

OWNER'S-MANUAL

CD-PLAYER 102



Dear Audiophile,

Thank you for choosing this Burmester audio component. We sincerely appreciate your trust in us.

You have purchased a unit which excels in musical fidelity and combines uncompromising manufacturing quality with technical innovation and the highest degree of operating flexibility.

We recommend reading this user manual at least once in its entirety before initial operation. This will enable you to make full use of all capabilities of this outstanding audiophile instrument. Should you have any further questions, please contact your dealer or us directly.

Talk to us about your special requests, even if they seem out of the ordinary. We happily accept technically reasonable challenges.

Enjoy your enhanced listening pleasure.

Your Burmester Team

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INTRODUCTION

Please read the owner's manual carefully and keep it safely. If you have any questions, we ask you to contact your local authorized dealer.

Operating temperature An operating temperature that is too high or too low may cause malfunctioning. We therefore recommend letting the unit settle for a while after unpacking before connecting and operating it.

Setting up When choosing a place for your equipment please observe the following:

- Avoid direct sunlight.
- Do not expose the equipment to excessive heat, cold, humidity or dust.
- Provide adequate air circulation; avoid placing the equipment in enclosures.
- Slots and other openings in the housing are for ventilation. They must not be covered up.
- Please make sure that the component is not exposed to dripping water or splash water, also don't place boxes with liquid onto your component.
- Open flames like candles must not be placed on top of any electronic unit.

Mains voltage For AC connection please use only the three-pronged power cable provided. The grounding pin must not be bypassed under any circumstances. Connect the component only to a wall outlet with fully functional grounding pin. Since the power supply automatically adjusts to your ac mains voltage it is safe to use the 102 with every established mains voltage.

Comm. Operation Before installation switch off all other components of your hifi system. Switch them back on only after making sure that all connections have been made correctly and completely. Never try to operate the equipment when it has obviously been damaged or if liquid has gotten into it.

Terminals The pins of the connecting terminals on the back panel must not be touched under any circumstances. Static discharges may damage the electronic circuitry inside the unit.

Interconnects We supply custom-made balanced as well as unbalanced interconnect cables and speaker cables of any length to ensure highest-quality signal paths for our components. The impedance of our cables is ideally matched to all Burmester components. For the cleanest power supply we recommend our triple-shielded power cord Burmester-POWER.

IR receiver The IR receiver receives signals from the Burmester remote control and must not be covered up by any objects.

Heat development Be careful when touching the housing – it may get quite warm during operation.

Reset If the unit does not react when pressing the control keys on the front panel it may be reset to normal operation by switching it off and back on using the AC mains switch in the back.

Lightening strikes During the summer months, malfunctions often occur due to voltage spikes in the power lines after lightning strikes. Completely unplugging the power cord offers the only effective protection. Merely switching the unit off does not suffice since voltage spikes are able to arc over separated contacts.

Fuses The fuses are located inside the unit and should only be changed by a qualified technician.

Care Never clean the housing with a wet cloth or chemical cleaning agent. Always make sure that no liquid gets into the housing.



This symbol on the equipment points to important notes, which can be found in the owner's manual.



This symbol on or inside the equipment warns of dangerously high voltage.



If the unit and its accessories is to be put out of operation definitively, take it to a local recycling plant for a disposal, which is not harmful to the environment.



CAUTION: The unit must only be opened by qualified experts. Opening the unit provides the chance of encountering dangerously high voltage. Therefore the power cord must always be unplugged before opening the equipment.

