



D 680

Owner's Manual

LINDEMANN
audiotechnik

CE

Important Safety Precautions

- To connect your player to the mains, use only an approved power cable and a standard power socket or distribution board. Do not use an extension cable.
Never touch the mains plug if your hands are wet.
- Do not attempt to open the case. The invisible laser beam in this compact disc player is harmful to the eyes. Refer servicing to qualified service personnel. Touching live components inside the case can result in a fatal electrical shock!
- Read the Owner's Manual and the 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 Manual.
- Only connect the equipment to a power source of the type described in the Owner's Manual and specified for this equipment.
- Make sure there is adequate ventilation around the equipment to allow for 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 below 15°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 the 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 and where no objects can apply pressure to it. Pay particular attention to those places where the cable exits from plugs, mains sockets and from the unit itself.
- Never operate the unit without being present in the room. Disconnect the plug from the wall outlet and remove all aerial connections (including cable aerial connections) when: you clean the unit, you do not expect to use the unit for long periods, during an electrical storm.
- If you have an external aerial or cable aerial connected to your hi-fi system, make sure that the aerial is earthed. We recommend using an isolating filter.
- 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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High Definition Resampling Architecture is a registered trademark of Lindemann audiotechnik.

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Dear Music Lover,

Congratulations on becoming the owner of a D 680 CD player - 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 available today. 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.

Keep the carton and packaging materials that your D 680 came in. They will protect your CD player should you need to transport it in the future. Transporting the D 680 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, and should help you get the most from your hi-fi system.

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Components included

- D 680 SACD player
- POWER BRICK outboard power supply
- Remote control and battery
- 2 power cables
- USB cable
- Allen key
- Owner's Manual
- Warranty card

Placement and getting connected

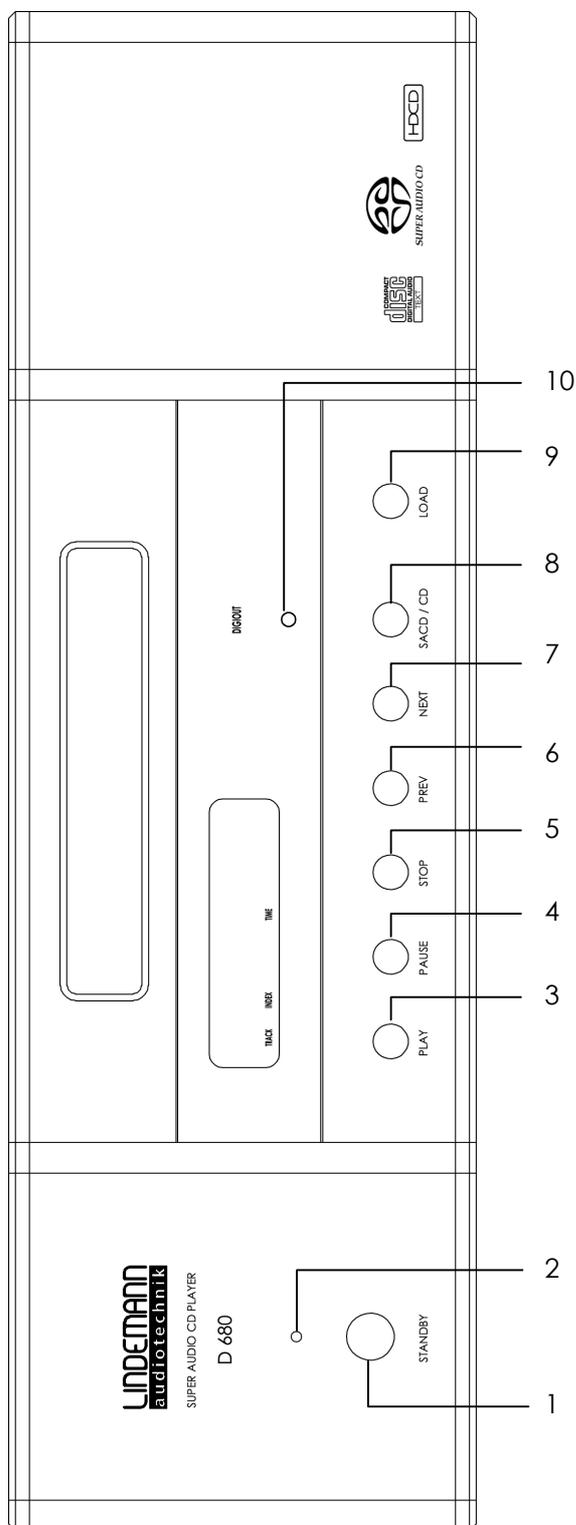
- Place your SACD player on a stable support and use a spirit level to make sure it is perfectly level. We recommend the use of a solidly constructed hi-fi rack with adjustable shelves. In our experience, you will achieve good results with racks using MDF shelves. Glass, metal or stone are less suitable materials for hi-fi equipment supports. Avoid placing the player close to loudspeakers or any other source of vibration. The D 680 will respond to these measures by performing at its best. Never stack the D 680 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 away – next to the mains distribution board is ideal.
- Take some time to organize your cabling. Try to keep power cables away from interconnect and speaker cables. Screened power cables can greatly reduce the transfer of mains pollution to the signal cables. The USB cable provided (computer cable) is intended to link the outboard power supply with the SACD player. **Never** connect the SACD player and/or the Power Brick to a computer or computer peripheral (printer/scanner etc.), as this will damage all the components connected.
- Make sure that the polarity of the mains connection 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 resistance between your signal sources and your amplifier, the less the audio signal will be polluted and the better your hi-fi system will sound. Connecting your components with the correct mains polarity is also important. Use a phase tester to determine which pole is positive. Mark the appropriate side of the mains plug. You should connect the marked side of the D 680 mains cable to the positive and POWER BRICK with the positive conductor.

