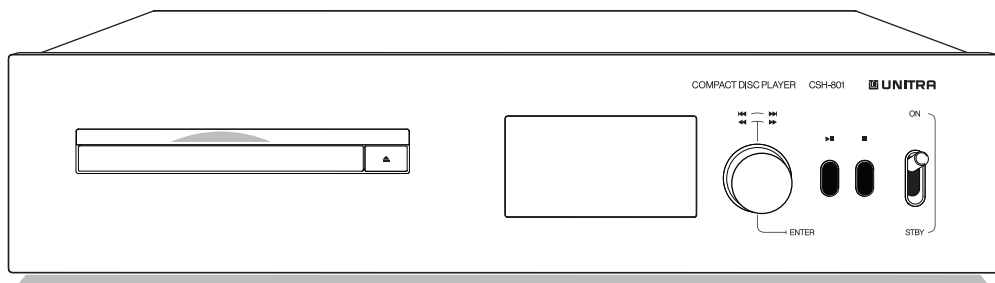


CSH-801

COMPACT DISC PLAYER

User Manual



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Manufacturer



Unitra sp. z o.o.
 Przejazdowa 2b,
 02-496 Warsaw, Poland
 website: www.unitra.com

About this document

Thank you for purchasing this Unitra product.

To ensure proper operation, read this manual carefully and operate the device in accordance with the instructions contained in it. Please keep this manual for future reference after reading it.

Symbols used in this manual

	WARNING	Describes precautions to be followed to avoid the possibility of serious injury or even death.
	CAUTION	Describes precautions to be followed to avoid injury.
	NOTICE	Describes precautions to be followed to avoid malfunction or damage to the product.
	NOTE	Describes supplemental information about the product.

Safety

	WARNING Carefully read the Safety Brochure before use and keep it for future reference.
--	---

Acronyms, abbreviations, and technical terms

GND	Grounding
Ohm	Electrical resistance unit
RCA	Connector type introduced by the Radio Corporation of America
RMS	Root Mean Square
THD+N	Total Harmonic Distortion + Noise
DAC	Digital-to-analog converter
CD-Text	Standard that allows storage of additional information on an audio CD

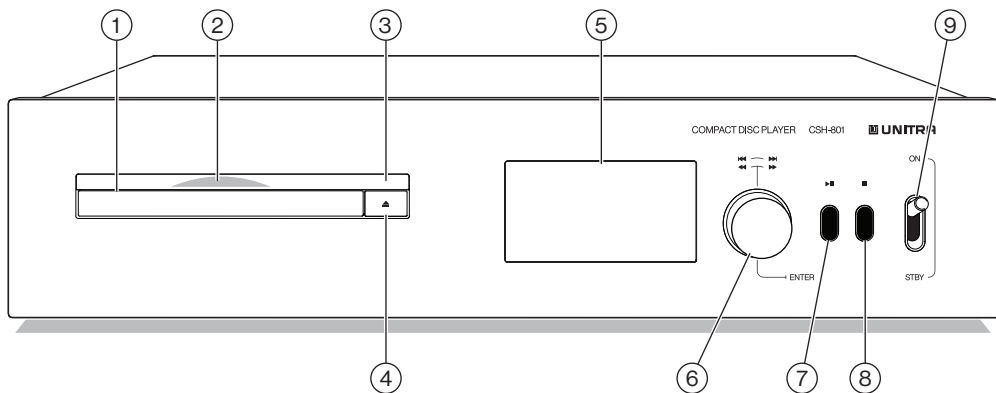
Description

Content of the package

Make sure that the following elements are included in the package:

- Device (CSH-801 Compact Disc Player)
- Power cord
- Other cables (if specified in your order)
- Remote control (battery type CR2032 included)
- User Manual (this book)
- Safety Brochure
- Warranty Card

Front panel overview



① Disc tray

To load a disc. p. 16.

② Disc visor

To display the disc loaded in the disc tray. The disc presence is indicated by the backlight.

NOTE

The disc backlight can be turned off in settings. p. 22.

③ Infrared signal receiver

To receive the infrared signal from the remote control.

④ ▲ (Open/Close) button

To open and close the disc tray.


NOTE

The disc tray can be closed also by pressing Play or by pushing the front of the disc tray.



⑤ Display


To display the playback info and menu.

