

# 820 SUPER AUDIO CD PLAYER

## Owner's Manual



**LINDEMANN.**  
*High Fidelity Excellence*

# Important Safety Precautions

- Use only an approved power cable and plug or distribution board to connect your player to a power outlet. Do not use an extension cable.
- Never touch the mains plug if your hands are wet.
- Do not attempt to open the equipment. The invisible laser beam in this compact disc player is harmful to the eyes. Refer servicing and repair to qualified service personnel. Touching live components inside the case can result in a fatal electrical shock!
- Read the Owner's Manual and Safety Precautions before operating the equipment.
- Keep this Manual in a safe place so that you can refer to it later.
- Please heed all warnings on the equipment itself and in the Owner's Manual.
- Please follow the instructions contained in your owner's manual and never use this equipment for any purpose other than is explained in this Owner's Manual.
- Only connect this equipment to a power source of the type described in the Owner's Manual and specified for this equipment.
- Make sure that there is adequate ventilation around the equipment to allow proper cooling. Keep the equipment away from direct sunlight. Avoid installing the unit close to sources of heat or in spaces such as bookshelves or cupboards where heat radiation may be obstructed. Avoid excessive temperatures in the room, as these could ultimately damage sensitive components and reduce the service life of your player.
- Never use the unit in damp rooms, at temperatures of below 10°C, or in the open air. When bringing your player in from the cold, allow it time to achieve room temperature before plugging it in.
- Always switch the unit off before removing or inserting interconnects. Doing this with the player switched on can damage not only the player itself but also equipment connected to it.
- If you ever spill water or any other liquid onto the equipment: Do not touch the case! Remove the plug from the wall outlet and contact your dealer or our service department.
- Never remove the earth connection from the plug. It is there to ensure your safety.
- Arrange the power cable so that no one can accidentally stand on it. Avoid locating it under objects that might put pressure on the cable. Pay particular attention to areas where the cable exits from plugs, AC outlets and from the unit itself.
- Never operate the unit without being present. Disconnect the plug from the wall outlet and remove all aerial connections (including cable aerials) when: you clean the unit, you do not expect to use the unit for long periods of time, during an electrical storm.
- If you have an external aerial or cable aerial connected to your hi-fi system, make sure that it is earthed. We recommend using a signal isolating filter.
- Problems: If you lose the sound while the player is operating, or if you notice smoke or burning, switch the unit off immediately and contact your dealer or our service department.
- Only replace defective fuses after you have traced and removed the cause of the fault and then only with a fuse of the same rating. Remove the mains plug before changing fuses. Use an insulated screwdriver to remove and replace the fuse.

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## CE declaration of conformity

LINDEMANN audiotechnik declares that this product complies with the Low Voltage Directive 73/23/EEC and the Electromagnetic Compatibility Directive 89/336/EEC, amended by the directives 92/31/EEC and 93/68/EEC.

## Dear Music Lover,

Congratulations on becoming the owner of this new SACD player. The 820 is an exclusive high-end audio component, built in Germany in limited quantities.

Our team designed this CD player to the highest standards so that you could enjoy the highest level of audio reproduction. Because we use only the finest components and the most modern production technologies, we confidently guarantee that our products will retain their superb qualities for many years.

LINDEMANN audiotechnik guarantees this product against defects in materials and workmanship for a period of 36 months from the date of original purchase.

To qualify for this extended manufacturer's warranty outside Germany, please contact the authorized LINDEMANN distributor in your country to register your device.

Keep the carton and packaging materials that your 820 came in. They will protect your CD player should you need to transport it in the future. Transporting the 820 in anything other than the original packaging may result in physical damage not covered by your warranty.

A final note: Please take the time to read this Owner's Manual before using the equipment for the first time. It contains a number of useful tips gathered from our many years of experience, which will help you get the most from your hi-fi system.

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## Accessories supplied

- 820 SUPER AUDIO CD PLAYER
- 800 ANALOG POWER SUPPLY
- Remote control
- Two type AAA batteries for the remote control
- Two 2-metre power cables
- SUB-D connection cable, 1 metre
- Owner's Manual
- Demo SACD
- Warranty card

We recommend that you keep the packaging for use when transporting the 820 in the future.

