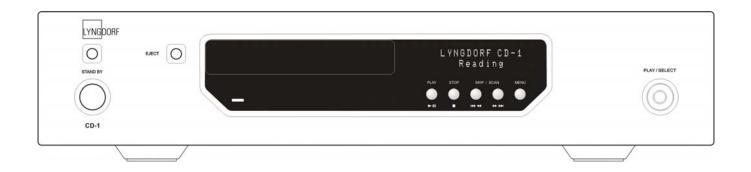
Owner's manual

CD-1 Compact Disc Player





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Operating Voltage

The CD-1 is available in two versions: one for 115V mains voltage and another for 230V mains voltage.

Check the label on the CD-1 rear panel and verify you have the version with the proper voltage for your area.

The 115V version requires a mains voltage of 110V-120V at 50-60Hz with a power rating of 20W. The 230V version requires a mains voltage of 220V-240V at 50-60Hz with a power rating of 20W.



Connect the power input only to the AC source printed on the label. The warranty will not cover any damage caused by connecting to the wrong type of AC mains.

The CD-1 has three power modes:

Or

The Power button will turn the CD-1 on. The CD-1 will start up in standby mode.

2. Standby

The Standby button will put the CD-1 in standby mode or bring the CD-1 back from standby mode. If standby mode is requested while the tray is open, the CD-1 will close the tray before entering standby mode.

3. Off

After Power Off' or Standby, the settings of CD-1 are retained. If the CD-1 was in random mode and/or repeat-all mode, this mode will also be retained. Please note that some parts of the mains entry section still carry live mains.

Unpacking the CD-1

Carefully remove the unit and accessory kit from the carton, visually check for shipping damage. Contact both the shipper and your Lyngdorf Audio representative immediately if the unit bears any sign of damage from mishandeling. All Lyngdorf Audio equipment is carefully inspected before leaving our factory.



Keep shipping carton and packing material for future use or in the unlikely event that the unit needs servicing. If this unit is shipped without the original packing, damage could occur and void the warranty.

Serial Number Registration

Please record the serial number of your amplifier here for future reference. The serial number is printed on the label on the CD-1 rear panel. You will need this serial number, should you ever require service for your CD-1 amplifier.

CD-1 serial number:	
---------------------	--

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Introduction

Lyngdorf CD-1 is an audio optimized upsampling Compact Disc Player with low jitter clock and a High Performance DAC section.

Features

- Audio optimized CD transport mechanism with low jitter clock.
- Linear Low Noise power supply based on Holmgren Transformer technology.
- 3 digital outputs: AES, SPDIF, Toslink selectable sample rate 44.1/48/96/192 kHz.
- Transformer coupled digital interconnects (eliminates ground loops).
- High Performance DAC section operating at 96 kHz with sample rate conversion.
- Stereo DAC output, balanced and unbalanced.
- IR remote control.
- Firmware upgradeable from PC.

Performance

•	Frequency response L/R, 20 – 20000 Hz:	+/- 0.02 dB
•	Signal-to-noise ratio, A-wgt ('infinity zero' track):	115 dBA
•	Dynamic Range, A-wgt (output -60 dBFS 1kHz):	100 dBA
•	Distortion THD + N, 20 – 20000 Hz:	0.0018 %
•	Crosstalk, 125 – 16000 Hz:	-114 dB
•	Odb analog output level:	3.8 Vrms
•	Unbalanced analog output impedance:	75 Ohm
•	Balanced analog output impedance:	100 Ohm

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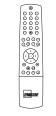


Accessories

You should find the following accessories included:



Mains cord



Remote control



Programming cable



This manual

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Remote Control

The remote control is used to access the menu system and replicate the buttons directly accessible on the front panel. The four buttons used for selecting which device to control are described below. To control the CD player the CD key should be pressed, please note the volume and mute buttons will still work with a Lyngdorf Amplifier, even in CD mode.

1. Standby

The standby button toggles the CD-1 between On and Standby mode.

2. Numerical buttons 0-9

The numeric keys allow direct selection and input of tracks on CD.

3. Info

Shows the firmware version of CD-1.

4. Menu

Activates or de-activates the Menu system on the Main display.

5. Amp

Selects the remote for operation with a Lyngdorf Amplifier.

6. RCS

No function.