NOTE

The Device uses E Ink display.  p. 12.

⑥ Control knob

To control the playback ( p. 18.) and navigate menu on the Device ( p. 20.).

▶▶ Skip forward	Rotate the knob right.
◀◀ Skip backward	Rotate the knob left.
▶▶ Fast forward	Press the control knob and rotate it right at the same time.
◀◀ Fast backward	Press the control knob and rotate it left at the same time.
ENTER / enter the menu	Press the control knob.
Navigating the menu	 p. 20

NOTE

The speed of fast forward and backward changes as you rotate the knob further to the right or left.

⑦ ▶|| (Play/Pause) button

To play or pause playback.

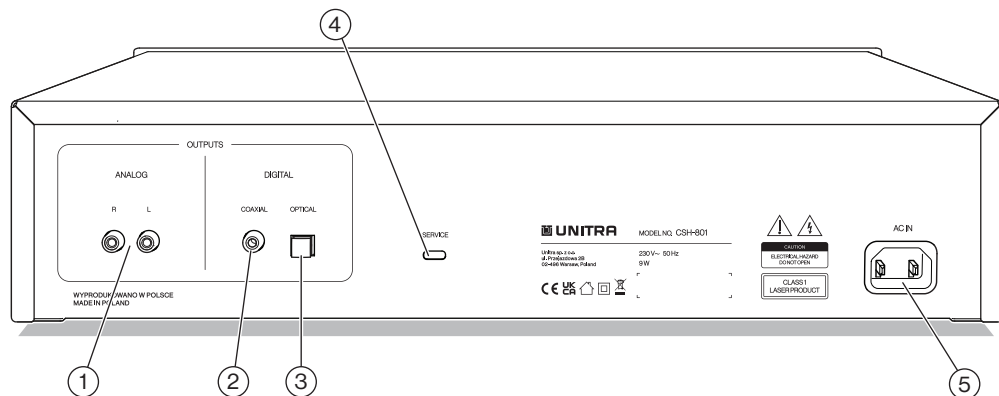
⑧ ■ (Stop) button

To stop playback.

⑨ ON/STANDBY switch

Switch up	ON
Switch down	STANDBY

Rear panel overview



① ANALOG jacks

To connect to an amplifier with an analog input. p. 14.

② DIGITAL COAXIAL jack

To connect to an amplifier with a digital input or to an external DAC. p. 14.

③ DIGITAL OPTICAL jack

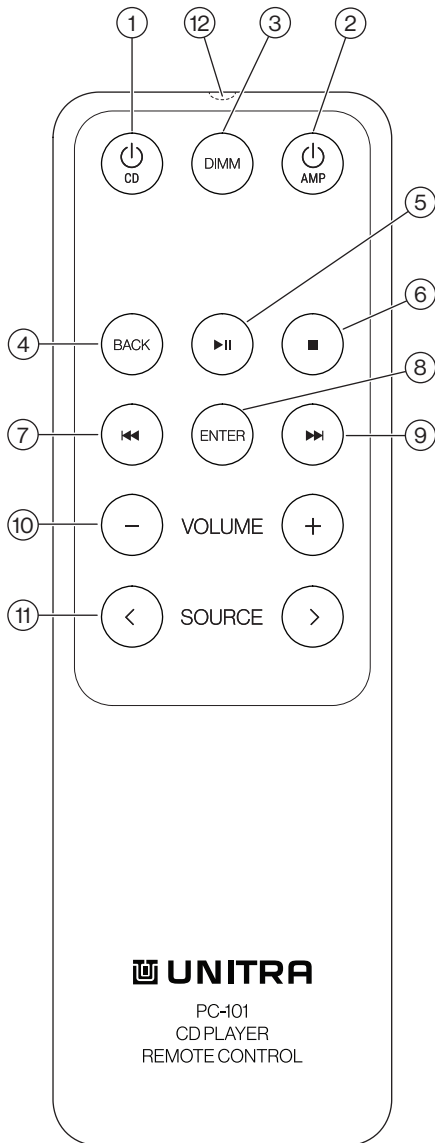
To connect to an amplifier with a digital input or to an external DAC. p. 14.

④ SERVICE socket

To connect a computer to update the Device firmware. p. 24.

⑤ AC IN

To connect the supplied power cable. p. 15.