## 820 SUPER AUDIO CD PLAYER

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- Place your SACD player on a stable support and use a spirit level to make sure it is perfectly level. We recommend the use of a solidly constructed hi-fi rack with adjustable shelves. In our experience, you will achieve good results with racks using MDF shelves. Glass, metal or stone are less suitable for use as hi-fi equipment supports. Avoid placing the player close to loudspeakers or any other source of vibration. The 820 will respond to these measures by performing at its best. Never stack the 820 directly on other items of equipment. Vibrations from mains transformers and electromagnetic interference from other components can have a negative impact on the player's sound quality. Please do not place the outboard power supply next to the SACD player, but at a reasonable distance - close to the power distribution board is ideal.
- Take some time to organize your cabling. Try to keep power cables away from interconnect and speaker cables. Shielded power cords can significantly reduce the transfer of interference to your signal cables. The SUB-D cable provided is intended to link the outboard power supply with the SACD player. **Never** connect the SACD player and/or the ANALOG POWER SUPPLY to a computer or computer peripheral, as it will damage these components.
- Make sure that the polarity of the mains wiring is the same for all system components. You can achieve this by connecting all system components through a **single** high quality mains distribution board. The lower the contact resistance between the power outlets of your signal source and your amplifier, the less the audio signal will be polluted and the better your hi-fi system will sound. Ideal are power distribution boards with separate areas for analog and digital components. Connecting your components with the correct mains polarity is particularly important. Use a phase tester to determine which pole is positive. Mark the appropriate side. Connect the marked side of the 820 and ANALOG POWER SUPPLY power plugs to the positive conductor of your power outlet/distribution board.
- Cleaning and maintenance: To clean your CD player, use a soft cloth. Use a proprietary glass cleaner to remove stubborn dirt from the front panel. Do not use water! Never use solvents or white spirit. These will cause irreparable damage to the surface of the unit.

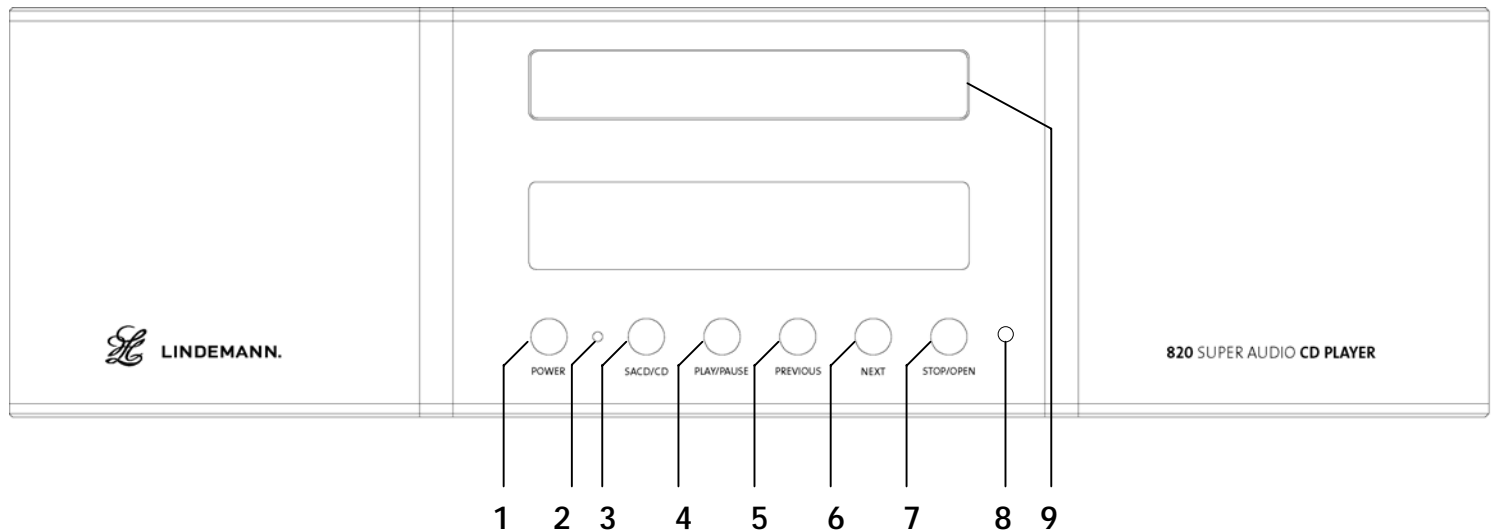
## Features

- **Exclusive stereo CD/SACD player**
- **High-resolution digital/analog converter** with outboard power supply. By operating the Burr Brown PCM 1792 in mono mode, this converter provides a previously unattainable quality of CD reproduction.
- **HiDRA (High Definition Re-sampling Architecture):** A unique circuit design, which - together with a high-precision master clock, a professional sample rate converter and an ingenious reclocking circuit - guarantees exceptional timing accuracy of the digital audio stream.
- **Super Balanced Signal Path:** All analog signal processing is fully balanced using components from the professional audio industry to avoid the sonic degradation of ground loop currents.
- **Comprehensive user controls:** Analog volume control, balance control, 4 digital inputs for data up to 192kHz/24-bit. Absolute phase and sample rate can be adjusted via the remote control.

