

CD22

AUDIOPHILE
COMPACT DISC PLAYER

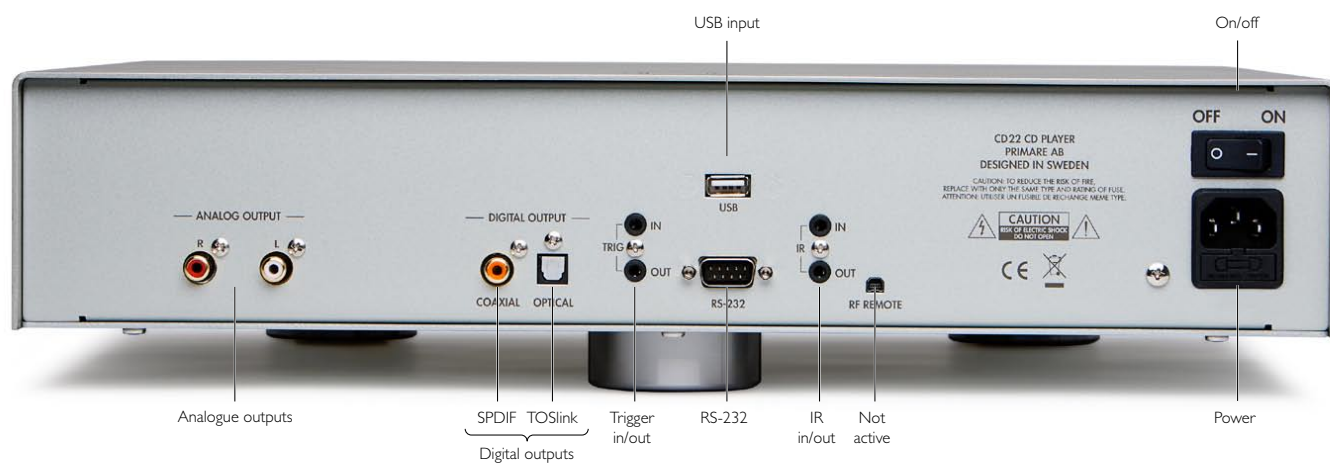
P R I M A R E

USER GUIDE



WELCOME!

Welcome to the Primare CD22! Your CD22 is a high-quality compact disc player with analogue and digital outputs.



GETTING STARTED

Set up your CD22 in four simple steps:

1 UNPACK THE CD22

Your CD22 is supplied with the following components:

- Mains cable.
- C23 remote control.
- Two batteries for the remote control.

If any of these items are missing please contact your supplier. We recommend you retain the packaging in case you need to transport the unit at a later date.

2 CONNECT TO AN AMPLIFIER

Analogue outputs

The analogue output provides RCA sockets for connection to an appropriate stereo amplifier or preamplifier.

- Connect the RCA outputs to your amplifier or preamplifier using RCA cables.

Digital outputs

Alternatively the CD22 Compact Disc Player provides SPDIF and TOSlink digital outputs for connecting to a digital preamplifier or digital surround processor.

- Connect the appropriate output to your preamplifier or surround processor using a suitable cable.

3 CONNECT POWER

- Plug one end of the mains cable supplied with the CD22 into the power connector on the back panel, and connect the other end to a wall socket.

If this cable is not suitable for your power outlets please contact your supplier for an alternative cable.

Note: See *Phase*, page 8, for information about getting the best sound from your CD22.




WARNING: Always disconnect the CD22 from the mains power before connecting or disconnecting any cables.

- Switch on the CD22, using the switch on the back panel.

The standby indicator will light up on the front panel.

To switch on from standby




- Press the  button on the front panel or remote control.

The display shows:

PRIMARE

Press the  button again to switch to standby.

4 PLAY A CD

- Press and hold down the  button on the front panel or remote control to open the tray.
- Place the CD in the tray with the label facing upwards.
- Press the  button on the front panel, or the  button on the remote control, to close the tray and start playing the disc.

For more information about playing a CD see the next page.

For more information about playing music files from a CDR or USB disk see *Playing music from a CDR or USB disk*, page 7.

USING THE CD22

This page explains how to operate your CD22, using the functions available from either the front panel or the C23 remote control.

FRONT PANEL CONTROLS

Standby

Switches the CD22 to standby, or switches it on from standby.

Stop/Open

When the disc is playing: pauses the disc.

When the disc is paused: stops the disc.

Press and hold: opens or closes the CD tray.

Play/Skip


When the disc is stopped: plays the disc.

When the disc is playing: skips to the next track.


Press and hold: skips back through the tracks.




PLAYING A DISC

To open the tray

- Press and hold down the  button on the front panel or remote control.

The display shows:

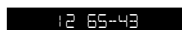


- Place the CD in the tray with the label facing upwards.
- Press and hold down the  button again to close the tray (or press the  button on the front panel or the  button on the remote control).