7. Tuner

Selects the remote for operation with a Lyngdorf Tuner.

8. CD

Selects the remote for operation with a Lyngdorf CD Player.

9. Left/Right < / >

Allows you to Skip tracks and scroll through the menu functions.

10. Enter

Allows you to confirm actions in menu mode. When not in menu mode, this button also functions like the Play/Pause button.

11. Skip/Scan |<< / >>|

Allows you to Skip to specific tracks. Scan allows you to Search through individual tracks.

12. Stop

Pressing stop during play or pause mode will stop the CD.

13. Play/Pause

Pressing the Play/Pause button will toggle between play mode and pause mode.

14. A/B

This button is used for controlling the A-B Repeat Mode.

15. Random

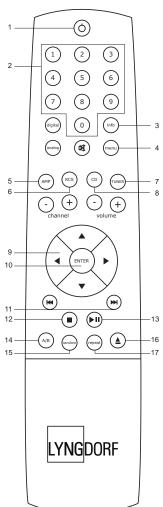
Switches Random play mode On or Off.

16. Eject

Opens or closes the CD loader tray.

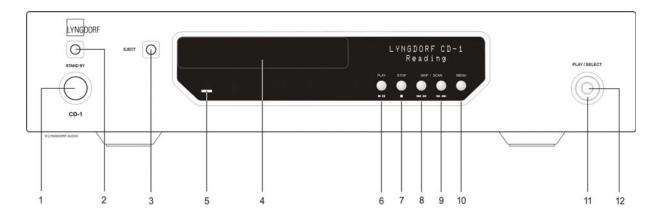
17. Repeat

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Front Panel



Controls

The buttons/controls on the front panel of the CD-1 can all be operated either with direct presses or by operating the corresponding keys on the supplied remote control. All the keys on the front panel [except the Mains switch (1)] are duplicated on the remote control as well.

Additional buttons on the remote control include the following: Random, Repeat, A/B and the digits 0-9. Please note the left < and right > arrows in the center button area of the remote control work exactly like the Skip/Search buttons |<</>>| on the front panel. The Play/Pause buttons and the Enter button also work in exactly the same way.

1. Mains switch

Powers the CD-1 On/Off

2. Standby button

Standby mode, this can also be selected on the remote control.

Eiect

The CD Loader Tray can be opened and closed using the eject button. If the button is pressed during play mode, the disc will be stopped before the tray is opened.

4. The CD Loader Tray

While the tray is opened pressing play will cause the tray to close and start playback. Selecting a track with the digits on the remote control will also close the tray and start playback at the selected track.

5. Indicator light

Power on indicator LED.

6. Play/Pause

Pressing the Play/Pause button or the Skip-Wheel (11 & 12 see below instructions) will start playing the CD. Pressing the button again will toggle between Play mode and Pause mode.

You can select a new track with the skip buttons, the Skip-Wheel (11 & 12 see below instructions) or directly with digits during pause mode. This will cause the CD-1 to position itself at the start of the selected track but it remains in Pause mode until the Play/Pause button is pressed again.

7. Stop

Pressing stop during play or pause mode will stop the CD.

In menu mode used for navigation in the menu system: Up/Down, Left/Right & Enter.

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8-9. Skip / Scan

Pressing briefly on the Left |<< Skip/Scan button or turning the skip wheel left will restart the current track or, if currently playing within the first two seconds of the current track, skip to the previous track.

Turning the skip wheel right or pressing shortly on the >>| button will skip to the next track.

Skipping left from the first track will always restart this track while skipping right from the last track will have no effect - unless the CD-1 is in Repeat All mode. In this case, the CD-1 will loop-around to the last / first track.

Holding the |<< or >>| buttons down for more than half a second will start the CD searching (Scan) in the indicated direction. The CD starts at approximately twice the normal speed, but after a few seconds the speed will increase further.

Searching (Scan) past the end of the disc or before the start of the disc will stop the disc playing, unless the CD-1 is in Repeat All mode. In this case, the disc will loop-around to the start or the end of the disc.

10. Menu functions

In the menu there are several options for setting up the CD-1, press Menu to enter. In the main menu, the different menu items can be selected with the |<< and >>| keys or with the Skip-Wheel. Once the correct menu item has been found, pressing the Play/Pause button or the Skip-Wheel will enter the submenu.