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## Front view



1. Power button
2. Standby LED
3. CD/SACD button
4. Play/Pause button
5. Previous button
6. Next button
7. Stop/Open button
8. Infrared receiver
9. CD/SACD drawer

### Power button

The power button switches the player on and off. To switch the unit on, plug it into a power outlet and press the power switch on the rear panel (position I).

### Standby LED

When the 820 is in standby mode, the standby LED will illuminate. When the 820 is operational, the standby LED goes out and only the display illuminates. When you switch the unit off, the standby LED flashes for around 5 seconds. It is not possible to switch the player on again during this time. When the 820 has been unplugged from the wall socket, or when the power switch is in position 0, neither the standby LED nor the display will illuminate.

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## **CD/SACD button**

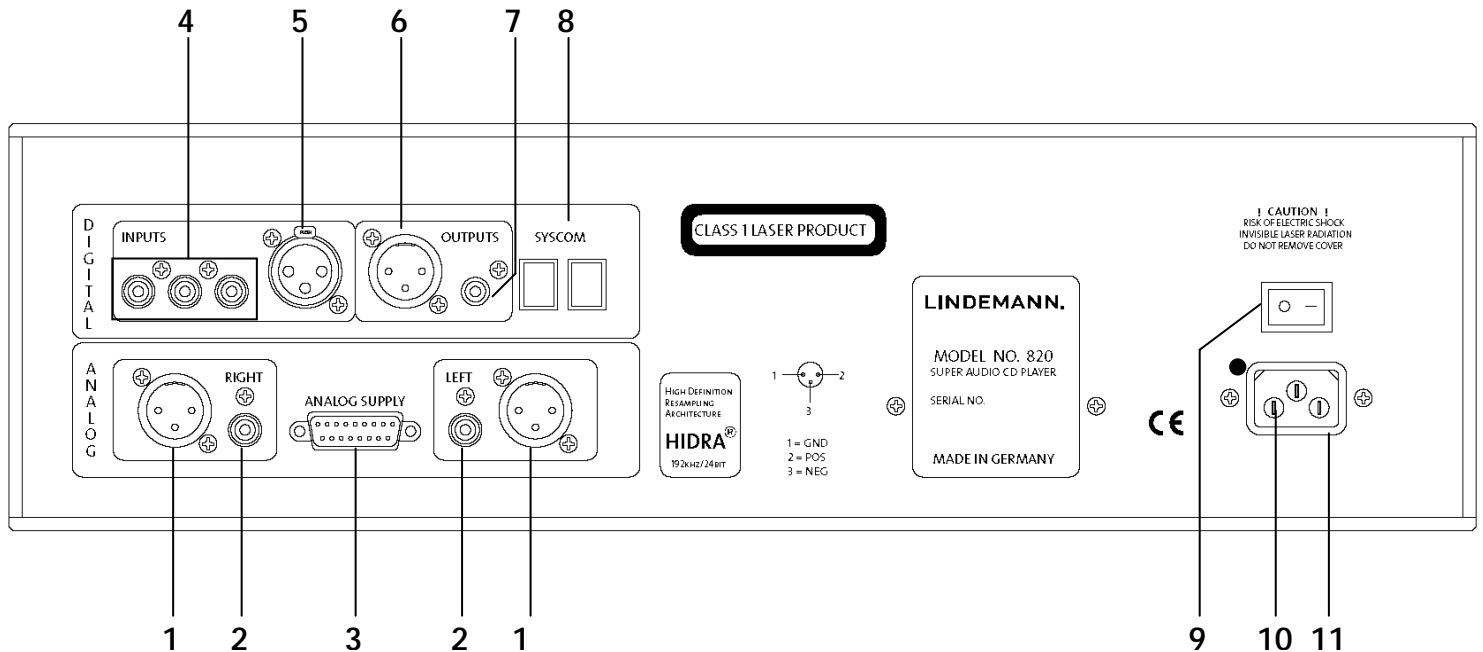
Allows you to change between the CD or SACD formats with hybrid SACDs. When you load a hybrid CD, the 820 automatically selects the SACD format. If you wish to play back the CD layer of the hybrid disc, press the STOP button and then the CD/SACD button.

## **Infrared receiver**

The infrared receiver picks up the commands sent from the remote control. For the remote control system to operate properly, you should ensure that there is a clear line of sight between the receiver and the remote handset.

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## Rear view



1. Analog output, XLR
2. Analog output, RCA phono
3. Input for analog power supply
4. Digital inputs, S/P DIF
5. Digital input, XLR (AES/EBU)
6. Digital output, XLR (AES/EBU)
7. Digital output, S/P DIF
8. SYSCOM
9. Power (on/off) switch
10. Positive terminal L
11. AC supply socket

## Analog output

The D 820 has both balanced (XLR) and unbalanced (RCA phono) analog outputs. Connect these to the appropriate inputs on your amplifier.