The display shows:




followed by the number of tracks and total time:





To play the disc

- Press the  button on the front panel, or the  button on the remote control.



While a disc is playing the display shows the current track number and the elapsed time of the current track; for example:




To pause the disc

- Press the  button on the front panel or the  button on the remote control while the disc is playing.

The display flashes:

You can then resume play by pressing the  button on the front panel or the  button on the remote control.

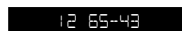
To stop play

- Press the  button on the front panel or the remote control while the disc is paused.

The display shows:





followed by the number of tracks and total time:





LOCATING A POSITION ON THE DISC

You can skip between tracks to locate a particular track on the disc, or you can scan forwards or backwards to locate a position within a track.

To skip forwards through the tracks

- Press the  button on the front panel, or press the  button on the remote control.

To skip back through the tracks



- Press and hold the  button on the front panel, or press the  button on the remote control.

The front panel display shows the track number:




- Release the button to start playing the selected track from the beginning.

To scan through the disc

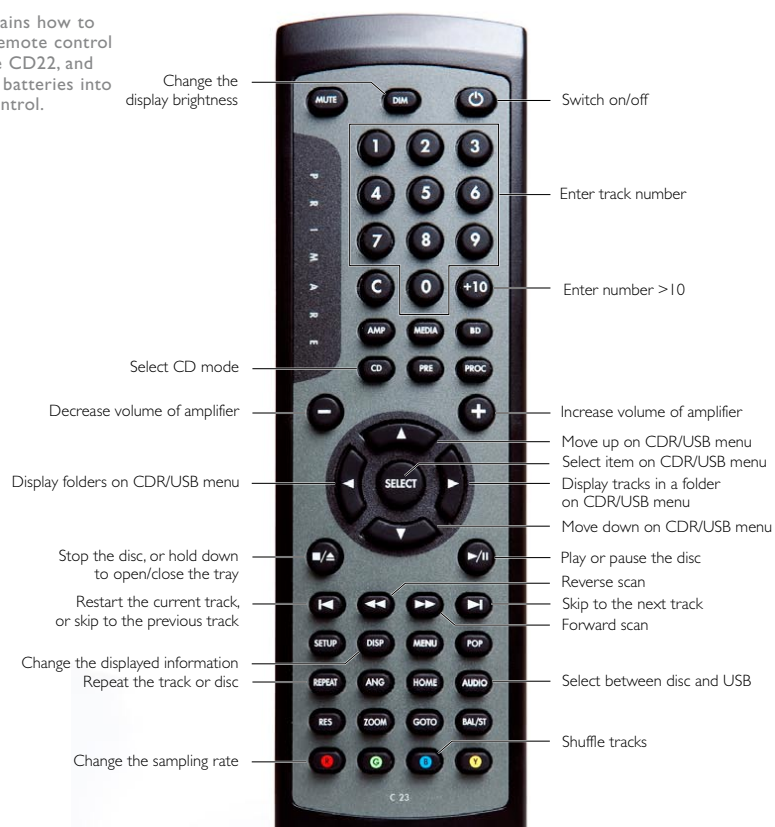
- Press the  or  button on the remote control once to scan at 4X speed, or twice to scan at 8X speed.

The display shows the position within the track.

- Press the  button on the front panel, or the  button on the remote control to start playing from the position you have located.

USING THE REMOTE CONTROL

This page explains how to use the C23 remote control to operate the CD22, and how to fit the batteries into the remote control.



FITTING THE BATTERIES

Before using the remote control you need to insert the two AAA batteries supplied with the C23.

- Gently slide open the cover on the back of the remote control:



- Insert the two batteries, observing the polarity printed on the bottom of battery compartment:



- Slide back the cover until it clips into place:



Note: Replace only with alkaline batteries type AAA, LR03, or equivalent.

When disposing of old batteries please be considerate to the environment.

ADVANCED FEATURES

This chapter explains how to use the more advanced features of the CD22, and how to play audio files from a CDR or USB disk. These functions are accessed from the remote control.

CHANGING THE FRONT PANEL DISPLAY

You can choose how the time is shown on the front panel display, and change the brightness.

To change the time display

- Press the **DISP** button.

The display switches between the following four options:

Track and elapsed time for the current track

Track and remaining time for the current track

Track and elapsed time for the entire disc

Track and remaining time for the entire disc

To change the front panel display brightness

- Press the **DIM** button to step through the three levels of illumination and blank.

REPEAT PLAYBACK

You can play the current track repeatedly, or repeat the entire disc.

To repeat the current track

While the disc is playing:

- Press the **REPEAT** button.

The front panel shows a flashing **T** after the track number:

To repeat the entire disc

- Press the **REPEAT** button twice.