Placement and getting connected

This equipment must be connected to an earth. Use only mains cables with an earth. Never use plugs or adapters without an earth connection.

- **Cleaning and maintenance:** To clean your CD player, use a soft cloth. Use a proprietary glass cleaner to remove 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.

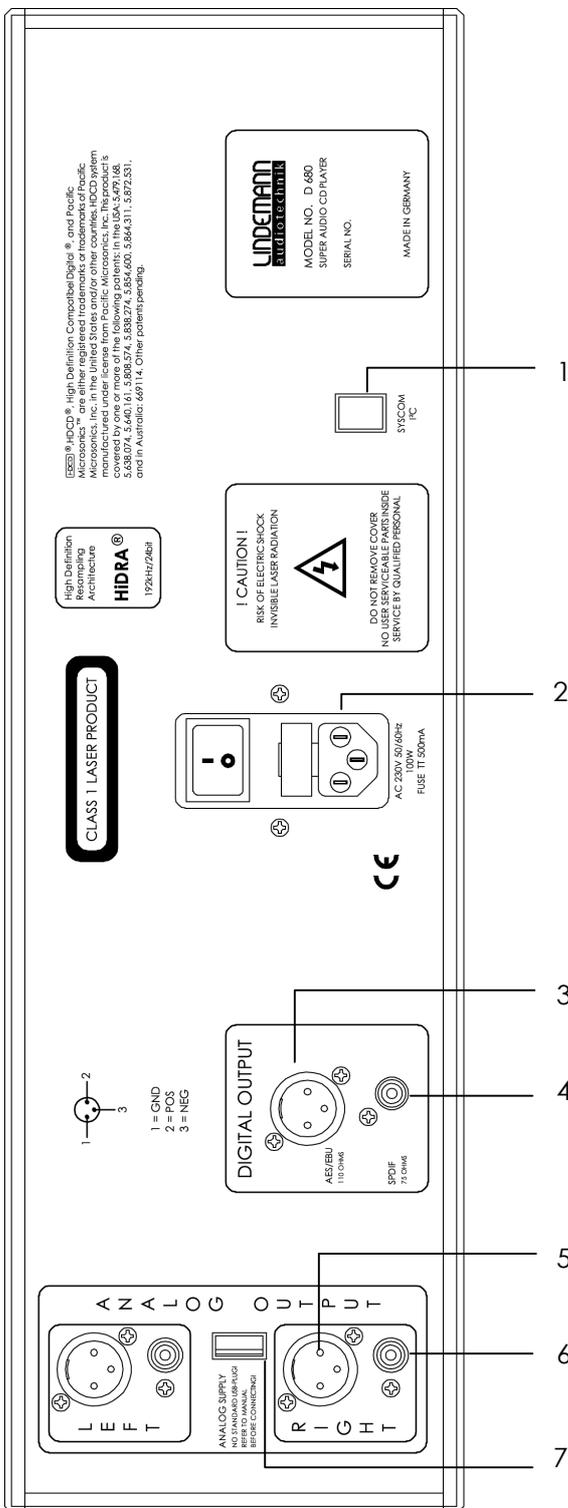
Controls and connections



The front panel

1. On/off switch
2. Standby LED
3. Play
4. Pause
5. Stop
6. Play previous track
7. Play next track
8. Switch between CD and SACD
9. Open/close CD drawer
10. Activate digital output

Controls and connections



The rear panel

1. SYSCOM
2. AC supply socket
3. Digital output (AES/EBU)
4. Digital output (SPDIF)
5. Analog output, XLR
6. Analog output, RCA phono
7. Power Brick input