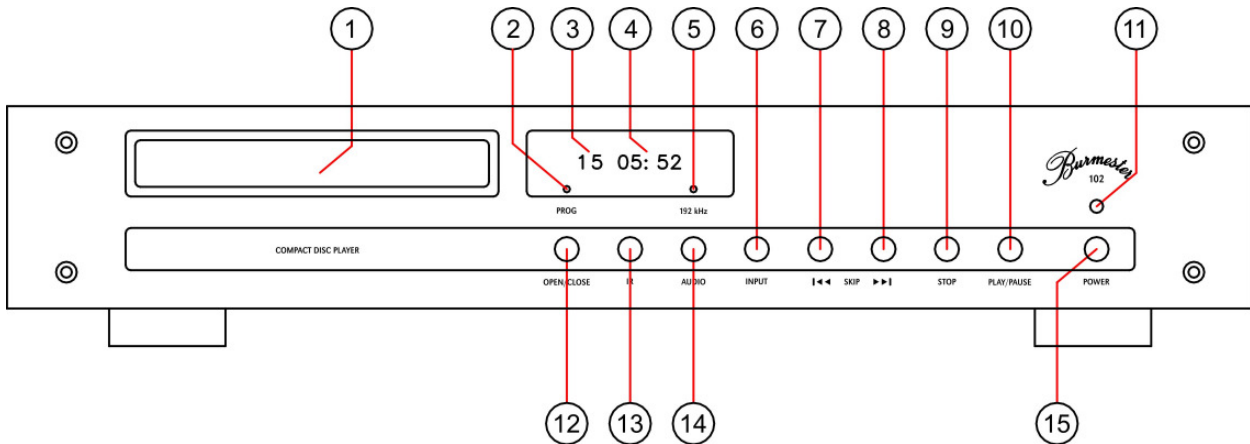
UNPACKING AND INSTALLATION

CAUTION: The CD player 102 is shipped inside a plastic protective cover. Make sure that children do not play with it to avoid the danger of suffocation.

- Unpacking** To avoid damaging the housing, please do not use pointed or sharp tools to open the box. Please make sure that the content of the box is complete. If something is missing or you notice any damage while unpacking, do not hook up the unit. Instead, contact your authorized dealer.
- Content of box** The box should contain the following:
- 1 CD player 102
 - 1 AC power cord
 - 1 remote control
 - 1 owner's manual
- Packaging** We recommend keeping the original packing in case the unit needs to be shipped in the future.
- Setting up** **Too low or too high temperatures may cause damage inside of the CD-Player. Therefore we recommend you leave the unit to adapt to room temperature, before using it for the first time.**
Carefully remove the unit from its packaging and set it up in an appropriate location. To protect the CD player 102 from overheating make sure that the location offers sufficient air circulation around the unit. Also, avoid excessive exposure to sun, dust and humidity. Please make sure that your desired location for the CD-Player is stable enough to carry its weight.
Ventilation ducts and openings in the housing serve to keep the unit cool. They must not be covered up with magazines, tablecloth, curtains etc.
If the CD player has to be operated in an extremely warm environment it may be necessary to supply additional ventilation. Avoid operating the unit in an excessively humid environment like bathrooms etc.