The front panel shows a flashing **A** after the track number:

To turn off repeat

- Press the **REPEAT** button again.

The **T** or **A** in the display will be cleared.

SHUFFLE PLAYBACK

Shuffle playback plays the tracks on the disk in random order.

To play the tracks in random order

While the disc is playing:

- Press the blue **B** button.

The front panel shows a flashing **S** after the track number:

In shuffle mode you can pause a track by pressing the **▶/||** button or skip a track by pressing the **▶** button.

To turn off shuffle

- Press the blue **B** button again.

The **S** in the display will be cleared.

PLAYING A SPECIFIC TRACK

You can play from any track by entering the track number on the remote control.

To play from a specific track

- Specify the track number by pressing one of the buttons **1-9**.

To enter a two-digit track number press the **+10** button first. For example, to enter 16 press the **+10** button followed by the **1** and **6** buttons.

The display shows the track number:

UPSAMPLING

The CD22 allows you to upsample the 44.1kHz signal from a CD to 48kHz, 96kHz, or 192kHz, which improves fine detail, sound stage depth and image separation.

- Press the red **R** button to select between **44K1**, **48K**, **96K**, or **192K** (recommended).

The display shows the current setting; for example:

PLAYING MUSIC FROM A CDR OR USB DISK

You can play MP3 or WMA files on a Recordable CD (CDR), or on a USB disk or memory stick.

To play a CDR

- Place the CDR in the tray with the label facing upwards.

The display shows:



It will then show the name of the first folder containing MP3 files on the CDR.



To select the USB disk

- Connect the USB disk to the USB socket on the back panel.
- Press the **AUDIO** button.

The display shows:



It will then show the name of the first folder containing MP3 files on the USB disk.



To select a folder

- Press the ▲ or ▼ button to step between the folders.

The display shows the current folder:



Names that are too long to fit on the display will scroll across.

- Press the ► or **SELECT** button to display the tracks in the selected folder.
- Press the ◀ button to return to the list of folders.

To select a track

- Press the ▲ or ▼ button to step between tracks.

The display shows the current track



- Press the ►||►, or **SELECT** button to play from the selected track.

The display shows the track number and elapsed time for the current track:



To step through the tracks

While the tracks are playing:

- Press the ◀ or ► button to step between the tracks in the current folder.

To scan through a track

- Press the ◀◀ or ►► button.
- Press the ►|| button to start playing from the position you have located.

Repeat

- Press the **REPEAT** button to repeat the Track (**T**), Folder (**F**), or All (**A**).

The display shows a flashing letter after the track number:



Shuffle

- Press the blue **B** button to shuffle the tracks within the entire CDR or USB disk.

The display shows a flashing **S** after the track number:

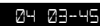


To change the CDR or USB display

- Press the **DISP** button.

The display switches between the following four options:

Track number and elapsed time for the current track



Track number and track name



Track number and artist name



Track number and album name



If there are no MP3 tags the display will show the file name.

TECHNICAL SPECIFICATION

Every component of the CD22, from the CD transport to the audio output stage, has been designed to achieve the highest possible audio performance.

FEATURES

Mechanism

Asatech 8210.B01-02, Sanyo SF-P101N

D/A Converter

SRC4382 (upsampling), PCM1792A (DAC) up to 24Bit/192kHz

OUTPUTS

Analogue outputs

2VRMS, 100Ω impedance

Digital outputs

Coaxial: SPDIF (RCA)
Optical: Toslink

Upsampling

44.1kHz, 48kHz, 96kHz, or 192kHz.

USB PORT

File format

MP3 or WMA

Disk format

FAT16 or FAT32

OTHER INPUTS

IR input: 3.5mm

RS232

Trigger in/out: 3.5mm

PERFORMANCE

Frequency response:

20Hz – 20kHz (-0.5dB)

Signal to noise ratio

20Hz – 20kHz unweighted -100 dB
THD + N: 20Hz – 20kHz <0.01%

GENERAL

Power Consumption

Operating 25W

Idle 23W

Standby 0.3W

Size

430 x 375 x 106 mm (WxDxH)

Weight

10.5 kg

Color

Black or titanium

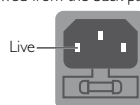
ADDITIONAL INFORMATION

These instructions help you get the best possible sound from your CD22, and give information about configuring its advanced settings.

PHASE

The phase of the AC supply can make a significant difference to the sound.

Ensure that the live pin of the AC power cable is connected to the left-hand pin of the power connector; viewed from the back panel:



BURN-IN

Your Primare will start to sound best after an initial burn-in of approximately 24 hours.

You will notice a further smaller improvement in sound quality for at least another 3 days' playing.

RS232 AND TRIGGERS

The RS232 input allows you to connect the CD22 to a controller system. For more information please contact Primare or visit www.primare.net.