Controls and connections

Analog output

The D 680 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 RCA 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.

Digital output

The digital outputs provide a standard SPDIF-AES/EBU signal for driving an external DAC. An RCA phono socket is provided for the coaxial SPDIF output and an XLR socket for the AES/EBU output. **The digital output works only in CD mode.**

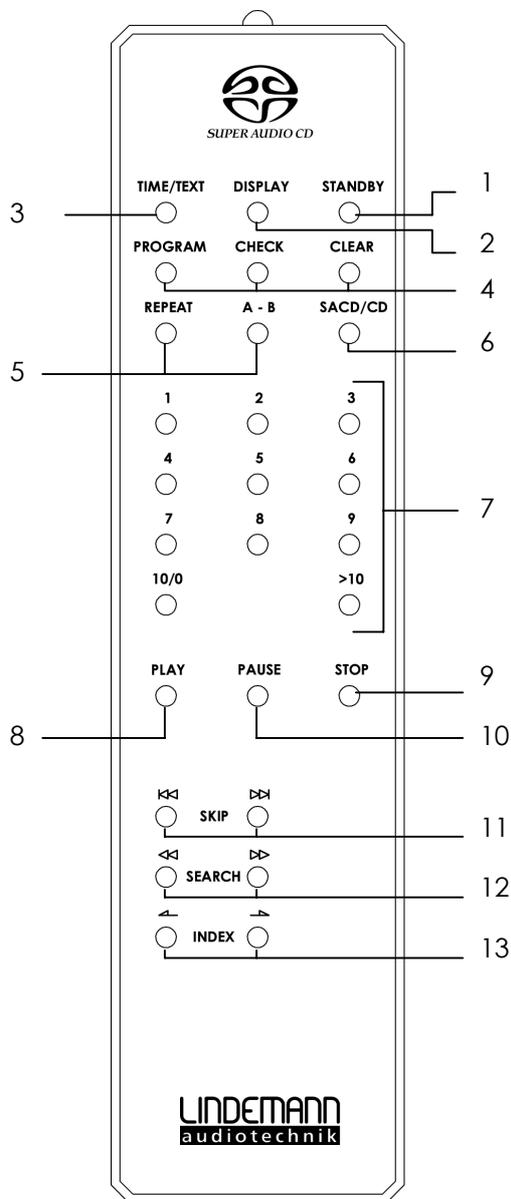
AC supply socket

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!

SYSCOM

This connection lets you network several Lindemann audiotechnik products, so that you can control the switching and display functions of several components with a single controller. To take advantage of this feature you need an appropriate amplifier.