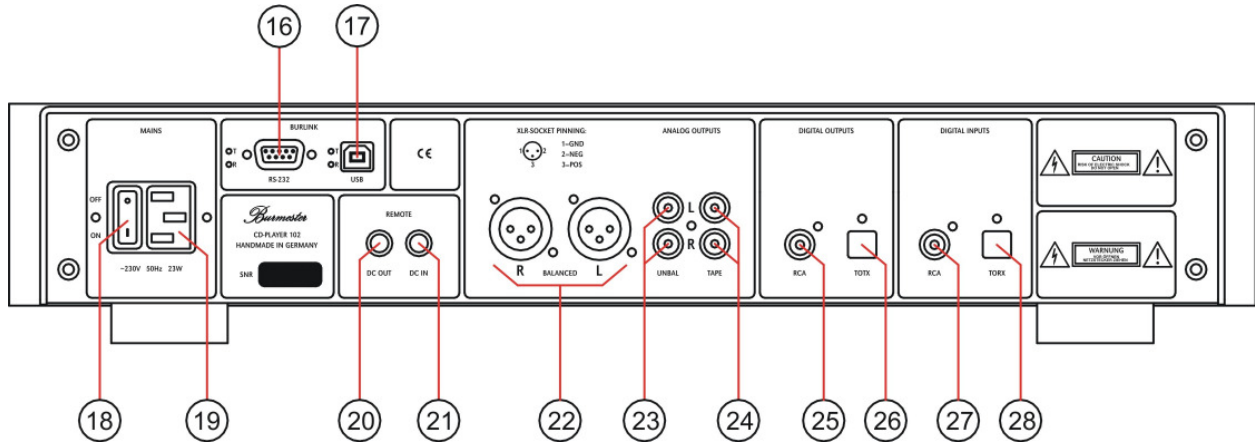
FRONT AND REAR VIEW OF THE 102

THE FRONT PANEL



- | | |
|---|---|
| (1) CD tray | (9) STOP button |
| (2) PROGRAM LED illuminates when a music program has been selected and saved | (10) PLAY/PAUSE button |
| (3) TRACK display indicates the current track | (11) Power LED |
| (4) TIME display shows time elapsed or remaining | (12) OPEN/CLOSE button for opening/closing the CD tray |
| (5) AUDIO LED shows upsampling of 192kHz | (13) IR receiver for remote control |
| (6) INPUT button for selecting the digital input | (14) AUDIO button for switching between 96 kHz and 192 kHz |
| (7) SKIP << button for selecting the previous tracks | (15) POWER button to switch the CD player on and off |
| (8) SKIP >> button for selecting the next tracks | |