When inserting the cables, check that the plugs fit tightly in their sockets! Poorly fitting phono plugs can detract considerably from the sound quality of your system. Use gold-plated plugs whenever possible, as these have the lowest contact resistance.

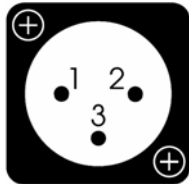
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## Digital output

The digital outputs carry a standard S/P DIF or AES/EBU 16-bit, 44.1 kHz signal for connecting to an external DAC digital clock signal processor. An RCA phono socket is provided for the coaxial S/P DIF output and an XLR socket for the AES/EBU output. **The digital output works only in CD mode.**

XLR pin connections:



- Pin 1: Ground
- Pin 2: Signal +
- Pin 3: Signal -

To prevent interference, use only a high quality digital cable of the correct impedance (phono = 75 ohm, XLR = 110 ohm).

## Digital inputs

The digital inputs accept standard S/P DIF and AES/EBU signals. They have been provided to allow you to connect external digital source equipment (DAT/DAB/MD/PC etc.) and will handle signals up to and including 192kHz/24-bit. RCA phono sockets are provided for the coaxial S/P DIF inputs and an XLR socket for the AES/EBU input.

XLR pin connections:



- Pin1: Ground
- Pin 2: Signal +
- Pin 3: Signal -

To prevent interference (especially with sample rates higher than 48 kHz), use only a high quality digital cable of the correct impedance (phono = 75 ohm, XLR = 110 ohm).

## Power connection

The power inlet is designed to take a removable IEC cable. We recommend you use a high quality audiophile power cable. Your dealer will be able to advise you!

## Power (on/off) switch

The on/off switch disconnects the 820 fully from the AC mains supply.

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## **Positive terminal L**

Connecting your components with the correct mains polarity is particularly important. Use a phase tester to determine which pole of the AC outlet (distribution board) is positive. Mark the appropriate side of the power outlet. Make sure that the marked side of the 820 and ANALOG POWER SUPPLY power plugs is connected to the positive conductor of your power cable.

## **Input for 800 analog power supply**

The 15-pin SUB-D connector for the analog supply voltage is for connecting the 800 ANALOG POWER SUPPLY only. Unplug both units from the AC mains supply before connecting the CD/SACD player to the outboard power supply.

## **SYSCOM**

This connection lets you network several 800 series products so that you can control the switching and display operation of several components from a single controller. To take advantage of this feature you need an appropriate power amplifier or preamplifier.

## Remote control

### 1. Power button

Switches the unit on and off from standby.

### 2. Track select buttons

Direct track selection.

### 3. Menu selection

#### AMP menu:

selects the menu for configuring the preamplifier functions.

#### DAC menu:

selects the menu for configuring the converter functions.

### 4. Mute

Silences the audio output.

### 5. Cursor

#### Normal operation:

UP/DOWN: Adjusting the volume +/-  
LEFT/RIGHT: Selecting the digital inputs  
OK: To confirm your setting

#### Menu selection:

UP/DOWN/LEFT/RIGHT: Selecting the menu items  
OK: Confirming your selection

### 6. Transport function

Please refer to 'Basic CD/SACD functions'

### 7. Additional functions

#### Info:

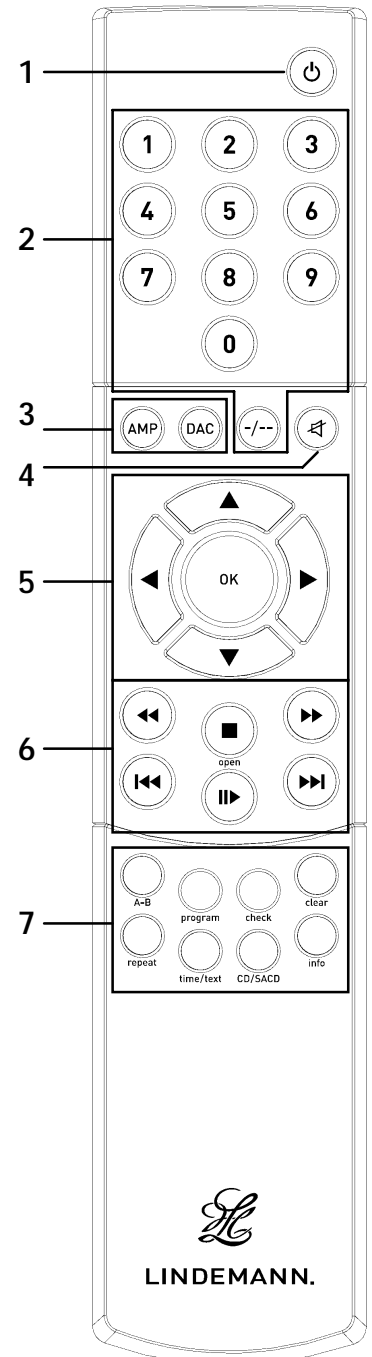
When you press the INFO button, the display will show all important basic settings.