Remote control overview

① ON/STANDBY CD key

To switch between ON and STANDBY modes of the Device. [p. 7.](#)

② ON/STANDBY AMP key

To switch between ON and STANDBY modes of Unitra amplifier.

③ DIMM key

To select the brightness level of the display frontlight. [p. 22.](#)

NOTE

You can use the DIMM key on the remote control to adjust the brightness of other Unitra devices. To synchronize the brightness of all Unitra devices, press and hold the DIMM key on the remote control. The brightness of all the devices is automatically set to 0.

④ BACK key

To go back when navigating the menu. [p. 20.](#)

⑤ ►|| (Play/Pause) key

To play or pause playback. [p. 17.](#)

⑥ ■ (Stop) key

To stop playback. [p. 19.](#)

⑦ ◀◀ (Multi-key)

To skip and scan tracks backward ([p. 18](#)) and navigate the menu. [p. 20.](#)

⑧ ENTER key

To enter the menu and confirm selections. [p. 20.](#)

⑨ ▶▶ (Multi-key)

To skip and scan tracks forward ([p. 18](#)) and navigate the menu. [p. 20.](#)

⑩ **VOLUME -/+ keys**

To adjust the volume level of Unitra amplifiers.

⑪ **SOURCE keys**

To select the input source on Unitra amplifier. Each push selects the previous or the next input source in line.

⑫ **Infrared signal transmitter**

To send the signal to the infrared signal receiver on the front panel.

Installation of batteries in the remote control

Step 1

Insert a pin (e. g. a paper clip) into the hole on the back surface to remove the plate with the battery holder.

Step 2

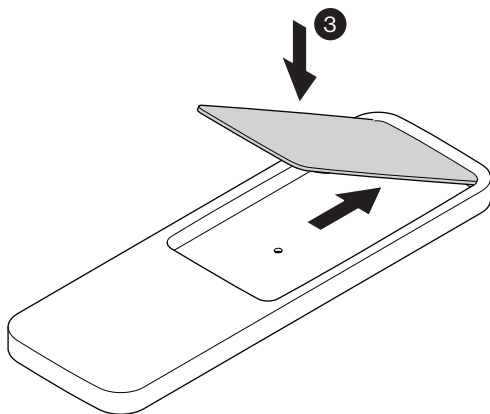
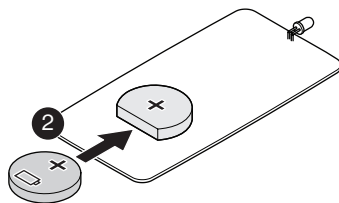
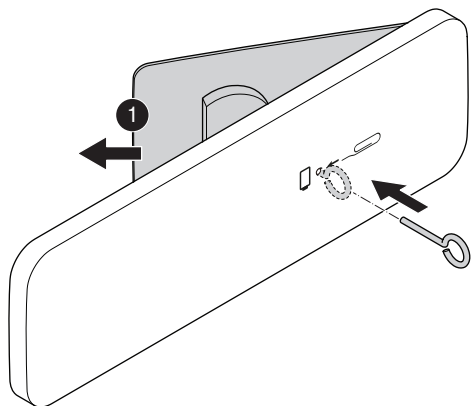
Insert one battery (CR2032) according to the polarity markings (+ and -) on the battery holder.

Step 3

Install the plate with the battery holder on the remote control.

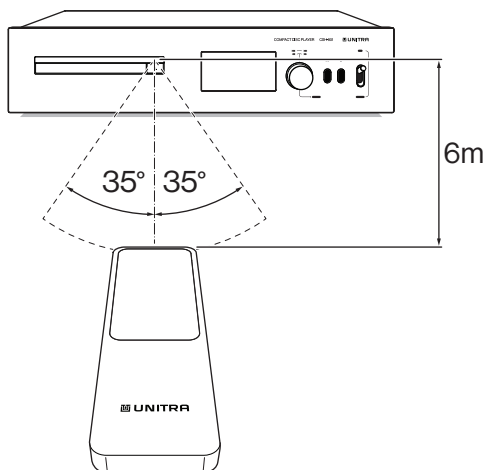
NOTE

Before first use, remove the plate as in **Step 1** and make sure there is no foil between the battery and the battery holder.



Operation of the remote control

Operate the remote control in the range shown in the illustration by pointing it toward the remote control signal receiver on the front panel of the Device.