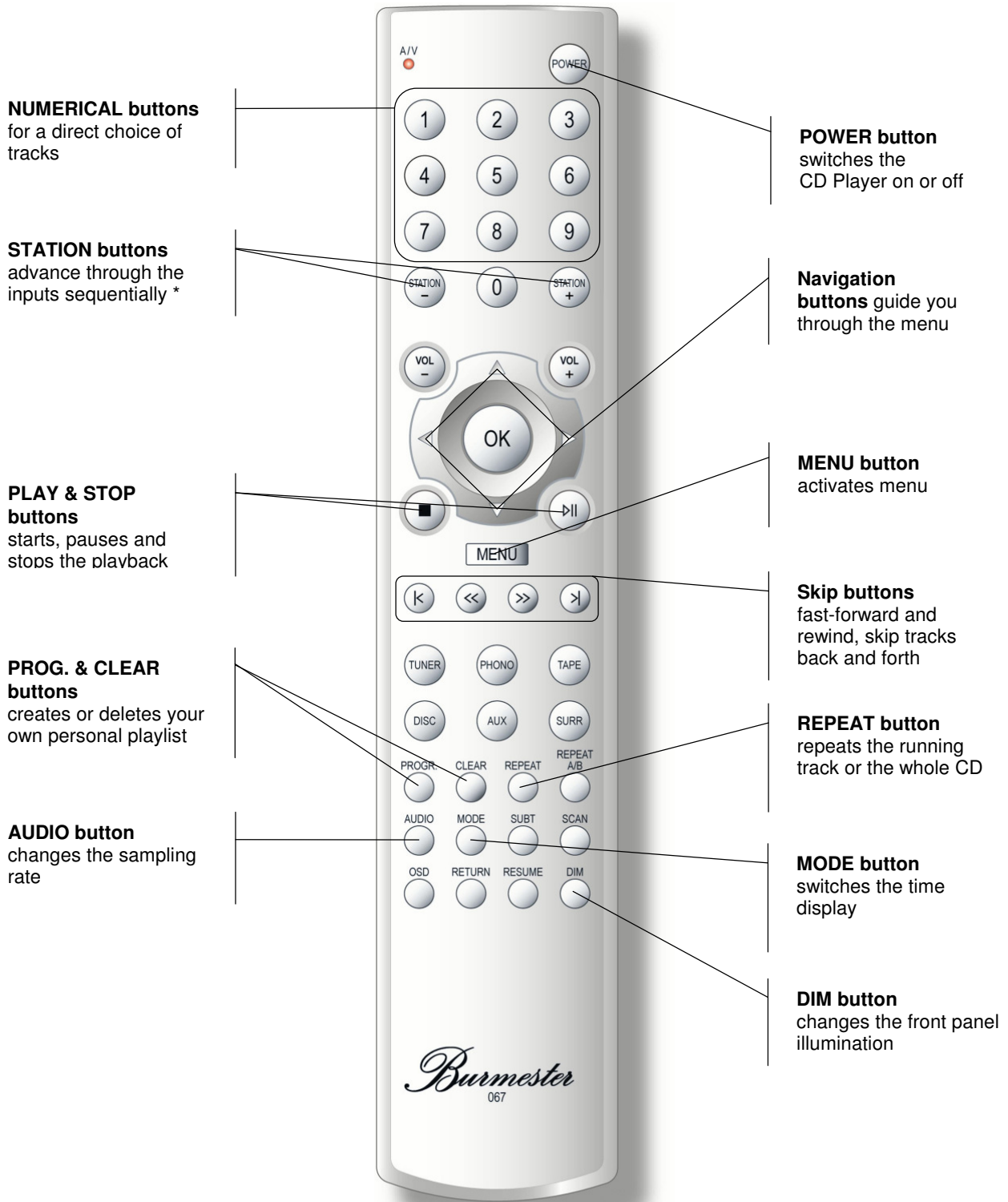
THE REAR PANEL



- | | |
|---|---|
| <p>(16) BURLINK interface RS-232 with check LEDs</p> <p>(17) BURLINK interface USB with check LEDs</p> <p>(18) AC mains switch</p> <p>(19) AC mains terminal</p> <p>(20) REMOTE output jack</p> <p>(21) REMOTE input jack</p> <p>(22) Analog audio output (balanced)</p> | <p>(23) Analog audio output (unbalanced)</p> <p>(24) Analog audio output (unbalanced)
for analog recording unit</p> <p>(25) Digital audio output RCA (75 Ω)</p> <p>(26) Digital audio output TOTX for optical cables</p> <p>(27) Digital audio input RCA (75 Ω)</p> <p>(28) Digital audio input TORX for optical cables</p> |
|---|---|

THE REMOTE CONTROL

All functions of the 102 may be controlled by remote. Just point the remote directly at the **IR sensor (6)** and press the according buttons.



* If this function has been activated in the menu

- POWER button** The **POWER** button switches the CD Player on or off, provided the AC mains switch on the rear panel has been switched ON.
- DIM button** Pressing the key **DIM** varies the brightness of the alphanumeric display in four steps between "max. brightness" to "off".
If brightness is selected to "off", the display will light up only when any controls are used to change settings. After a few seconds it automatically switches off again.
- REPEAT button** Pressing the key **REPEAT** once or several times causes a track or the complete CD to be repeated. The repeat mode is shown in the alphanumeric display:
- a simple arrow shows the repeating of one track
- a returning arrow shows the repeating of the complete CD
- MENU button** The **MENU** button activates and deactivates the MENU function.
- NUMERICAL buttons** With the **numerical buttons** 0 through 9, you can directly select the track of your choice. The playback of the selected track starts automatically.
- Navigation buttons** To navigate through the menu and select different options you may use the buttons ► ◀ ▲ ▼ and **OK** on the remote control of the 102. For details about using the menu please refer to the chapter SETUP MENU.
- PLAY/PAUSE ► ||** By pressing the **PLAY/PAUSE ► || button**, the playback of the inserted CD will start. The playback of the CD can be paused by pressing the **PLAY/PAUSE ► || button** again.
By briefly pressing the **PLAY/PAUSE ► || button**, the **CD tray (1)** will close automatically when opened.
- STOP ■** Pressing the button **STOP (9)** will stop playback of the CD. To restart the CD from the beginning, press the **PLAY/PAUSE** button.
- SKIP >|** By briefly pressing the button **SKIP >>| (8)** playback is advanced to the beginning of the following track. By pressing it several times you can skip ahead one step at a time.
- SKIP |<** By briefly pressing the button **SKIP |<< (7)** playback is returned to the beginning of the playing track. By pressing it several times you can skip back step by step.

- SEARCH >>** Briefly pressing the key **SEARCH >>** alternately activates the slow or the fast forward mode. To switch back to normal playback mode, press the key **PLAY/PAUSE ▶ ||**.
- SEARCH <<** Briefly pressing the key **SEARCH <<** alternately activates the slow or the fast backward mode. To switch back to normal playback mode, press the key **PLAY/PAUSE ▶ ||**.
- AUDIO button** With the **AUDIO** key you can choose the rate of the internal sample rate converter: 96kHz and 192kHz respectively. The setting to 192kHz will be shown by the light of the **AUDIO LED (5)**.
For the best sound we recommend the sample rate of 96kHz.
- PROGR.** With the key **PROGR.** you can activate or leave the mode to program a favourite track selection of a CD.
- OK button** This key confirms your selection of a track while programming a favourite track selection of a CD.
- CLEAR button** With the **CLEAR** button, you can delete an existing track program.
- MODE button** The **TIME display (4)** can be switched by pressing the **MODE** key between:
- showing the elapsed playing time of the current track
- showing the remaining time of the current track
- showing the elapsed playing time of the current CD
- showing the remaining playing time of the current CD
- STATION buttons** With the keys **STATION +** and **STATION –** you can select the external inputs **RCA** and **TORX** or the internal **CD drive**. The alphanumeric display will show the selected input. Input selecting with the **STATION** keys is only possible, when the menu item **RC-I** in the **SYSTEM SETUP** is set to ON.