Controls and connections



Remote Control

1. STANDBY button. Switches the player on and off
2. DISPLAY. Switches between 4 display intensity levels
3. TIME/TEXT. Switches the display between CD Text and time
4. PROGRAM function buttons
5. REPEAT function buttons
6. SACD/CD. Switches between CD formats with hybrid discs.
7. Track selector buttons
8. PLAY
9. STOP
10. PAUSE
11. SKIP. Moves through the tracks
12. SEARCH. Searches during playback
13. Index

Controls and connections

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.

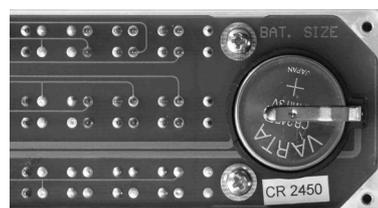
A weak battery considerably reduces the range of the remote control. Always replace the battery with a new one of the same type.

The remote takes a CR 2450 lithium button cell battery.

Please dispose of your used batteries carefully. Stores that sell batteries often provide containers for recycling used batteries. You will also find public disposal points that provide recycling facilities.

Fit the battery like this:

- Remove the rear cover by undoing the five Allen screws with the tool supplied.



- Place the battery (CR 2450) in the battery compartment as shown, with the + side at the top.
- Replace the cover and secure with the five Allen screws.

Setting up your SACD player

- Switch the on/off switch at the rear of the SACD player to **off**.
- Remove the red transport screws from the bottom panel. Then remove the protective strip from the CD drawer.
- **Always secure the player before you transport it again.** To do this, proceed as follows:

Close the drawer. Insert the foil strip (supplied) in the gap between the drawer and the front panel. Turn the player over so that it is standing vertically on its front panel. (Place it on a soft surface such as a carpet or tablecloth to avoid damaging the front panel). Insert the 2 red transport screws in the holes in the bottom panel. Tighten *by hand*. Do not use tools to tighten the screws!
- Connect the SACD player to the outboard power supply using the USB cable supplied. Connect the D 680 to your amplifier using a suitable interconnect cable. Only now should you plug your player and outboard power supply into the mains and switch it on. 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 battery installed. Please fit the battery supplied, as described in the section "Remote control and battery".
- We have provided controls on the front panel for important functions of the D 680. The remote control allows you to access these and all the other functions of the unit.

Setting up your SACD player

- Switch the SACD player on with 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.

Operation

Switching on and off

To switch the unit on or off, press the STANDBY button on the front panel or on the remote control. When there is no CD/SACD in the player, this is what you will see in the display:

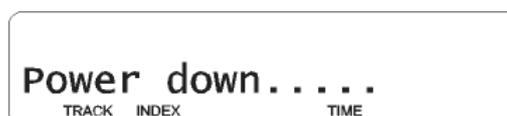


The unit now waits for you to place a CD/SACD in the drawer. If you do not load a CD/SACD, the No Disc message appears in the display after a short delay:



To switch the SACD player off, press the STANDBY button. The SACD player will switch to standby mode.

You will see this message in the display:



After a short time, the display goes out and the blue Standby LED lights up. In day-to-day use, you should use the STANDBY button to switch the unit on and off.

Operation

Playing a CD/SACD

Loading a CD/SACD

Press the LOAD button to open the CD drawer. You will see this message as the drawer opens:



And when the drawer is fully open:



Place a CD or SACD in the drawer. The printed label side must be at the top.

To close the drawer, press the LOAD button again. This completes loading of the disc. You will now see the Loading message in the display:



As the player reads the contents of the disc, the display window indicates:



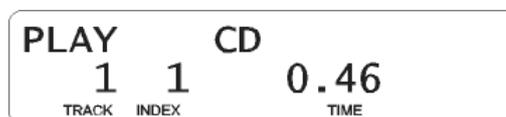
Operation

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

Playing the disc

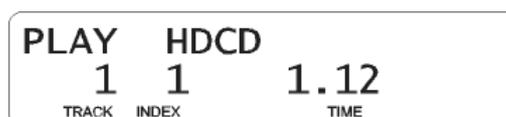
Press the PLAY button to play the CD/SACD.

The track number, the index and the playback time are displayed. If the disc supports CD Text, the title is displayed.