Display

The Device uses electronic paper display technology, known for its reflective properties, ensuring clear visibility even in bright sunlight. This technology mimics the appearance of traditional ink print on paper, yet it achieves this effect through electronic means, displaying ink particles electronically.

NOTE

Occasionally, you may observe a brief screen flash; this is a normal aspect of the content refresh process, which keeps your Device's display up-to-date and free from any residual images.

Recommendations for use

NOTICE

- **If you plan not to use the Device for a long period of time, make sure that the Device is disconnected from the AC power source. Be aware that when the Device is in standby mode the electric current is still flowing through the unit.**
- **Do not overload the top of the device with weights exceeding 30 kg.**

- When frequent transient states and impulse distractions in the power line happen, distractions on output connectors may occur. Those interferences may impact audio signal amplification quality and can generate sound distortions. When distractions on the power line end, the device returns to normal operation.
- If the electrostatic discharge goes to the input jacks (RCA connectors), the standard operation of the Device can be disturbed. When the electrostatic discharge ends, the Device is back to normal operation without your intervention.
- For proper operation of the device, it is not recommended to use connection cables longer than 3 m.

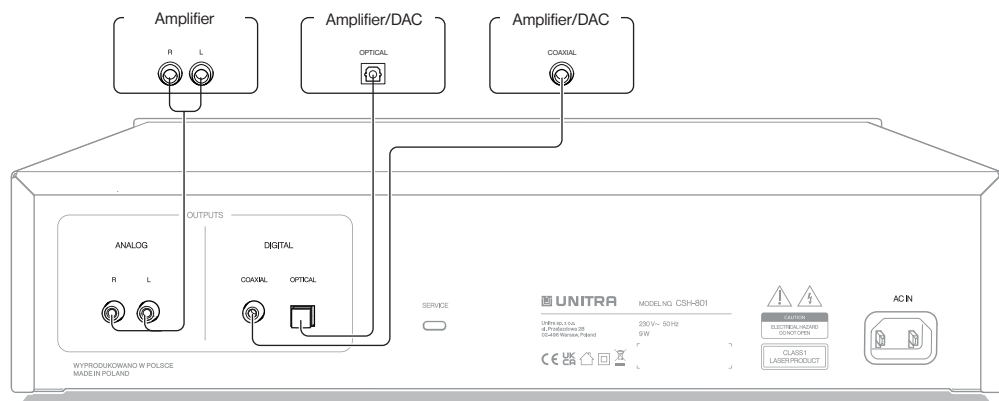
Connections



CAUTION

Do the input connections before connecting the Device to the AC power source. p. 15.

Connecting an amplifier or a DAC



Use analog output if your amplifier do not have built-in DAC or you want to use the DAC built in the Device .

To use the Device as a transport, connect an amplifier or an external DAC to DIGITAL outputs (COAXIAL, OPTICAL). The DIGITAL outputs transfer unprocessed digital signal read by the CD ROM.

Connecting the AC power cable



CAUTION

Install the Device in accordance with the Safety Brochure (section Installation) enclosed to this product.