All other keys of the remote control have no functions with respect to the 102 CD-Player.

- Battery Hazard** The remote control contains batteries. Do not expose them to excessive heat. Improper use may result in overheating, fire, explosion, smoke and gas. Have the batteries replaced by your dealer. Swallowing the batteries can be fatal! Always keep children away from small parts that can be swallowed!

FREQUENTLY ASKED QUESTIONS

What kind of sources can I connect to the inputs of the 102?

The **balanced output (22)**, as well as the **unbalanced outputs (23, 24)** can be connected to a preamplifier and a integrated amplifier.

Both of the 102's digital outputs can be connected to devices with digital inputs. Thereby, both of the digital outputs are delivering the data of the selected digital input.

How can I turn the 102 on and off?

The **AC mains switch (18)** needs to be set to ON to maintain the device's power supply. The **POWER button (15)** sets the device in two possible states:

1. When the **POWER-LED (11)** illuminates orange, the device is in Standby mode. By pressing the **POWER button (15)** or the Power button on the remote control, the device can be switched on.
2. When the **POWER-LED (11)** illuminates red, the device is switched on and ready. By pressing the **POWER button (15)** or the Power button on the remote control, the device can be switched off.

How can I choose the source for the 102?

You have the option to reproduce music by a CD or throughout one of the two digital inputs. By pressing the **INPUT button (6)** you can toggle between the three different input sources. With the **STATION +/- buttons** on the remote control, you can also toggle between the input sources, as far as the function is activated in the **MENU**. Please read the chapter **SETUP MENU** beginning on page 16.

What are the BURLINK interfaces for?

The BURmester-Link connections **RS-232 (16)** and **USB (17)** are for remote controlling the device via PC, Crestron™ or AMX™ systems. You can control all of the Burmester devices across this interface, so you do not need many different remote controls anymore. If you have questions regarding these systems, please ask your specialized dealer. You can find the Burlink commands on page 19.

TROUBLESHOOTING

The devices cannot be switched on:

Has the **AC mains switch (18)** been set to ON?

If the **Power-LED (11)** does not turn on, when the **AC mains switch (18)** has been set to ON, it is possible that a fuse inside of the device is broken. Please contact your specialized dealer.

If the **Power-LED (11)** is illuminating orange, but the device won't power on, it is also possible that one of the device's fuses is broken. Please contact your specialized dealer.

After the CD has been read-in, "NO CD" is shown in the display:

The 102 CD-Player is only capable of reproducing audio CDs. If you insert a CD, which the CD can not read, the message „NO DISC“ is shown in the display.

When I choose a digital input source, the name of the input is blinking in the display. Why?

If the input sources **RCA (27)** or **TORX (28)** do not have a valid signal (or do not receive a signal at all), the indicator will blink in the display. Possible sources of error can be:

- Is there a cable connected to the chosen input source at all?
- Is the device, which is connected to the 102's input, switched on and playing?
- Is the connected device delivering a valid S/P-DIF signal?

GETTING STARTED

CAUTION: Before connecting the unit please check if the input voltage of the 052 is equal to the local voltage of your wall outlet. Make sure the ground lead in your power outlet is working correctly. A missing or faulty ground is extremely dangerous!

- Connect the desired in- and outputs of the CD-Player with the other components of your playback system. For details please refer to the following chapter **CONNECTIONS**.

- Make sure the **AC mains switch (18)** on the rear panel has been set to OFF.

- Connect the power cord to the **AC mains terminal (19)** and plug the AC plug into the wall outlet.

- Switch the **AC mains switch (18)** on the rear panel to ON. After a second the **POWER LED (11)** will illuminate orange. The device is now in standby mode.

- Now you can switch the CD-Player on using the **POWER button (15)** on the front panel.

The following chapters of this Owner's Manual will provide detailed instructions about the extraordinary possibilities and capabilities of the 102 CD-Player.

CONNECTIONS

The connections of the CD-Player 102 are located on the rear panel of the device. During the connecting procedure all individual components of your playback system must be turned off.

