folder, or play a track.

Press the up and down arrows or keys (12) to move between tracks in a folder.

ACCESSING FORMATS ON A HYBRID CD

Follow these steps to connect the CIPHER to your system.

1. Make sure all power sources and components are off before connecting inputs and outputs.
2. Neatly organize the wiring between the CIPHER and all system components. Separate AC wires from audio cables to prevent hum or other unwanted noises from being introduced into the system.
3. Balanced outputs use three-pin XLR connectors. Single-ended outputs use RCA connectors. Maintain the correct left/right orientation of these outputs.
4. To play SACD discs, you need to use analog audio outputs. Digital audio outputs are only available for conventional compact discs.

   For multi-channel (SACDMulti), two-channel (SACDStereo), and conventional compact disc (CD) playback, connect the CIPHER multi-channel analog audio outputs to the surround preamp/processor multi-channel inputs. All multi-channel analog audio outputs are available in the MULTI format. Center (C), subwoofer (SW) and surround (SL, SR) multi-channel outputs are not available in the CD or SACDStereo formats. Left (L) and right (R) multi-channel outputs are always active.
5. For two-channel, and conventional compact disc playback only, connect the CIPHER balanced analog audio outputs, or the left (L) and right (R) multi-channel outputs to the preamplifier balanced or single-ended analog audio inputs.
6. In addition, for conventional compact disc playback only, you may connect the CIPHER digital coaxial output or digital optics output to the corresponding preamp/processor digital input.
7. Plug the AC power cord into the IEC power connector on the back panel. Then plug the AC power cord into the wall socket.

Press the back panel power switch (34) labeled "1". When the CIPHER is initialized and in the stand-by mode, the red stand-by LED (2) on the front panel illuminates. Then press the power button on the front panel or the power key (1) on the remote control, to place the CIPHER in the operational mode. When the blue power LED (2) illuminates, the CIPHER is in the operational mode.

1. Press the open/close button or key (7) to open the disc transport.
2. Place the disc on the transport.
3. Press the open/close button or key again to close the disc transport. The front panel display reads the total tracks and time on the disc.
4. Press the play button or key. The format type is visible in the front panel display. The format type disappears and the front panel display reads TRACK 1 and the track time, as the disc begins playing.
5. Press the stop button or key (5), and then the title button or key (13), to select another disc format and view available tracks.
6. Adjust the volume level through your system volume control.
7. Press the stop button or key to end disc playback.
8. Press the play button or key (6) to begin playback again, from the first track.
9. To return the CIPHER to the stand-by mode, press the power button or key (1).

1. Press the stop button or key (5). The front panel display (19) shows the total tracks and time on the disc.
2. Press the title button or key (13) until the desired format shows in the front panel display. After a few seconds, the format name disappears and the front panel display shows the total tracks and time on the disc.
3. Press the play button or key (6) and the selected format begins playing.

CIPHER
MODEL _____   SERIAL NUMBER _____

Krell Industries, LLC., 45 Connair Road, Orange, CT 06477-3650 USA
TEL 203-799-9954, FAX 203-891-2028, E-MAIL krell@krellonline.com
WEB SITE http://www.krellonline.com

KRELL
THE LEADER IN AUDIO ENGINEERING

CIPHER
SACD/CD Player

QUICK SETUP GUIDE

Getting Started

Thank you for your purchase of the Krell CIPHER. The CIPHER is a music-only platform which plays single layer, dual layer, and hybrid super audio compact discs as well as conventional audio compact discs. This component features exceptional high quality two-channel stereo as well as the new multi-channel output, bringing you the excitement of six-channel sound.

Please contact your authorized dealer, distributor, or Krell if you have any questions not addressed in the owner's reference.

Do not place the compact disc player 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.

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

The ventilation grids on the top and bottom of the CIPHER 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 CIPHER 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.