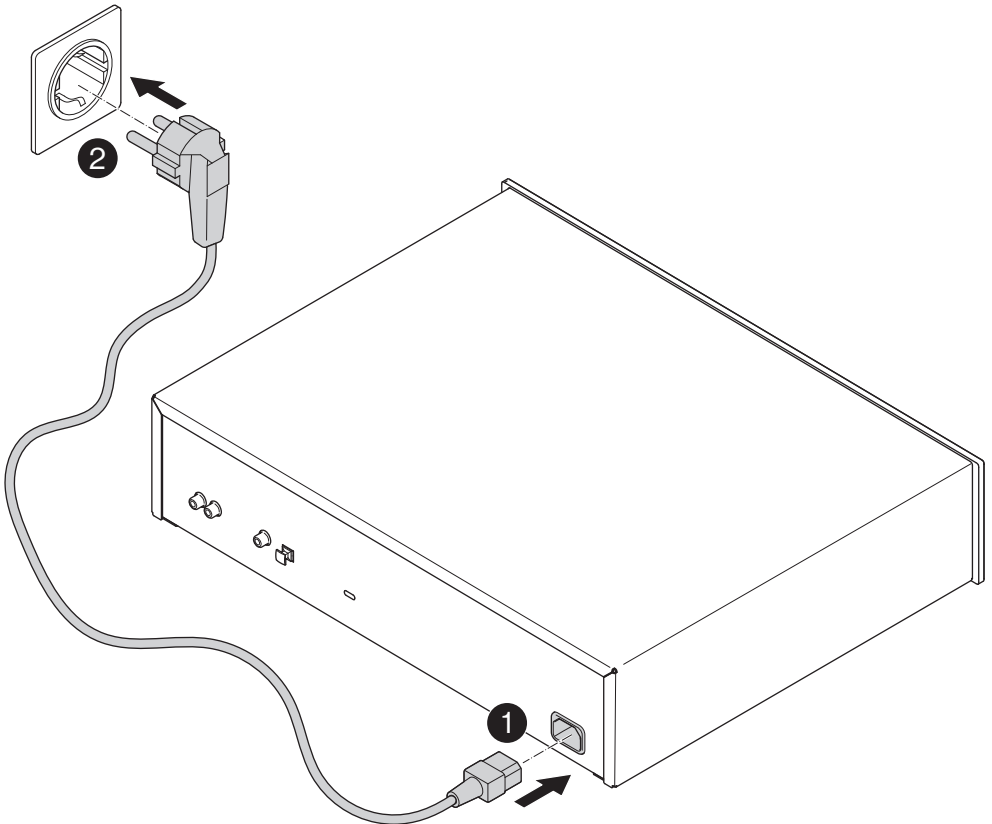
After all connections are ready, you can connect the Device to the AC power source.

Step 1


Connect the power cord to the AC IN terminal.

Step 2

Connect the power cord to the AC power source.




Operation

Before operating the device, make sure that all the connections are ready and the Device is turned on.  p. 7.

Loading and unloading a disc

Step 1

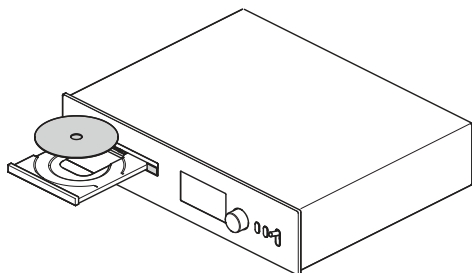
Press the  (Open/Close) button. The disc tray will open.

Step 2

When the disc tray is fully open, remove the remaining disc (if there is one).

Step 3

Place a disc carefully in the tray with the label side facing up.




Step 4

Close the tray by pressing the  (Open/Close) button or by pushing the tray.

NOTICE

- Do not put anything except a Compact Disc into the tray. Foreign objects may damage the mechanism.
- Do not force the tray by hand during the opening and closing operations.
- To avoid dirt and dust entering the mechanism, keep the disc tray closed.
- If the Compact Disc is seriously scratched or too dirty the player may not be able to read it or play it.
- Never load more than one disc into the disc tray at one time.

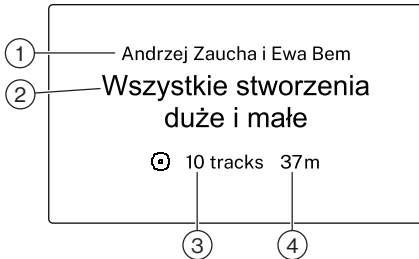
NOTE

Pressing the  (Play/Pause) button when the tray is open will close it and start the playback directly.

Disc playback

Album info / stop screen

This screen appears when the disc is loaded correctly or the playback is stopped.




- ① Artist's name
- ② Album's title
- ③ Album play time
- ④ Number of tracks

NOTE


The album info will appear only if there is CD-Text data stored on the disc.

Start playback

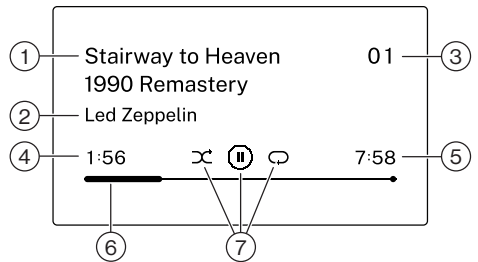
Step 1

Load the disc.  p. 16. When the disc is loaded correctly, the album info / stop screen will appear.

Step 2


Press the  (Play/Pause) button to start the playback.