There are various possibilities to connect the CD player, depending upon the kind of audio components and auxiliary devices used. For the best connections please also refer to the owner's manual of your audio components or auxiliary devices. The following explains the various hookup possibilities:

Digital Outputs

The player provides two digital outputs to connect to a digital amplifier:

The terminal **TOTX (26)** sends optical signals via optical cable with TOSHIBA-norm plugs. The terminal **RCA (25)** requires a 75ohms coax cable with RCA plugs. Choose whichever connection sounds best to you if your amplifier allows both types of hookup.

CAUTION: The terminal **RCA (25)** must not be connected to the analog input of an amplifier because this could damage the amp or the loudspeakers.

Digital Inputs

The CD player 102 offers two digital inputs for the connection of external digital source components such as DAT recorders or CD players:

The terminal **RCA (27)** receives electronic signals and require 75Ω coax cable with RCA plugs. The terminal **TORX (28)** receives optical signals and requires an optical cable with plugs according to TOSHIBA norm.

Choose whichever connection sounds best to you if your amplifier allows both types of hookup.

Analog Outputs

To connect an analog amplifier or receiver the 102 offers balanced as well as unbalanced outputs. If your amplifier or receiver provides balanced inputs connect them to the terminals **BALANCED R** and **BALANCED L (22)**. Unbalanced connections can be made using the terminals **UNBAL (23)**. An analog recording device may be hooked up to the terminal **TAPE (24)**.

For reasons of superior sound we recommend using balanced connections whenever possible.

The pinning of the balanced outputs are: **PIN1=GND, PIN2=NEG, PIN3=POS**.

Remote

Connecting **DC OUT (20)** to the corresponding **DC IN**-jack of another Burmester-unit offers to switch on or off this other unit simultaneous by the 052. In this case, 052 has the master function.

Connecting **DC IN (21)** to the corresponding **DC OUT**-jack of another Burmester-unit offers to switch on or off the 102 simultaneous by the other unit. In this case, 102 has the slave function.

BurLink

To the **BURLINK** interface plugs **(16), (17)** a computer system e.g. PC, CRESTRON™, AMX™ can be connected to the 102. The computer system allows a comfortable control of your High End system using for example an individual programmable touch panel. With the LEDs beside the plugs named **T** and **R** (**T**ransmit and **R**eceive) you are able to monitor whether data exchange is working.

You will find the commands to control the 102 CD-Player in the chapter **BURLINK**.

OPERATING AND CONTROL FEATURES

With the exception of the AC mains switch all operating controls are located on the front panel. To operate the unit it must be connected to the AC supply.

- AC mains switch** The **AC mains switch (18)** which turns AC power to the unit on and off is located on the rear panel next to the AC mains terminal. By switching to the ON position the transformer is powered up.
PLEASE NOTE: Always switch off the 102 with the **POWER button (15)** first before bringing the AC mains switch into OFF position.
- POWER button** The unit is switched on and off with the **POWER button (15)**, provided that the **AC mains switch (18)** is in the ON position.
In operating mode (ON) the alphanumeric display lights up and all functions of the CD player are activated.
- PLAY/PAUSE button** Pushing the button **PLAY/PAUSE (10)** starts playback of the CD. Playback of the CD can be interrupted by pushing the button **PLAY/PAUSE (10)** again.
- STOP button** Pressing the button **STOP (9)** will stop playback of the CD. To restart the CD from the beginning, press the PLAY/PAUSE button.
- SKIP >>| button** By briefly pressing the button **SKIP >>| (8)** playback is advanced to the beginning of the following track. By pressing it several times you can skip ahead one step at a time.
- SKIP |<< button** By briefly pressing the button **SKIP |<< (7)** playback is returned to the beginning of the playing track. By pressing it several times you can skip back step by step.
- INPUT button** Pushing the button **INPUT (6)** changes sequentially the digital signal source between the external inputs **RCA** and **TORX** on the back panel or the internal **CD transport**. The selected input is indicated in the alphanumeric display.
- AUDIO button** With the **AUDIO (14)** button you can choose the rate of the internal sample rate converter: 96kHz and 192kHz respectively. The setting to 192kHz will be shown by the light of the **AUDIO LED (5)**.
- OPEN/CLOSE button** The **CD tray (1)** can be opened by pressing the **OPEN/CLOSE button (12)**. The CD tray is completely opened, when the display shows **OPEN**. Now, you can insert a CD with the labeled side up into the CD tray. By pressing the **OPEN/CLOSE button (12)** again, the CD tray will close. After closing the CD tray, the CD's contents will be read (the display shows **READING**). After the reading process, the display shows the number of tracks as well as the total playing time of the CD.
If there is no CD in the CD tray, or the inserted CD is incompatible with the 102, the display will show the message **NO DISC**.