Unpacking

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

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

1 CIPHER	1 CIPHER remote control
1 IEC connector (AC power) cord	2 AAA batteries
1 12 VDC (12 V trigger) cable	1 Quick Setup Guide
1 T-10 Torx wrench	

2. Grasp the underside of the foam end-caps that encase the CIPHER and lift it straight out of the shipping box.
3. Place the CIPHER in a safe location and remove the protective plastic wrapping.

Placement

Place the CIPHER on a firm, level surface, away from excessive heat, humidity, and moisture. The CIPHER requires at least two inches (5 cm) of clearance on each side and at least two inches (5 cm) of clearance above and below the component to provide adequate ventilation. Installations inside cabinetry may need extra ventilation.
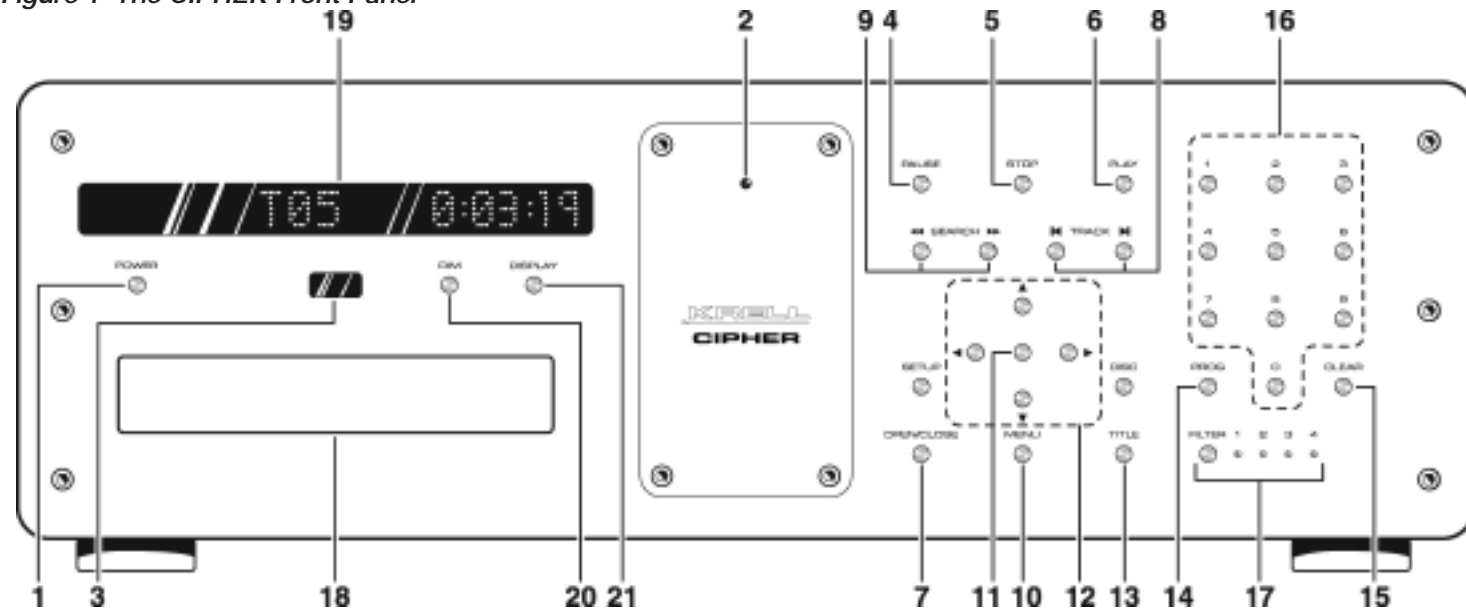
Do not place the CIPHER near hum sensitive components such as preamplifier phono stages or turntables. Although the CIPHER is well shielded, placing it near these components could create interference and cause hum.

AC POWER GUIDELINES

The CIPHER 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 may be used if they are grounded and meet or exceed the unit's power supply rating of 100 VA.