In the sub-menus the current value of the setting is shown. A new value can be selected using the |<< and >>| keys or the Skip-Wheel. To accept the change, press the Play/Pause button or the Skip-Wheel. Pressing the menu button again or selecting <Exit Menu> will exit the menu without saving changes.

11-12. Play/Select (also referred to as the Skip Wheel)

The Play/Select button is a Skip-Wheel which allows you to Skip left |<< and Skip right >>| by turning the wheel in either direction.

- The button in the centre works in exactly the same way as the Play/Pause button. During play mode, it toggles between Play and Pause. In the menu mode the button is used as the select-function.
- If no disc is in the CD-1, the tray will open by pressing the button.
- Holding down the button will access the main menu.



Play Modes

A-B Repeat mode

A-B Repeat mode is entered by pressing the 'A/B' button on the remote once to mark the start time [A] then pressing it again to mark the end time [B]. Pressing the 'A/B' button a third time will return the CD-1 to normal playing mode.

Using other functions such as Skip, Scan or Direct Track selection from the remote control will also exit to normal playing mode.

If the 'A/B' button is pressed during Random mode and/or Repeat One mode, these modes will be cancelled.

A-B Repeat mode is indicated in the lower left-hand corner of the display. When [A] time has been set and CD-1 is waiting for [B] time, the symbol 'A' will be displayed. Once [B] time has been selected and the CD-1 is playing in A-B Repeat mode, the symbol will be changed to 'AB'.

Random Play mode

When the 'Random' button is pressed on the remote control or Random mode is activated in the menu, the Random Play mode is entered and CD-1 creates a random play list. This starts playing from the list instead of playing the tracks in numeric order. If a track has already been selected or a track is playing, this track will automatically become the first in the random play list so no new track is selected by enabling Random Play mode.

Using the number buttons on the remote control to select a specific track number, the Random Play mode will cause the CD-1 to create a new play list with the selected track as the first. The CD-1 will then start playing this track.

Using the skip wheel (11 & 12) on the front panel or the Skip/Scan |<< / >>| buttons during Random Play mode will skip to the previous or next track in the random play list. The skip functions will not skip past the beginning or end of this play list unless Repeat All is selected, then the next and previous functions will loop around at the beginning or end of the play list.

Selecting Repeat All during Random Play mode will repeat the random play list after the last track in the list. The play list is not affected.

Selecting Repeat One during Random Play mode will repeat the current track playing without affecting the play list.

If the Stop button is pressed during Random Play mode, a new random play list will be generated when Play mode is entered again.

Turning Random Play mode off and on again will cause the CD-1 to generate a new random play list.

Repeat mode

Selecting Repeat mode will allow the CD-1 to skip to the first track again when the end of the last track is reached.

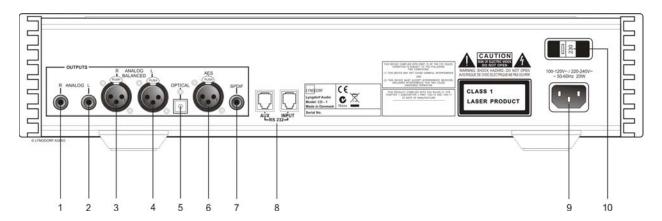
Repeat One mode

Selecting Repeat One mode will allow the CD-1 to restart playing the track when the end of that track is reached.

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Rear Panel



1-2. Analog output right and left RCA Connectors.

3-4. Analog balanced output right and left XLR Connectors for balanced output.

5. Optical output Toslink Connector for digital output.

6. AES Output XLR Connector for AES output.

7. SPDIF SPDIF output.

8. RS232 INPUT/AUX

AUX and INPUT RJ45 connectors

The RS232 communication connectors are for communication to a PC or remote control from Lyngdorf equipment with broadcast commands or linked control between other components. The Input is looped to Aux for daisy chaining of components. The 'Input' is used for connection to a PC/computer to upgrade the firmware.

Mains InputIEC320 type connector.

10. Power mode selection switch

The CD-1 has a large switch above the Mains Input (9) selected to the correct voltage for your location or Country's power supply. This switch is selected to either 115V or 230V operation.



Always check the correct voltage 115V or 230V operation has been selected for the voltage in your location or country. Failure to do this may result in serious damage to your CD-1 component.