Display

When the internal CD transport is selected and a CD is playing, the alphanumeric display shows the current track of the CD in the **TRACK display (3)** and the playing time in the **TIME display (4)**.

The TIME display can be switched to

- lapsed time of the current track
- remaining time of the current track
- lapsed time of the CD
- remaining time of the CD

by pushing the MODE button on the remote control.

When an external digital input is selected, the alphanumeric display shows which input is chosen. When the input receives no valid data, the display will blink.

AUDIO LED

The **AUDIO LED (5)** illuminates, when the internal sample rate is switched to 192 kHz. When the light is not illuminated, the sample rate is set to 96 kHz.

PROGRAM LED

The **PROGRAM LED (2)** illuminates, when the PROGRAM function has been activated. (see chapter "HOW TO PROGRAM A FAVORITE TRACK SELECTION")

SETUP MENU

The SYSTEM SETUP menu of the CD player 102 allows the easy programming of certain basic settings.

All settings of the SYSTEM SETUP will be saved automatically after leaving the SETUP and remain after switching off the unit.

The SYSTEM SETUP can be operated by pressing **MENU** and the navigation keys **▲**, **▼**, **▶**, **◀** of the remote control.

Activating SETUP Press the button **MENU** to activate the SYSTEM SETUP. The alphanumeric display will show **SETUP** for approx. two seconds, followed by the first menu item.

Select menu item With the navigation keys **▶** and **◀** you can choose the menu item you want to change.

Change settings With the navigation keys **▲** and **▼** you change the setting of the selected menu item.

Leaving SETUP Pressing the key **MENU** closes the **SETUP MENU** and all settings will be saved.

Short description of the menu items which are explained more precisely on the following sites.

MENU ITEM	DESCRIPTION	DEFAULT
AUTO	The CD player automatically starts playback of the CD after closing the CD tray or after switching the CD Player on	OFF
SNR	Shows the type and the serial number of the unit, when item is set to ON	OFF
RC-I	Setting to YES makes it possible to switch the inputs with the buttons STATION+/- of the remote control	NO
DEFAULTS	Press the button OK , when you want to load the default settings	

AUTO

You can choose if the CD player should start playback directly after switching on the unit or after closing the CD tray.

- OFF** The unit reads only the table of content and remains in STOP mode.
ON The unit begins playing the CD directly after switching on.

SNR

You can choose, if the type and the serial number of the unit will be shown in the alphanumeric display after switching on the player.

- OFF** The type and the serial number will not be shown.
ON The type and the serial number will be shown after switching on.

RC-I

If you want to change the inputs of the CD player with the keys STATION +/- of the remote control, you should set this item to YES. If this item is set to NO, you can change the inputs with the INPUT buttons on the front of the unit only.

- NO** Change of inputs with the remote control is not possible.
YES Change of inputs can also be done with the remote control.

DEF

If you want to set all menu items to default, including the display brightness, you should press the key **OK** of the remote control after selecting this menu item. The alphanumeric display will show **CHANGED** to confirm the setting.

PROGRAMMING A FAVOURITE TRACK SELECTION OF A CD

A total of 50 tracks from a CD can be programmed for playback in a selected order. Programming can only be done using the remote control. The program plays the tracks in the selected order.