Switching between CD and SACD

With hybrid SACDs, you can select to play either the standard CD or the SACD version. To switch from one version to the other, first press the STOP button to stop playback. Then press the SACD/CD button to get the player to rescan the particular track. The format of the track being played appears in the display.



If a track has been recorded in HDCD format, the display informs you by displaying 'HDCD' as soon as the track starts playing.

Operation

Stopping playback

Use the PAUSE button to temporarily stop playback. Press the Play button to continue. The STOP button stops playback.

Playing individual tracks

Playing a specific track

Enter the track number using the numeric key pad (1-10). To enter numbers larger than 10, use the + 10 button. For example, if you wish to play track 21, first press the +10 button, then 2 and then 1.

Skip

The SKIP button lets you go directly to the beginning of the track after the one now playing.

Press the **▶▶** button once to go to the next track. Repeat the operation several times - or hold the button down - to skip several tracks.

Press **◀◀** once to return to the beginning of the track that is playing. To skip backwards through several tracks, press the button several times or press and hold.

The SEARCH buttons **▶▶◀◀** allow you to find a particular place within a track that is playing.

Operation

Repeating a CD/SACD or a particular section

Repeat

The REPEAT button lets you repeat individual tracks, the whole CD, or specific passages. Press the REPEAT button once to repeat the entire CD.

The display shows:



Press twice to repeat the last track played.

The display shows:



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

The display shows:



REPEAT 1 now disappears from the display.

Operation

Repeating a passage

You can repeat a specific passage within a track using the A<->B button. **A** denotes the beginning and **B** the end of the passage.

Press the A<->B button as soon as the section of music is reached that you wish to repeat. You will see this message in the display:



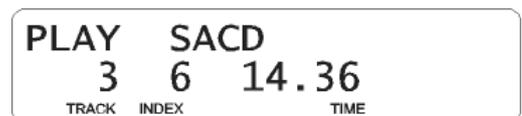
PLAY CD REPEAT
2 1 2.31
TRACK INDEX TIME

The flashing **A** indicates that the finish point **B** has not yet been set.

Press A<->B again as soon as you reach the end of the passage that you wish to repeat. The passage you select will be repeated until you press the REPEAT button again.

Index

If the CD/SACD contains INDEX numbers, you can select these with the INDEX button during replay or pause. The display shows the index number selected.



PLAY SACD
3 6 14.36
TRACK INDEX TIME

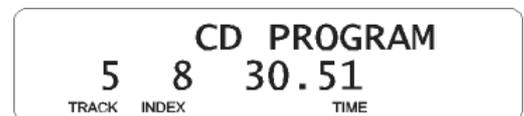
Operation

Programming

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. The display shows:



Use the numeric keypad (1-10) and the +10 button to enter the number of the desired title. Enter the tracks in the order in which you wish to play them. The tracks you enter in this way will be saved automatically. The display shows the last track number entered, the number of tracks already programmed (or index mark), and the total playing time of the programme.



You can save up to 32 tracks in one programme. You can store the same track several times in the same programme. Track numbers that exceed the number of tracks on the CD/SACD will be ignored.

Operation

The CLEAR button allows you to erase the last track you entered. You can press the CLEAR button as often as you like to remove any number of tracks from the list, starting from the end of your programme. Hold the CLEAR button down for longer than 3 seconds to clear the entire programme. The PROGRAM message disappears when the PLAY button is pressed.



You can check the contents of your programme 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 your playlist) and shows the total playing time to date (up to the current track).

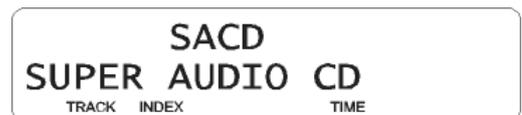
After entering your tracks, start play by pressing the PLAY button.

Operation

CD Text

CD Text CD/SACDs contain additional information such as the album title or artist names. This data is stored in an area of the CD/SACD that is not used on 'normal' CDs.

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



While the CD/SACD is playing, the name of the current track appears in the display. Pressing the TIME/TEXT button shows 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 the track or artist name has more than 12 characters, the display shows the first 12 characters and then scrolls through the complete name.

During playback of CD/SACDs without CD Text, only the time information is displayed.