Playback screen



- ① Track's title
- ② Artist's name
- ③ Track's number
- ④ Elapsed time
- ⑤ Track's total time
- ⑥ Progress bar
- ⑦ Playback mode indicators

Pause playback

During playback, press the  (Play/Pause) button to pause. Pause will be represented with the playback mode indicator.

To resume press the  (Play/Pause) button again.

Skip tracks

To skip tracks rotate the control knob or use the remote control when on the playback screen.

- ▶▶ Skip to the next track
- Rotate the knob one step right
- or press ▶▶ key on the remote control.


-
- ◀◀ Skip to the previous track
 - Rotate the knob one step left
 - or press ◀◀ key on the remote control.

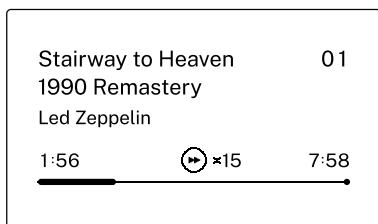
Scan forward and backward

To scan through tracks, at the same time press and rotate the control knob. Alternatively, use the keys on the remote control.

- ▶▶ Scan forward
- Press the control knob and rotate it right at the same time
- or press and hold ▶▶ key on the remote control.

-
- ◀◀ Scan backward
 - Press the control knob and rotate it right at the same time
 - or press and hold ◀◀ key on the remote control.

Scanning and it's speed (x5, x10, x15) will be represented with the playback mode indicator.  p. 17.



NOTE

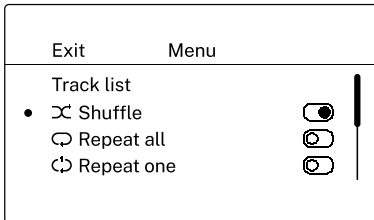
You can control the scanning speed (x5, x10, x15). More you rotate the control knob (3 steps available), the scanning is faster.

Shuffle/repeat playback mode

To activate or deactivate shuffle or Repeat playback mode, enter the menu (▶ p. 20.), select the desirable mode and press ENTER.

⌘ Shuffle	To playback tracks in a random order.
↻ Repeat all	To repeat the album playback as long as the mode is on.
↻ Repeat one	To repeat the currently played track as long as the mode is on.

When the selected mode is on, the toggle switch will change to the active state. All playback modes that are turned on will be represented with the playback mode indicators. ▶ p. 17.



NOTE

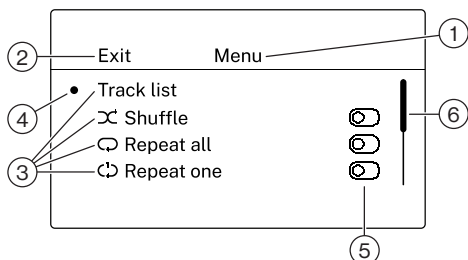
- Repeat all and repeat one cannot be turned on at one time. Activating one automatically deactivates the other.
- Loading a new CD or restarting the Device deactivates the shuffle and repeat modes.

Stop playback

Press the ■ (Stop) button to stop the playback.

Navigating the menu

Menu screen



① **Header**

② **Exit/Back**

③ **Menu items**

④ **Indicator**

Indicates the selected list item.

⑤ **Toggle switch**

To indicate the state of the setting – on or off.

⑥ **Scroll bar**

To visually help navigating between pages.

NOTE

The first 4 menu items are not visible when a disc is not loaded.

Navigating the menu

To enter the menu from playback screen and album info / stop screen

- press the control knob (ENTER)
- or press the ENTER key on the remote control.

To go up the menu list

- rotate the control knob left
- or press the ◀◀ key on the remote control.

To go down the menu list

- rotate the control knob right
- or press the ▶▶ key on the remote control.

To choose the selected list item

- press the control knob (ENTER)
- or press the ENTER key on the remote control.

To go back or exit the menu

- select Exit/Back on the menu list (top and the bottom of the list) and press ENTER
- or press the BACK key on the remote control.

NOTE

In case of no activity for 1 minute the menu will close automatically.

Track list

Track list is an album overview. It allows for easy and fast track selection from the list.

Enter the menu and select Track list (Menu/Track list) from the list or rotate the control knob on the album info / stop screen.