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Main Display

The Main Display on the front panel of the CD-1 is the users feedback of all functionality and current status of the CD-1. When the Player is powered up the Main display screen shows the current firmware version:

```
LYNGDORF CD-1
Version: 1.0
```

If no disc has been inserted, the following text will appear:

```
LYNGDORF CD-1
No Disc
```

When opening the tray, the display will indicate this:

```
LYNGDORF CD-1
Openi ng
```

The next screen will show the 'Tray Open' ready for you to carefully insert a compact disc.

```
LYNGDORF CD-1
Tray Open
```

The screen will state 'Closing' when you have placed a disc into the empty tray and pressed the eject button or the Play/Pause button.

```
LYNGDORF CD-1
Closing
```

The next screen states 'Reading' this means the CD-1 is reading the TOC (Table of contents) of your compact disc.

```
LYNGDORF CD-1
Reading
```

When table of contents has been read, the CD-1 will display the number of tracks and the total playing time of the CD.

```
LYNGDORF CD-1
11 1: 06: 32
```

When playing, the CD-1 will display the current track, the number of tracks, and the elapsed time of the current track. Track time is displayed as it progresses through the track.

```
Playing 1 of 11
0:08
```

When skipping between tracks the time will disappear and be displayed again once the requested track has been found.

```
Playing 6 of 11
```

If you press pause the CD-1 will display the time at which the track has been paused.

```
Pause 6 of 11
0: 09
```

Pressing A/B on the remote control will show 'A' in the bottom left hand corner of the display, this indi-

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cates that the start time has been selected, and the CD-1 is now waiting for the stop time.

Once A/B has been pressed again and the CD-1 is playing in A-B Repeat Mode, the display will show 'AB' in the bottom left hand corner of the display.

When CD-1 is playing in Repeat All mode, 'rep' is displayed in the bottom right hand corner of the display.

Repeat One mode is indicated by the text 'rep1' in the lower right hand corner of the CD-1 display.

Random mode is displayed as shown below. 'rnd' stands for Random.

```
Playing 5 of 11 rnd 1:15
```

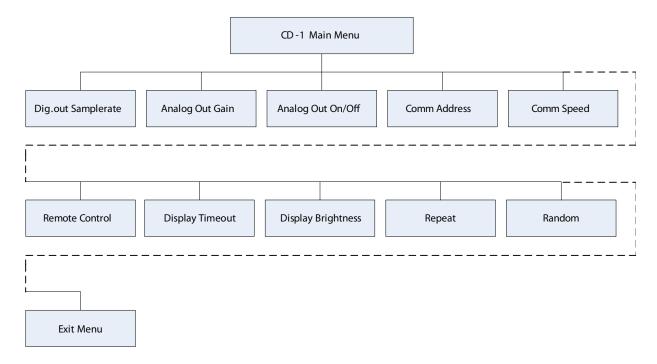


Menu System Display

The Menu system shown in the display of CD-1 is the user's feedback of all functionality in the menu and sub menu system. When entering menu mode, the first item is shown as:

Main Menu CD-1 <Dig.out Samplerate>

The user can browse through the menu items using the right and left arrows or the skip wheel. The available menu items are:





The functionality of each of the menu items are:

Dig. out Samplerate

Chooses the sample rate of the digital outputs.

- 44.1 kHz (16 bit, no sample rate conversion)
- 48 kHz (24 bit)
- 96 kHz (24 bit)(default)
- 192 kHz (24 bit)

Analog Out Gain

Adjusts the gain on the analog outputs in 0.5 dB steps from -12.0 dB to 0.0 dB.

Analog Out On/Off

Enables or disables the analog section of the CD-1 hardware.

Comm Address

Selects the address used for the CD-1 when communicating with PC's or other devices via the RS-232 port.

Comm Speed

Selects the speed used when communicating with PC's or other devices via the RS-232 port.

Remote Control

Disables or enables the IR remote control.

Display Timeout

The timeout can be set to On or Off. On will set a 10 second display timeout.

Display Brightness

The brightness of the display can be set to 25%, 50%, 75% or 100%.

Repeat

Chooses repeat mode: No repeat, repeat one track or repeat all.

Random

Disables or enables random mode.

Exit Menu

Exits the menu when selected.