The Trigger input allows the CD22 to be switched on by another device, such as an I32.

The Trigger output allows the CD22 to switch on other devices.

USING THE GENERAL SETTINGS MENU

To display the General Settings menu

- Press and hold down the **⏻** button until the display shows the version number:



NOTE: You need to keep the **⏻** button held down throughout this procedure.

To set the IR input

- Press the **⏻** button until the display shows:



- Press the **▶▶** button to select between **IR FRONT**, to control the CD22 using a remote control pointed at the front panel, or **IR BACK**, to control it via the IR input on the back panel.

To set the trigger input

- Press the **⏻** button until the display shows:



- Press the **▶▶** button to select between **TRIG ON**, to enable the trigger input, or **TRIG OFF**, to disable it.
- Release the **⏻** button to return to normal operation.

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ACKNOWLEDGMENTS

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The information in this guide is believed to be correct as of the date of publication. However, our policy is one of continuous development and so the information is subject to change without notice, and does not represent a commitment on the part of Primare AB.

Primare is a trademark of Primare AB.

This guide was produced by
Human-Computer Interface Ltd.
<http://www.interface.co.uk>

Safety compliance

This product has been designed to meet the IEC 60065 international electrical safety standard.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN**ATTENTION**
RISQUE DE CHOC ELECTRIQUE NE PAS
OUVRIR

CAUTION: To reduce the risk of electrical shock do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING: To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture.

CAUTION: In Canada and the USA, to prevent electric shock, match the wide blade of the plug to the wide slot in the socket and insert the plug fully into the socket.

This product is designed and manufactured to meet strict quality and safety standards. However, you should be aware of the following installation and operation precautions.

1. Take heed of warnings & instructions

You should read all the safety and operating instructions before operating this appliance. Retain this handbook for future reference and adhere to all warnings in the handbook or on the appliance.

2. Water and moisture

The presence of electricity near water can be dangerous. Do not use the appliance near water – for example next to a bathtub, washbowl, kitchen sink, in a wet basement or near a swimming pool, etc.

3. Object or liquid entry

Take care that objects do not fall and liquids are not spilled into the enclosure through any openings. Liquid-filled objects such as vases should not be placed on the equipment.

4. Ventilation

Do not place the equipment on a bed, sofa, rug or similar soft surface, or in an enclosed bookcase or cabinet, since ventilation may be impeded. We recommend a minimum distance of 50mm around the sides and top of the appliance to provide adequate ventilation.



The lightning flash with an arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

5. Heat

Locate the appliance away from naked flames or heat producing equipment such as radiators, stoves or other appliances (including other amplifiers) that produce heat.

6. Climate

The appliance has been designed for use in moderate climates.

7. Racks and stands

Only use a rack or stand that is recommended for use with audio equipment. If the equipment is on a portable rack it should be moved with great care, to avoid overturning the combination.

8. Cleaning

Unplug the unit from the mains supply before cleaning.

The case should normally only require a wipe with a soft, damp, lint-free cloth. Do not use paint thinners or other chemical solvents for cleaning.

We do not advise the use of furniture cleaning sprays or polishes as they can cause indelible white marks if the unit is subsequently wiped with a damp cloth.

9. Power sources

This appliance must be connected to a mains socket outlet using the supplied power cord. To disconnect this apparatus from power, you must disconnect the power cord. Make sure the power cord is always easily accessible.

Only connect the appliance to a power supply of the type described in the operating instructions or as marked on the appliance.

This is a Class I device and **must** be earthed.

The power switch is a single-pole switch. When the switch is in the "Off" position, the appliance is not completely disconnected from the main power.

10. Power-cord protection

Power supply cords should be routed so that they are

not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, and the point where they exit from the appliance.

11. Grounding

Ensure that the grounding means of the appliance is not defeated.

12. Power lines

Locate any outdoor antenna/aerial away from power lines.

13. Non-use periods

If the unit has a stand-by function, a small amount of current will continue to flow into the equipment in this mode. Unplug the power cord of the appliance from the outlet if left unused for a long period of time.

14. Abnormal smell

If an abnormal smell or smoke is detected from the appliance, turn the power off immediately and unplug the unit from the wall outlet. Contact your dealer immediately.

15. Servicing

You should not attempt to service the appliance beyond that described in this handbook. All other servicing should be referred to qualified service personnel.

16. Damage requiring service

The appliance should be serviced by qualified service personnel when:

- A. the power-supply cord or the plug has been damaged, or
- B. objects have fallen, or liquid has spilled into the appliance, or
- C. the appliance has been exposed to rain, or
- D. the appliance does not appear to operate normally or exhibits a marked change in performance, or
- E. the appliance has been dropped or the enclosure damaged.

P R I M A R E

THE SOUND AND VISION OF SCANDINAVIA



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