These settings are:

- Current volume level
- Play/Pause
- CD/SACD
- REPEAT
- Input Sample-Rate -> DAC Sample-Rate

#### program/ check/ clear

For programming the order of tracks. Please refer to 'Program play'.



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**time/text:**

Changes the CD/SACD information display format. See 'CD TEXT'

**A-B:**

Repeating a section.

**Repeat:**

Repeating a track or an entire CD/SACD.

**CD/SACD:**

Changing from CD to SACD format, and vice versa.

When using the remote control, always point it directly at the player. Please remember that direct sunlight or artificial light (particularly fluorescent lighting) can affect the signal.

Weak batteries will considerably reduce the range of the remote control. Always replace batteries with new ones of the same type.

To change the batteries, open the battery compartment cover on the rear of the remote handset. Take out the discharged batteries and replace them with new ones of the same type (Alkaline AAA), making sure that they are positioned as shown on the drawing in the battery compartment.

Please dispose of your used batteries carefully. Stores that sell batteries often provide containers for recycling used batteries. You can also dispose of them at your nearest recycling centre.

## Setting up

- Turn the power switch to its **off** position (on rear panel).
- Remove the transport screw from the bottom panel. Then remove the protective strip from the CD drawer. Retain the transport screw and the protective foil strip with your packaging. These will be needed if you wish to transport the 820 at some time in the future.
- **Always protect the player well before transporting it.** To do this, proceed as follows: Close the drawer. Insert the foil strip in the gap between the drawer and the front panel. Turn the player over so that it is standing vertically on its rear. (Place it on a soft surface such as a carpet or tablecloth to avoid scratching the surface of your player). Tighten the transport screw in the hole in the bottom panel. Use *hand pressure* only. Do not use tools to tighten the screws!
- Connect the SACD player to the outboard power supply using the SUB-D cable supplied. Connect the D 820 to your amplifier using a suitable interconnect cable. Only now should you plug your SACD player and outboard power supply into the AC outlet - preferably using a high quality power cable. The cables supplied with your player are just to get you started. We strongly recommend that you use a high quality power cable. Make sure that the voltage shown on the model identification plate matches the voltage of your mains supply. If you intend to swap interconnects at any time in the future, always remember to switch the player off first. Failure to do so could damage the unit.
- For safety reasons, the remote control is supplied without the batteries installed. Please insert the batteries supplied, observing the polarity marks shown on the battery compartment.
- We have provided controls on the front panel to allow you to access the important control functions of the 820. The remote control allows you to access these and all the other functions of the unit.
- Turn the SACD player on using the on/off switch on the rear panel. Your SACD player is now in standby mode and ready for use. This is indicated by the blue Standby LED.

## Basic CD/SACD functions

### Switching on and off

To switch the unit on, press the Power button on the front panel or on the remote control.

To switch the player off, press the Power button again. This will switch the SACD player into standby mode. You will see this message in the display: *Power Down...*

This will disappear after a short interval. The blue standby LED will flash for about 5 seconds. It is not possible to switch the player on again during this time.

Use the Power button to switch the unit on and off in everyday use. When the SACD player is connected via the SYSCOM cable to a Lindemann power amplifier, the Power button will also control the power amp.

### Loading a CD/SACD

Press the STOP/OPEN button to open the CD drawer. Wait until you see *OPEN* showing on the display. Now place a CD or SACD in the drawer. The printed label side must be at the top.

To close the drawer, press the STOP/OPEN button again. The drawer will retract.

If you fail to press the STOP/OPEN button within a minute, the drawer will close automatically.

As the player reads the contents of the disc, the display window reads: *TOC Reading...*

Once the player has scanned the CD/SACD, it displays the number of tracks, the total playing time and the CD Text.

If you have loaded a hybrid disc, the SACD track will be selected automatically.

### Playing the disc

Press the PLAY/PAUSE button to play the CD/SACD. The track number, the index and the playback time will be shown in the display. If the disc supports CD Text, the title is also displayed.

### Switching between CD and SACD

With hybrid discs you can choose to play either the standard CD or the SACD version. To change from SACD to CD and vice versa, first press the STOP/OPEN button to stop playback. Then press the SACD/CD button to get the player to rescan the disc. The playback format of the track being played appears in the display. (If you wish to hide this information, you can do so via the Display menu)

## Stopping playback

Use the PLAY/PAUSE button to pause playback. Press the PLAY/PAUSE button once again to resume. Press the STOP/OPEN button to stop playback. If there is no CD/SACD in the player, or if playback has finished, press the STOP/OPEN button to open the drawer.