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

Figure 1 The CIPHER Front Panel

Figure 1 The CIPHER Front Panel

Figure 2 The CIPHER Back Panel

Front Panel and Remote

POWER

1 Power
Switches the CIPHER between stand-by and operational modes.

2 Stand-by and Power LED
Stand-by. The red stand-by LED illuminates when the CIPHER is switched on from the back panel, indicating that the player is in the stand-by mode and ready to be switched to the operational mode.

Power. The blue power LED illuminates when the CIPHER is in the operational mode.

3 Infrared Sensor
Receives commands from the CIPHER remote control. For proper remote control operation, do not obstruct the infrared sensor.

TRANSPORT

4 Pause
Temporarily suspends playback of a track. To resume playback at the point pause was engaged, press play.

5 Stop
Stops disc playback.

6 Play
Starts playback from the beginning of the disc.

7 Open/Close Button
Opens and closes the disc transport.

8 Track Forward and Back
Track Forward. Selects the track that follows the current track.
Track Back. Selects the track that precedes the current track.
Search. Press repeatedly (do not hold) to skip multiple tracks.

9 Search Forward and Back
Press to scroll forward or backward in the current track. Press play (6) to return to normal playback.

10 Menu
Access 5 menu choices: 1) Info, 2) Disc Text, 3) SACD Default, 4) System Info, and 5) SPDIF control options.

11 Enter
Press to select one of the 4 menu choices listed above (10).

12 Directional Arrows
Press the up or down arrows to navigate the 3 menu choices.

13 Title
Selects the format: conventional CD (CD), two-channel SACD (SACD Stereo), or multi-channel SACD (SACD Multi). The default format is SACD Multi. The currently selected format appears in the front panel display (19) immediately after being selected. Each format is selectable in the menu.

14 Prog
Press PROG to begin programming a sequence of tracks. If a disc is playing, press STOP (5) and then press PROG.

To set up a program. Press PROG (14) then enter a track number and press ENTER (11). Repeat until all desired tracks are entered. Press PLAY (6) to begin the program.

To exit the program mode. Open the transport (18) or press STOP (5) and then press PROG (14) twice.

15 Clear
Press to delete an unwanted entry in a program sequence.

16 Direct Track Access
Use buttons or keys 1 through 9 to access each track in a disc directly.
If tracks consist of 2 digits, press the buttons or keys within 2 seconds of each other.

17 Filter
Selects filter responses for disc formats.
1 - 4 for SACD
1 - 2 for CD

18 Disc Transport
Holds the disc.

DISPLAY

19 Front Panel Display
Shows disc type and format, and the current status of the disc. The phrase CHANGING LAYER appears in the front panel display while the disc moves between conventional CD and SACD layers.

20 Dim
Reduces the illumination of the front panel display (19).

21 Display
Cycles the front panel display between 4 choices: remaining track time, elapsed track time, elapsed time on the disc, and remaining disc time.