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Firmware

Lyngdorf Audio supplies a free PC tool for upgrading the firmware of the CD-1. The latest revision of the tool as well as the firmware can be downloaded from www.Lyngdorf.com.

Connectors

Mains Connector

Mains voltage to the CD-1 is applied via an IEC320 type connector. The supplied cable with safety ground should be used to connect the CD-1 to a mains outlet.



Connect the power input only to the AC source printed on the label and the setting shown on the voltage selector switch. The warranty will not cover any damage caused by connecting to the wrong type of AC mains.



Always check the correct voltage 115V or 230V operation has been selected for the voltage in your location or country. Failure to do this may result in serious damage to your CD-1 component.



Always disconnect the CD-1 from the mains before changing any connections to its inputs or outputs.

Analog outputs

The unbalanced RCA outputs are wired in accordance with normal practice:

Shell: Chassis and ground.

Pin: Hot (+).

Unbalanced analog output impedance 75 Ohm

The balanced XLR outputs are wired in accordance with IEC268:

Pin 1: Chassis and ground.

Pin 2: Hot (+).

Pin 3: Cold (-).

Shell: Chassis and ground.

Balanced analog output impedance 100 Ohm

Digital outputs

RCA output (SPDIF):

Shell: Chassis and Ground

Pin: Hot (+)

XLR output (AES):

Pin 1: Chassis and Ground

Pin 2: Hot (+)

Pin 3: Cold (-)

Shell: Chassis and Ground

Toslink

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Cleaning and Maintenance



Always unplug the unit from the electrical outlet before cleaning.

This unit does not require any regular maintenance except to keep its exterior clean. Simply wipe its exterior with a clean soft cloth. A small amount of non-abrasive cleaner may be used on the cloth to remove any excessive dirt or fingerprints. Do not use abrasive cleaners or cleaners containing liquid solvents.

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Technical Specifications

All audio measurements, except frequency response, are measured with a 20KHz low-pass filter in accordance with AES-17. Measured on Unbalanced outputs - RCA (phono).

Audio

Parameter	Value	Note
Frequency response L/R	+/- 0.02 dB	20 – 20000 Hz
Signal-to-noise ratio	115 dBA	('infinity zero' track) A-wgt
Dynamic Range	100 dBA	(output -60 dBFS 1kHz) A-wgt
Distortion: THD + N	0.0018 %	20 – 20.000 Hz
Crosstalk	-114 dB	125 – 16000 Hz
0db analog output level	3.8 Vrms	
Unbalanced analog output impedance	75 Ohm	
Balanced analog output imped-	100 Ohm	
ance		
3 digital outputs	AES, SPDIF Toslink	
Selectable sample rates on digital outputs:	44.1kHz – 16 bits 48 / 96 / 192 kHz – 24bits	

Protection

Parameter	Value	Value
Grounding	Mains earth, chassis and audio	
	ground are connected internally.	
Over temperature	All heat sinks and mains-trans-	Auto resetting thermal fuse in
	former.	mains transformer.

Mains

Parameter	Value	Note
Mains input connector	IEC 320 cold type	Mains lead supplied.
Mains voltage range	100-120V AC, 50-60Hz	Mains selector on 115V
Mains voltage range	200-240V AC, 50-60Hz	Mains selector on 230V
Internal mains fuse	T1Ah	
Power consumption	2.5W	STANDBY mode.
Power consumption	20W	OPERATE mode, Playing CD

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Mechanical

Parameter	Value	Note
Width	450mm (17.72')	
Depth	355 mm(13,98 ')	
Height	100 mm(3,9470 ')	
Net weight	6.9 Kg (15.2 lbs)	
Shipping weight	9.9 Kg (21.8 lbs)	

Discs

Parameter	Value	Note
Compatible disc types	CD-DA, CD-R	
Compatible disc sizes	8 cm, 12 cm	
Other	Non-audio discs such as discs with DTS-encoded sound can be played back via digital interfaces only and only at 44.1 kHz.	The connected amplifier needs to support the encoded format.

Technical Assistance

If you have any problems with or questions regarding your Lyngdorf Audio product, please contact your nearest Lyngdorf Audio representative or:

Lyngdorf Audio Denmark

E-mail: info@lyngdorf.com Web: http://www.lyngdorf.com



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