## Playing a specific track

You can play a specific track by entering its number on the numeric keypad (1-9). Use the -/-- button to enter numbers larger than 9. For example, if you wish to play track 21, first press the -/-- button, then 2 and then 1.

## Skip/Search

The SKIP button lets you go skip one or more tracks. Press the ►► button on the remote control, or the Next button on the front panel, to play the next track. Press the ◀◀ button on the remote control, or the Previous button on the front panel, to go back to the beginning of the track you are currently playing. You can skip through several tracks by pressing the button repeatedly.

The SEARCH buttons ►► ◀◀ on the remote control allow you to locate a specific place within a track.

## Repeat

The REPEAT button lets you repeat individual tracks, a complete CD, or specific sections. Press the REPEAT button once to repeat the entire CD.

The display shows: *< Repeat >*

Press twice to repeat the last track played.

The display shows: *< Repeat 1 >*

To cancel the REPEAT function, press the REPEAT button again.

The display shows: *< Repeat off >*

**Display Info** in the configuration menu provides you with an option to show or hide Repeat in the display.

## Repeating a section

You can repeat a specific passage within a track using the A-B button. A refers to the beginning and B to the end of the passage.

- Press the A<->B button as soon as you reach the section of music that you wish to repeat.
- You will see this message in the display: *Repeat A*.
- The flashing **A** warns that you still have to set the finish point **B**.
- Press A<->B again when you reach the end of the passage that you wish to repeat. The passage you have selected will now be repeated continuously until you press the REPEAT button again.

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## Program play

You can programme the order in which the tracks of a CD/SACD are played.

When the player has read the contents of the CD/SACD, press the PROGRAM button. Use the numeric keypad (1-9) and the - /- button to enter the number of each track you wish to play. Enter the tracks in the order in which you wish to listen to them. The tracks will be stored automatically. The display will show the number of tracks entered and the total playing time for the playlist.

You can store up to 32 tracks in one playlist. If you wish, you can store the same track several times in the same playlist.

Use the CLEAR button if you wish to delete the last track you entered. You can press the CLEAR button as often as you like to remove any number of tracks from your list, starting from the end of your programme. Hold the CLEAR button down for longer than 3 seconds to clear the entire playlist.

You can check the contents of your playlist using the CHECK button. Each time you press the CHECK button, the number in the display advances by one track (starting from the beginning of the playlist) and shows the total playing time to date (up to the current track).

After programming your playlist, press the PLAY/PAUSE button to listen to your selection.

## CD Text

CD Text contains information about the CD/SACD such as the title or the name of the artist. This data is stored in an area of the CD/SACD that is not used on 'normal' CDs.

When you load a CD/SACD containing text information, the player reads this information and displays the album title. To display the artist's name, press the TIME/TEXT button on your remote control. Pressing the TIME/TEXT button again displays the total playing time and number of tracks.

The display shows the name of the current track while the CD/SACD is playing. Pressing the TIME/TEXT button brings up the playing time of the current track, the playing time of the whole CD/SACD and the remaining playing time of the CD/SACD.

When a track or artist name has more than 12 characters, the display shows the first 12 characters and then scrolls to the end of the name.

During playback of CD/SACDs with no CD Text content, only the time information is displayed.

## Basic preamplifier functions

The 820 is a fully-featured preamplifier incorporating a precision analog volume control that can also be used for the digital inputs. The preamplifier function may be switched off for the balanced (XLR) analog outputs via the Direct Output option in the menu.

When an 800-Series power amplifier is connected via the SYSCOM input, the on/off switch on the 820 will also switch the power amplifier on and off.

### Adjusting the volume

Use the UP or DOWN buttons on the remote control to set the volume level. The speed at which the volume changes depends on how long you press the UP/DOWN button. You can adjust the volume in 192 discrete 0.5 dB steps. As you do so, the display shows the current volume setting in figures or dBs (depending on your settings) for several seconds. You may reduce the display time by pressing the OK button.

You have reached the lower volume adjustment limit when you see *min* in the display. The display shows *max* to warn you that you have reached the upper volume limit.

0 dB is the maximum volume value in the default setting.

### Balance

You will find a description of how to set the balance in **Configuration Menus - Balance**.

### Mute

The user-configurable Mute feature is activated by pressing the MUTE button on the remote control. The default setting is -50 dB. To cancel the mute setting, press the MUTE button again or adjust the volume control.

### Digital inputs

The 820 has four digital inputs. These accept external digital sources and process them via the 820's DAC. To select a digital input, press the LEFT or RIGHT button on the remote control. When you select a digital input, its name (configurable), together with the sample rate of the input signal and the current sample rate of the DAC (configurable) are shown in the display.