Operation

Display brightness

The DISPLAY button provides four selectable display brightness settings.

Digital output

The D 680 has a digital output on the rear panel. This is normally switched off, but may be activated when required by pressing the DIGIOUT button on the front panel. The DIGIOUT display on the front panel lights up when the digital output is on. The digital output can only be switched on for playing CDs. If you try to activate the digital output with the DIGIOUT button when playing a SACD, you will see this message:



The different CD formats

The D 680 plays compact discs (CD), CD-recordable discs (CD-R), HDCD (High Definition Compatible Digital) encoded CDs and Super Audio Compact Discs (SACD). These bear the symbols:



Super Audio CD uses the DSD recording technique. During recording (unlike 'normal' 16-bit PCM CDs) a single-bit digital converter is used with a sampling frequency 64 times higher than normal (2.8224 MHz). During recording and playback, the high resolution of SACD's datastream means that it is no longer necessary to use filters that can degrade the sound. For this reason also, frequencies up to 100 KHz can be reproduced, creating a more natural high frequency sound with an improved three dimensional quality. This technology also gives a greater dynamic range.

The D 680 is equipped with an **HDCD** decoder. HDCD is a digital signal processing system developed by Pacific Microsonics in California that includes special codes in a very small portion of the recorded digital CD signalstream. An HDCD decoder recognizes these codes and uses them to process the digital audio signal in such a way as to achieve greater dynamic range and higher resolution, while remaining completely compatible with the existing CD format. The HDCD process has been used on a large number of CDs. Perhaps more important is the fact that the HDCD decoder's digital filter is far superior to that of most conventional digital filters, which benefits ordinary CDs, too.

The different CD formats

Because of differences in the quality of blank discs, some CD-Rs might not play correctly. Lindemann audiotechnik makes no claims that the player will read **CD-RWs** (rewritable CDs) perfectly. However, tests with a number of CD-RW brands have provided very good results.

Handling compact discs

Please follow these guidelines.

- Never place CD/SACDs close to extreme heat or in direct sunlight. They could warp.
- Try to hold the CD/SACD only by its edges. Dirt, writing, scratches or adhesive labels can impair the quality of reproduction of a CD/SACD and make it unplayable.
- We strongly recommend you avoid CD/SACD 'tuning' using methods such as adhesive rings, felt pens and sanding. These techniques can damage your CD/SACDs and make them unplayable.
- Because of the high rotational speed of an SACD, never use CD mats or similar. These can damage the drive.
- You may use a dry, soft cloth to wipe dust and fingerprints from the surface of CDs. Wipe from the centre to the outside edge, without applying pressure. Never use chemical cleaning agents.

Troubleshooting problems

- No sound.
The outboard power supply is not plugged in or there is a problem with the connection to the SACD player.
Solution: Switch off the unit, check and redo connections, switch unit back on.
- No power light showing on the outboard power supply.
Defective fuse in the power supply.
Solution: Replace with a fuse of the same type and rating.
- The unit does not respond to the remote control.
The battery in the remote is dead.
Solution: Fit a new battery.

Measuring conditions: 25°C, 230V supply voltage.

Dimensions.....450 x 165 x 360 mm (W x H x D incl. feet)
Weight 13 kg
AC supply230V 50/60Hz
Power consumption..... 30 W maximum
Power consumption on standby (incl. Power Bric) 6 W

DAC, CD

THD & Noise -92dB
THD & Noise (HDCCD) -98dB
Frequency response 0Hz – 44,000 Hz (-3dB)
Dynamic range.....120 dB
DAC 24-bit, 192 kHz

DAC, SACD

THD & Noise -101dB
Frequency response 0Hz – 44,000 Hz (-3dB)
Dynamic range.....130 dB

Analog outputs

Unbalanced

Output voltage2 V
Output impedance180 ohms

Balanced

Output voltage4 V
Output impedance360 ohms

Digital outputs

Coaxial, SPDIF

Output voltage0.5 V pp
Output impedance75 ohms

Balanced, AES/EBU

Output voltage5 V pp
Output impedance110 ohms

Please note:

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