The currently played track will appear in bold text. To choose a track to play select it on the list and press ENTER.



NOTE

The Tracks' titles will appear only if there is CD-Text data stored on the disc.

Settings

Display brightness

To adjust the Display brightness or turn it off.

Enter the menu and select Brightness (Menu/ Brightness) from the list.

To select display brightness rotate the control knob or use ◀ ▶ keys on the remote control and press ENTER.



You can also use the DIMM key on the remote control to adjust the brightness without entering the settings from the menu.

NOTE

You can use the DIMM key on the remote control to adjust the brightness of other Unitra devices. To synchronize the brightness of all the Unitra devices, press and hold the DIMM key on the remote control. The brightness of all the devices is automatically set to 0.

Disc backlight

To indicate presence of the disc in the tray.

Enter the menu and select Disc backlight (Menu/ Settings/Disc backlight) from the list.

To activate or deactivate the disc backlight, press ENTER. The toggle switch will change it's position accordingly.

NOTE

The disc backlight indicates the presence of the disc in the tray. If the disc is not loaded, you may not see the effect of changing this setting directly.

Auto standby

To automatically switch the unit to the STANDBY mode if is not operated for specified amount of time.

Enter the menu and select Auto standby (Menu/ Settings/Auto standby) from the list. Select the setting from the list and press ENTER.

Off	The Device will not switch to the standby mode automatically.
30 min	The Device will automatically switch to the STANDBY mode after specified amount of time.
60 min	
90 min	

Auto standby

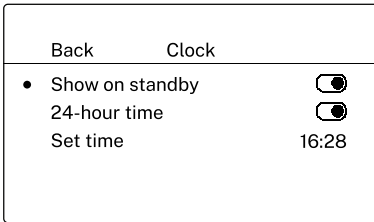
- OFF
- 30 min
- 60 min
- 90 min

Standby clock

Current time can be displayed on the screen when the Device is in the STANDBY mode.

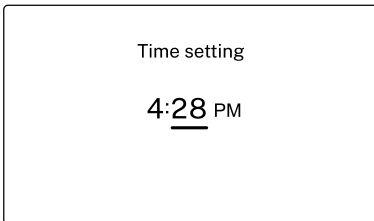
Enter the menu and select Clock (Menu/Settings/Clock) from the list.

Show on standby	To activate the clock on the STANDBY mode display.
24-hour time	To activate the 24-hour time format. If deactivated, the 12-hour format is activated.
Set time	To set the time.



Set time

To set time enter the menu and select Set time (Menu/Settings/Clock/Set time) from the list. To set the time rotate the control knob or use ◀▶ keys on the remote control. Press ENTER to move the next value and confirm.



NOTE

24-hour time and Set time are only visible when Show on standby is on.

Language

To select the Device interface language.

Enter the menu and select Language (Menu/Settings/Language) from the list. Select the language from the list and press ENTER.

Firmware update

To update the firmware of the Device you will need:

- a computer with access to the Internet,
- USB-C cable to connect Device to the computer (not included).

Step 1

Download to your computer the newest firmware file (.uf2) from www.unitra.com.


Step 2

On the Device, enter the menu and select Firmware update (Menu/Settings/Firmware update) from the list.

NOTE

Press any other button than ENTER to cancel the firmware update.

Step 3

Connect the computer to the Device with the USB-C cable to the SERVICE socket.  p. 8.

Step 4

On the Device, press ENTER to proceed the update. The Device will switch to the firmware update mode. On the computer, the Device will show up as a mass storage called "RPI-RP2".

NOTE

Since this step, the interactions on the Device are locked.

Step 5

On the computer, copy the firmware file (.uf2) directly to the "RPI-RP2" mass storage. When the file is copied, the update will start automatically. After successful update the device will restart.

NOTICE

Do not unplug the USB cable or power cable during the firmware update.




NOTE


- If the Device is not visible on your computer as a mass storage, check the cable connection and make sure you pressed ENTER to proceed the update on the Device (**Step 3**).
- If the update did not finish successfully after 2 minutes, unplug the AC cable and plug it again.

Troubleshooting

Most difficulties in audio systems are the result of incorrect connections, or improper control settings. If you encounter problems, isolate the area of the difficulty, check the control settings, determine the cause of the fault and make the necessary changes.