*INPUT1* Sample rate of the digital input > Sample rate of the DAC

If you select an input to which no source component is connected, or if the source is not supplying a signal, *Unlock* appears in the display. If the source supplies a non-valid data signal such as a compressed format or Dolby Digital or DTS, *Non Audio Data* appears in the display.

The volume control and mute functions are also available in the Input mode.

To return to the CD/SACD mode, skip through the digital inputs. CD/SACD mode is after input 4 or before input 1.

## Configuration menus

The 820 provides many adjustment options in addition to the basic controls. You can access these via two menus. The AMP menu contains the preamplifier settings and the DAC menu contains the settings for the D/A converter. To open a menu, press the AMP or DAC button. To browse a menu, use the UP or DOWN buttons. Press the OK button to change a setting.

The available settings are shown as follows:

### AMP

- Balance
- Volume Display
- Max. Volume
- Mute Level

### DAC

- Absolute Phase
- Digital Output
- DAC Sample Rate
- Display Info
- Digital Input Name
- Direct Output
- Brightness
- Reset to Default

## Balance

Adjusting the balance using the LEFT or RIGHT button. The balance can be adjusted to the left or to the right in ten steps. The centre is the neutral setting. One step alters the balance by 0.5 dB. The maximum available adjustment is  $\pm 5$ dB. To confirm a change, press the OK button or wait for about 10 seconds.

## Volume display

Adjusting the volume display mode using the LEFT or RIGHT button. In the **Numeric** mode, the volume level is displayed within a range of 0 to 95.5. In the **Decibel** mode, the volume level is displayed within a range of -95.5 to - 0 dB. You can switch between these using the LEFT or RIGHT button. To confirm a change, press the OK button or wait for about 10 seconds.

## Max. Volume

Max. Volume allows you to limit the maximum output level of your system. Set the maximum volume in 0.5 dB steps using the UP or DOWN button. To confirm a change, press the OK button or wait for about 10 seconds.

## Mute Level

Set the mute level in 0.5 dB steps using the UP or DOWN button. To confirm a change, press the OK button or wait for about 10 seconds. You cannot set the mute level higher than the current volume setting.

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## Absolute Phase

Certain recordings sound better when you change the polarity of the audio signal, although the difference is minimal with most recordings.

Set the phase of the analog output signal to 0° or 180° using the LEFT or RIGHT button. To confirm a change, press the OK button or wait for about 10 seconds.

## Digital Output

You can switch the digital output on or off using the LEFT or RIGHT button. To confirm a change, press the OK button or wait for about 10 seconds.

**The digital output is only available in CD mode.**

## DAC Sample Rate

You can set the internal sample rate with the LEFT or RIGHT button. The sampling frequency may be 44.1 kHz, 88.2 kHz or 176.4 kHz. To confirm a change, press the OK button or wait for about 10 seconds.

## Display Info

Setting of the default display information. You can choose to show PLAY/PAUSE, REPEAT or CD/SACD permanently in the display. To select the information you wish to display, press the UP or DOWN button. You can alternate between "Display Yes / No" using the LEFT or RIGHT button. To confirm a change, press the OK button or wait for about 10 seconds.

Even when the display is switched off, you can view all the default information for a few seconds by pressing the INFO button on your remote control.

## Digital Input Name

You can assign whatever name you wish to the digital inputs. Select the desired input (1-4) by pressing the LEFT or RIGHT button and confirm by pressing OK button. An A< will now appear in the display, at which point you can enter the name you wish to use. Use the UP or DOWN button to select the letters (A - Z, spaces and numbers 0 - 9). Use the LEFT or RIGHT button to move to the letter you wish to change. Names may be up to 8 characters in length. Once you have completed your entry, confirm it with the OK button.

## Direct Output (analog)

You can switch the direct output on or off using the LEFT or RIGHT button. When the direct output is on, the volume control is bypassed and all related controls such as balance, mute and max. volume are deactivated. This means that the full signal level is available from the outputs when switching.

**The Direct Output option applies only to the balanced (XLR) outputs. The volume control for the RCA outputs cannot be bypassed!**

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## **Display Brightness**

When you use the 820, its display is set to maximum brightness. After about 20 seconds, the display will change to the brightness setting you have specified from this menu. To avoid wearing out the display prematurely, do not set the display brightness too high.

You can choose three brightness levels (75%, 50% or 25%) using the LEFT or RIGHT button. To confirm a change, press the OK button or wait for about 10 seconds.

## **Reset to Default (factory settings)**

Use this option to restore the configuration menu to the standard settings. To do this, press the LEFT and OK buttons to confirm *Yes* when you see the reset warning message.