REMOTE ONLY

22 Repeat
Replays selected track or entire disc until new feature is selected.

23 Repeat A/B
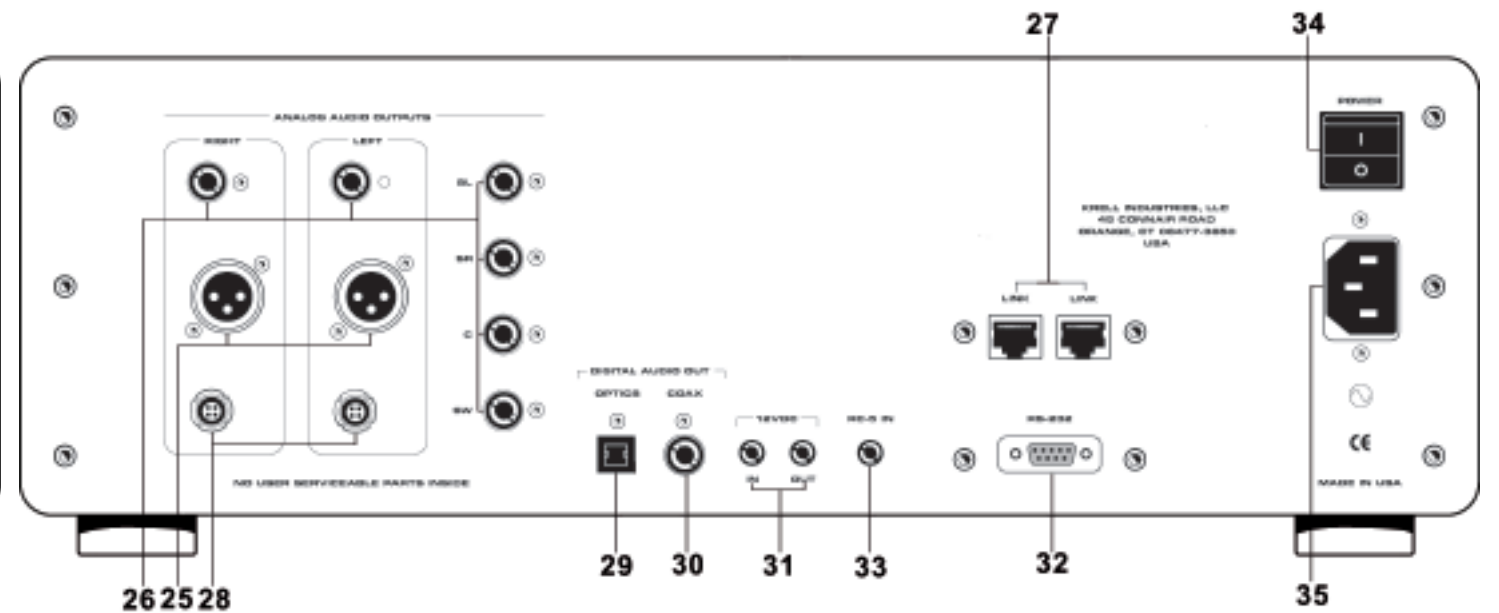Loop between 2 predetermined points within a single track or sequential tracks.

24 Audio
Cycles between the stereo and multi-channel layers of a SACD disc.

INACTIVE

Front Panel. SETUP and DISC buttons are inactive.

Remote. SUBT, ANGLE, RET, SETUP, and DISC keys are inactive.

Back Panel

Figure 3 The CIPHER Remote

Figure 3 The CIPHER Remote

ANALOG AUDIO OUTPUTS

25 L and R Balanced Analog Audio Outputs
One pair of balanced outputs with XLR connectors.

26 Multi-channel Single-ended Analog Audio Outputs
For connection to a multi-channel receiver, with RCA connectors:
L, R = left and right channel connections.
C = center channel connection.
SW = subwoofer connection.
SL, SR = left and right surround channel connections.

27 CANLink
Each CIPHER has two RJ-45 link connectors, connected in parallel. These connectors are used to operate the CIPHER in link mode, with other Evolution products.

28 CAST Audio Outputs
One pair of CAST outputs with 4-pin bayonet connectors, for use with Krell CAST-equipped preamplifiers.

DIGITAL AUDIO OUTPUTS

29 Optics Output
One EIAJ fiber optical digital output with a TosLink connector.

30 Coax Output
One S/PDIF coaxial digital output with an RCA connector.

BACK PANEL REMOTE CONNECTIONS

31 12 VDC In/Out (12 V Trigger)
Out. Activates a 12 VDC signal when the player is in the operational mode that may be used to turn on other devices equipped with a 12V trigger input.
In. Sets the player in the operational mode when a 12 VDC signal is applied to this connection.

32 RS-232
The RS-232 communication port allows you to send and receive operational instructions to and from the CIPHER via an external computer control system.

33 RC-5 In
Accepts baseband RC-5 input commands from hardwired remote controllers.

POWER

34 Back Panel Power Switch
Use this switch to change the CIPHER from off to stand-by.

35 IEC Connector
Use the provided IEC standard 15 amp power cord. The switch should remain unobstructed for ease of operation and in case of an emergency.

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 sound.

Note

The CIPHER 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 voids the warranty.