- Activation** To start the program function press the button **PROGR.** of the remote control. The alphanumeric display will show **PROGRAM** shortly and then starts the programming mode. The display shows now **P: 01 T: 00** whereby **P** stands for program space, **T** stands for the track which should be programmed on this program space.
- Arranging a program** The selection of a track will be done with the arrow button **▲** for the following tracks and **▼** for the previous tracks. Press the button **OK** of the remote control, if you got the desired track. This track will be saved on the selected program space. The display shows then **SAVED** to confirm the programming. Afterwards the following program space will be activated for programming.
- Selecting a defined program space** Press the key **◀** of the remote control. In front of the program space number an arrow **→** shows you that you can select a program space. The selection will be done with the arrow button **▲** for the following program spaces and **▼** for the previous tracks.
- Programming a track** Press the button **▶** of the remote control. In front of the track number an arrow **→** shows that you can choose a track for the selected program space. The selection of a track will be done with the arrow button **▲** for the following tracks and **▼** for the previous tracks. Press the button **OK** of the remote control, if you got the desired track. This track will be saved on the selected program space. The display then shows **SAVED** to confirm the programming. Afterwards the following program space will be activated for programming.
- Saving a program** To save your favorite track program and leave the programming mode press the button **PROGR.** of the remote control. If your programming is invalid, because the content of all program spaces is 00 for example, the **PROGRAM LED (2)** remains dark. If your programming is valid, the **PROGRAM LED (2)** will light up.
- Playback of a program** When you have left the programming mode and the **PROGRAM LED (2)** is on, you can start your favorite track selection by pressing the button **PLAY/PAUSE ▶ ||**.
- Deleting a program** A programmed track selection can be deleted by pressing of the key **CLEAR** of the remote control or by opening the sliding cover. If the program is cleared, the **PROGRAM LED (2)** turns dark. If you want to delete a program while being in the programming mode, you also have to press the button **CLEAR**. Afterwards the display shows **CLEAR?**. If you really want to delete the program, you have to press the button **OK**.

BURLINK

CONNECTIONS

The BURLINK interface can be accessed either by the 9-pin **D-SUB port (RS-232) (16)** or by the **USB port (17)**. Configuration of RS-232: 9600Baud, 8Bit, Parity: none, 1Stopbit, and no hardware handshake. Before using the USB port the appropriate drivers must be installed. The software for the USB port is compatible with the operating systems **WINDOWS 2000** and **WINDOWS XP**.

COMMANDS

Following are listed the possible commands to control the CD player 102. All commands needs to be sent in capital letters finished with a "carriage return" \r .

POWON\r	switches the unit on
POWOFF\r	switches the unit to standby mode
OPEN\r	opens the CD tray
CLOSE\r	closes the CD tray
PLAY\r	starts playback of the CD
PAUSE\r	pauses playback of the CD
STOP\r	stops playback of the CD
SKIPFW\r	skips forward to the following tracks
SKIPBW\r	skips backward to the beginning of the current and previous tracks
FORW\r	starts search forward (two steps: slow/fast)
BACKW\r	starts search backward (two steps: slow/fast)
KEY0 to KEY9\r	for direct track selection
REPEAT\r	switches on the repeat modes (Track, Disc) or off
CLEAR\r	deletes a favorite track selection program
AUDIO\r	switches between a sample rate of 96kHz and 192kHz
AUDIO96\r	switches to a sample rate of 96kHz
AUDIO192\r	switches to a sample rate of 192kHz
DMODE\r	switches the time display
INP+\r	switches the inputs of the CD player
INP-\r	switches the inputs of the CD player
DIM0\r	switches the display brightness to maximum
DIM1\r	switches the display brightness to middle
DIM2\r	switches the display brightness to low
DIM3\r	switches the display to off mode
DIM\r	switches the brightness step by step (0,1,2,3,0,1,2....)
TYPE\r	shows the type of the unit
VERSION\r	shows the software version of the unit

TECHICAL SPECIFICATIONS

Dimensions	Width x Height x Depth	482 x 95 x 320 mm (19.0 x 3.7 x 12.6 inches)
Weight		approx. 7,5 kg (16.5 lbs)
Mains voltage and fuses		
	all voltages	F5: slow 50mA E
	for 220V - 240V 50/60Hz	F4: slow 500mA E
	for 200V - 220V 50/60Hz	F2: slow 500mA E
	for 100V - 110V 50/60Hz	F1: slow 1A E
	for 110V - 120V 50/60Hz	F3: slow 1A E
Power consumption	ON	approx. 23 W
	STBY (Mains switch ON)	<1 W

PLEASE NOTE: The dimensions do not include the length of binding posts and the space needed for plugs of interconnect cables.

The technical data and design of this product are subject to change without notice.

SECURITY NOTICE

This unit contains a CLASS 1 LASER PRODUCT inside.



Do not look into the laser light, when the unit is powered up.