## The different CD formats

The 820 plays compact discs (CD), CD-recordable discs (CD-R), and Super Audio Compact Discs (SACD). These bear the symbols:



**Super Audio CD** uses the DSD recording process. Unlike 'normal' CDs, which are based on 16-bit PCM converter technology, SACDs employ a 1-bit A/D converter during the recording process that operates at a sampling frequency of 2.8224 MHz - 64 times higher than CD. During recording and playback, SACDs high resolution datastream does not require the use of filters that may degrade the sound. Because of this, it is possible to reproduce frequencies up to 100 kHz, which not only makes the reproduction of high frequencies more natural but also delivers a noticeably superior sound stage. The technology also offers a greater dynamic range.

Because of differences in the quality of blank discs, it is possible that some **CD-Rs** might not be readable. Lindemann audiotechnik cannot guarantee that the player will read **CD-RWs** (re-writable CDs) perfectly. However, tests with a number of CD-RW brands have shown that very good results are possible.

### Handling compact discs

**Please follow these guidelines.**

- Never subject CD/SACDs to high temperatures or leave them in direct sunlight. They may warp.
- Try to hold the CD/SACD only by its edges. Dirt, writing, scratches or adhesive labels can impair the reproduction quality of CD/SACDs and even render discs unplayable.
- We strongly recommend you avoid CD/SACD 'tweaking' using methods such as adhesive rings, felt pens and polishing. Such tweaks can damage your CD/SACDs and make them unplayable.
- Because of the high rotational speed of an SACD, never use CD mats or similar. They can result in damage to the transport mechanism.
- Use a dry, soft cloth to wipe dust and fingerprints from the surface of discs. Wipe from the centre to the outside edge without applying pressure. Never use chemical cleaning agents.

## Troubleshooting

### **The display is dark and the unit does not work:**

- The 820 is in standby mode. -> Press the POWER button
- The 820 is not connected to a power outlet, or the power switch (on the rear panel) is in the 'off' position. -> Plug the 820 into a power outlet and switch the unit on.

### **The display illuminates but there is no sound:**

- The outboard power supply is not plugged in or it is not properly connected to the SACD player. -> Switch off the player, connect the outboard power supply, and switch the player on again.
- The volume level is inadequate. -> Turn up the volume.
- The unit is in mute mode. -> Press the MUTE button.
- The Max Volume setting is too low. -> Increase the *Max Volume* setting in the configuration menu.
- The 820 is in the digital input mode and there is no output. -> Switch to CD/SACD mode.

### ***No Disc* is showing in the display:**

- There is no CD/SACD in the machine. -> Load a CD/SACD
- The CD/SACD has not been placed correctly in the drawer. -> Place the CD/SACD in the drawer with the label side up.
- The CD/SACD is badly scratched or damaged.

### **The unit does not respond to the remote control.**

- The remote control batteries are discharged or have been inserted incorrectly. -> Change the batteries.
- The distance, or angle, between the remote control handset and the 820 is too great.
- The IR receiver on the 820 is obstructed. -> Make sure that there is clear line of sight between the remote control and the IR receiver.

## Specification

Measuring conditions: 20°C, 230V supply voltage.

Dimensions.....	440 x 135 x 345 mm (W x H x D incl. feet)
Weight.....	13 kg
AC supply.....	230V 50/60Hz
Power consumption.....	15 W maximum
Power consumption in standby (incl. ANALOG POWER SUPPLY).....	12W

### CD converter

S/N (A-weighted).....	-124dB
THD & noise (quantization).....	-99dB
Frequency response.....	0Hz – 22,000 Hz (-3dB)
Dynamic range.....	125 dB
DAC.....	24-bit, 192 kHz

### SACD converter

S/N (A-weighted).....	-124dB
THD & noise (quantization).....	-106dB
Frequency response.....	0Hz – 38,000 Hz (-3dB)
Dynamic range.....	144 dB

### Analog outputs:

#### Unbalanced

Output voltage.....	2.0 V
Output impedance.....	100 ohms

#### Balanced

Output voltage.....	4.0 V
Output impedance.....	100 ohms

### Digital outputs:

#### Coaxial, SPDIF

Output voltage.....	0.5 V pp
Output impedance.....	75 ohms

#### Balanced, AES/EBU

Output voltage.....	5 V pp
Output impedance.....	110 ohms

# 820 SUPER AUDIO CD PLAYER

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## Digital inputs:

### Coaxial, SPDIF

Input voltage.....	0.5 V pp
Impedance .....	75 ohms
Sample rate.....	32-192kHz
Bit range.....	16- to 24-bit

### Balanced, AES/EBU

Input voltage.....	5 V pp
Impedance .....	110 ohms
Sample rate.....	32-96kHz
Bit range.....	16- to 24-bit

## Volume control

Attenuation (max.).....	95.5 dB
Step size.....	0.5 dB
Channel balance.....	±0.05dB

Please note:

Our product policy is one of continuous development. Specifications are therefore subject to change without notice.