If you are unable to get sound from the Device, refer to the suggestions for the following conditions:

Problem	Cause	Remedy
The power does not turn on.	The power cable is not connected to the AC IN connector on the rear panel or is not connected to an AC power source.	Make sure that the power cord is properly connected to the power source. After that, disconnect the power cord from the power source, wait for at least 5 seconds and connect the power cord again.  p. 15.
The player does not read the disc.	The disc is loaded upside down.	Place the disc with the label facing up.
	The disc is dirty or scratched.	If the disc is dirty, clean the surface of the disc. Do not use scratched, damaged or warped discs.
	The disc is empty.	A blank disc has been loaded. Load a prerecorded disc.
The disc is skipping.	The disc is dirty or scratched.	If the disc is dirty, clean the surface of the disc. Do not use scratched, damaged or warped discs.
	The player isn't placed on a firm surface and is subject to vibrations.	Place the unit on a stable surface to avoid vibration and shock.
The amplifier or DAC does not receive the signal.	The amplifier or DAC is not set correctly.	Make sure that the amplifier or DAC is set correctly.
	The cables to the amplifier or DAC are not connected properly.	Make sure that cables from the Device to the amplifier or DAC are connected properly.
"Unsupported Disc" is displayed.	The disc is not compatible with the unit.	Check formats supported by this unit in the technical specifications.  p. 27.
CD-Text is not displayed.	No CD-Text data stored on the disc.	
Some CD-Text characters are not displayed correctly.	The Device cannot display some characters.	To display CD-Text correctly, use records with CD-Text containing Latin characters only.
The Device automatically switches to STANDBY mode.	The auto standby is on.	To disable auto standby mode go to Settings (Menu/Settings/Auto standby).  p. 22.

Problem	Cause	Remedy
The remote control doesn't work properly.	There is a problem with the battery.	Make sure that the battery is installed with the correct polarity (+/-). Replace the battery with a new one.  p. 11.
	The distance between the remote control and the Device is too high or there is an obstacle between them.	<ul style="list-style-type: none">• Make sure that the distance between the remote control and the Device is less than 6m away.• Make sure that there are no obstacles between the remote control and the Device (e.g. cabinet doors).

Technical specifications

Drive	TEAC CD5020B-AT
Supported Media	CD / CD-R / CD-RW
Supported Audio Formats	CD-DA (CD-Audio) WAVE, MP3 (after future software update)
Display	E Ink (3,69", 480×280 px, monochromatic)
DAC	Texas Instruments PCM5102A
Frequency Response	7 Hz – 20 kHz
Total Harmonic Distortion plus Noise	0.004%
Dynamic Range	92 dB
Channel Separation	90 dB
Signal-to-Noise Ratio (SNR)	91 dB
Output Level	2100 mV _{RMS} 3000 mV _{MAX}
Dimensions (Width × Depth × Height)	440 × 355 × 143 mm
Mass	6.9 kg
Electrical ratings	230 V AC, 50 Hz, 9 W
Energy consumption (standby)	0.5 W
Indoor/outdoor use	Indoor use only
Insulation category	Class II
EMC environment	Group 1 class B
Compliance	CE, UKCA, IEC 62368-1

Disposal

This Device is labeled in accordance with the European Directive 2002/96/EC concerning waste electrical and electronic equipment (WEEE).

The Device or used and fully discharged batteries should not be disposed of with household waste. Since the transposition of Directive 2002/96/EC into the national law electric and electronic equipment must not be disposed of together with household waste and the user is obliged to dispose of a broken or redundant electrical or electronic device at a dedicated collection point, put it in a special container, or possibly return it to the seller. When disposing of the device and batteries, comply with applicable local regulations. To ensure proper disposal of the device, contact a special disposal and recycling facility for electrical and electronic equipment. The address can be obtained from your environmental officer or city council.



The details are set forth in the relevant national laws. This obligation is indicated on the product packaging or in the manual in the form of a crossed-out waste bin. By sorting waste for recycling, you help to protect the

natural environment.

Appendix

Licensing

Font used in the Device interface: Public Sans.

Copyright 2015 The Public Sans Project Authors (<https://github.com/uswds/public-sans>)

This Font Software is licensed under the SIL Open Font License, Version 1.1.

This license is copied below, and is also available with a FAQ at:

<http://scripts.sil.org/OFL>

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

PREAMBLE

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